

# A Complete Bibliography of Publications in *Journal of Fish Diseases* (2010–2019)

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## Title word cross-reference

–20 [HPAL10]. –80 [SG12]. 2 [HST+13].  $N^{438A}$  [CGW+19].  $\mathbf{1}$  [BSD+18d].  $\mathbf{18}$  [LZZN10].  $\mathbf{4}$  [LZZN10].  $\alpha$  [LLZW14, TQW+14].  $\alpha_{s2}$  [SJDC+13].  $\beta$  [CKTT10, CPB+15, CMR+16, HBH+19, JSAH+18, KBE+14, PLCC11, SCS+12, TQW+14, UN10, UKS+18, YSHG18].  $\gamma$  [TQW+14].  $\mu$  [BVL+18, GVLE16].  $\times$  [AZSSZZ13, BSK+10, DBS12, FCS+18, LTC+14, RHSM+18b, SSF+17, SL15, SRT+14, ZDWH18].  $\varepsilon$  [RBL+11].

**-1** [JSAH+18, YSHG18]. **-6-fluoro** [SRD+16]. **-D-glucans** [KBE+14]. **-G** [CGW+19]. **-glucan** [UKS+18]. **-haemoglobin** [UN10]. **-hydroxybutyrate** [SCS+12]. **-like** [BRB+12, ZGY+18]. **-proteobacteria** [CMR+16].

**.** [ATP+17, SPKS17, YFA+17].

**1** [CKTT10, EDP+17, GVLE16, GCCLRP+13, KYK+12, KAST17, LASRA+19, MMNL14, NJK+17, SHKF16, UN10, VCS+19].

**1-chloropiperidin-4-yl** [SRD<sup>+</sup>16]. **12** [DJR<sup>+</sup>19, MMNL14]. **16S** [DPMK12, LWWS14, LGD<sup>+</sup>17, RB15]. **16S-RFLP** [LGD<sup>+</sup>17].

**2** [AHJS<sup>+</sup>18, DKBS17, GM10, NSS<sup>+</sup>17, PMW<sup>+</sup>10, RAM<sup>+</sup>18]. **23S** [DPMK12]. **2L** [LCC<sup>+</sup>15].

**3** [CWW<sup>+</sup>18, IFF<sup>+</sup>15, PFP<sup>+</sup>13]. **3-** [SRD<sup>+</sup>16]. **3-glucan** [YSHG18]. **3-year** [KZJ<sup>+</sup>17]. **3/1** [JSAH<sup>+</sup>18]. **35-year-old** [WGL17]. **36** [APG<sup>+</sup>11, HO13].

**5** [VSS17]. **5'-monophosphate** [VSS17]. **55L** [HLC<sup>+</sup>15]. **5p** [FBK<sup>+</sup>16].

**6** [GCNB16]. **6-** [KBE<sup>+</sup>14]. **6-glucan** [JSAH<sup>+</sup>18]. **610** [RGD<sup>+</sup>12]. **64L** [CCLL16].

**73** [YK12].

**8** [LRD<sup>+</sup>19]. **89** [RSIP<sup>+</sup>17, RSPA<sup>+</sup>18].

**90** [RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, SHO<sup>+</sup>17]. **97L** [HLC<sup>+</sup>15].

**A-I** [LSC<sup>+</sup>14]. **A-layer** [GLK<sup>+</sup>16]. **A.** [CSA<sup>+</sup>15]. **A1** [ZWG<sup>+</sup>17]. **abalone** [JYZ<sup>+</sup>14]. **ABC** [OJRL10]. **ABC-transporter** [OJRL10]. **abdominal** [GHB<sup>+</sup>11]. **abdominalis** [LYD<sup>+</sup>15]. **Abilgaard** [SAD<sup>+</sup>12]. **ability** [CD17, PST<sup>+</sup>16, SWM<sup>+</sup>15]. **abiotic** [SHV<sup>+</sup>16]. **abnormalities** [FPK<sup>+</sup>17, MPS<sup>+</sup>18]. **abrupt** [LTC17]. **abscessus** [PBW<sup>+</sup>18]. **absence** [GCS<sup>+</sup>18, JJJ16]. **abundance** [GBV<sup>+</sup>16, GVB<sup>+</sup>17a, GAVC16, JMF<sup>+</sup>18, LDÁM14]. **Acanthopagrus** [Dig13, Dig15, LLDL13, Pol15]. **acarne** [RVB13]. **Accelerated** [AGB<sup>+</sup>19]. **accuracy** [LTG<sup>+</sup>18, LMG<sup>+</sup>19]. **accurate** [KPSP<sup>+</sup>19]. **achromogenes** [BBP18, SWM<sup>+</sup>15]. **Achyranthes** [CR12]. **Acid** [ASHZ<sup>+</sup>12, ACYC10, AMRHM18, BCBS<sup>+</sup>13, DTF<sup>+</sup>16, GRT12, JKL<sup>+</sup>13, KSM<sup>+</sup>17, MMNL14, PSBG<sup>+</sup>11, PCK<sup>+</sup>15, SOGR<sup>+</sup>19, SMFM12, TNK12]. **acid-specific** [ACYC10]. **acidification** [ASW16, CBM<sup>+</sup>17]. **acidovorans** [ARFG13]. **acids** [MLF<sup>+</sup>10]. **Acipenser** [LGK<sup>+</sup>14, MMD<sup>+</sup>12, RHSM<sup>+</sup>18b, RFA<sup>+</sup>14, SAD<sup>+</sup>12]. **Acipenserid** [DKBS17]. **acquisition** [BLF<sup>+</sup>16, BPMI<sup>+</sup>16, BAMYAH19]. **act** [PJJ<sup>+</sup>12]. **Actinochlamydia** [SPV<sup>+</sup>18]. **Actinochlamydiaceae** [SPV<sup>+</sup>18]. **activation** [RCGGM15]. **active** [LBF<sup>+</sup>14]. **activities** [BSD<sup>+</sup>18a, BA14, HDC18, YLX<sup>+</sup>19b]. **activity** [BSSB18, BSD<sup>+</sup>18d, BYAS<sup>+</sup>19, BLFC12, PMH<sup>+</sup>11, PSBG<sup>+</sup>11, RBH<sup>+</sup>17, SJDC<sup>+</sup>13, SLPB18, SBW11, TFG19, UN10, YSK13, ZWG<sup>+</sup>17]. **acts** [PBC15]. **aculeatus** [ASW16, PJZB19, WFH<sup>+</sup>18]. **Acute** [HCCM12, PRT<sup>+</sup>14, PÁD18, Bin14, BPK<sup>+</sup>17, CCLGRM<sup>+</sup>17, CZB<sup>+</sup>11, DD18, DJR<sup>+</sup>19, KAF<sup>+</sup>19, KTN<sup>+</sup>16, KYB<sup>+</sup>15, MKY<sup>+</sup>15, NPGA<sup>+</sup>19, TTL<sup>+</sup>16].

**acute-phase** [DJR<sup>+</sup>19]. **acutely** [PRSK10]. **acutus** [KJB11]. **Acyclovir** [TKS<sup>+</sup>18]. **adapt** [HGH<sup>+</sup>18]. **adaptation** [MLH<sup>+</sup>15]. **additional** [MJ17]. **additives** [AA10]. **adenocarcinoma** [RHSM<sup>+</sup>18a]. **adenoma** [SBHC18]. **adenosine** [BSD<sup>+</sup>18a, VSS17]. **adenosinergic** [BSD<sup>+</sup>18b]. **adherence** [JSJR<sup>+</sup>19, PDLW17, VMBGIC19]. **Adhesion** [HRNW15, HGW<sup>+</sup>19, YZW<sup>+</sup>19]. **adipose** [ASSP<sup>+</sup>15, BHW<sup>+</sup>11]. **adjuvant** [PVIM18]. **adjuvanted** [CLS<sup>+</sup>15]. **administered** [FHD13, GSS<sup>+</sup>10, HJN<sup>+</sup>19, TNK12]. **administration** [CMH<sup>+</sup>17, DPCdR14, ESV<sup>+</sup>19b, FGJ<sup>+</sup>10, FHZ<sup>+</sup>16, LWJ<sup>+</sup>16, LXHL11, OKS<sup>+</sup>13, PPI<sup>+</sup>13, dOAPLá<sup>+</sup>17]. **adomavirus** [PWW19]. **adult** [BHT<sup>+</sup>17, BVT<sup>+</sup>18, FSV<sup>+</sup>14, HKD<sup>+</sup>10, JHM<sup>+</sup>18, KCD<sup>+</sup>14, MIO<sup>+</sup>18, PPE<sup>+</sup>18, RBAT<sup>+</sup>17, RAM<sup>+</sup>17, SSK17]. **adulterant** [PNBK13]. **aduncum** [MGH<sup>+</sup>14]. **Advice** [TJR<sup>+</sup>18]. **aeglefinus** [JHM<sup>+</sup>18]. **Aequidens** [YCNW18]. **aer** [FMA<sup>+</sup>19]. **Aerococcus** [CG11]. **aerocystitis** [CBH<sup>+</sup>15, dSRSHGá<sup>+</sup>19]. **aerolysin** [FMA<sup>+</sup>19, MBB12]. **aerolysin-like** [MBB12]. **aeromonads** [PAZ18]. **Aeromonas** [AA10, BSV<sup>+</sup>18, BSB<sup>+</sup>18, BKS<sup>+</sup>17, BKD17, BHF13, BLFRCQ10, BVK<sup>+</sup>16, BE19, BBP18, BGCKF12, CHH<sup>+</sup>14, CMSHS16, CLZ<sup>+</sup>12, CD17, CYS17, ÇOÇ<sup>+</sup>16, CCMA<sup>+</sup>17, CTK<sup>+</sup>10, DBS12, DLCF13, DTJ<sup>+</sup>17, DSJA18, EDP<sup>+</sup>17, EDV<sup>+</sup>18, FCC<sup>+</sup>13, FMA<sup>+</sup>19, GDN<sup>+</sup>16, GLK<sup>+</sup>16, HKK<sup>+</sup>11a, JAR<sup>+</sup>11, JSAH<sup>+</sup>18, JSJR<sup>+</sup>19, KEY<sup>+</sup>15, KBJ<sup>+</sup>13, KBD13, LPA<sup>+</sup>10, LL12, LLZW14, LCZ<sup>+</sup>18, LGC<sup>+</sup>19, LCR<sup>+</sup>10, LHW<sup>+</sup>15b, MSC<sup>+</sup>17, MLEM16, MP18, NB11, NLC<sup>+</sup>16, NDA10, OSAA18, PSCFB<sup>+</sup>18, PFJ<sup>+</sup>10, RKK<sup>+</sup>19, RVC18, RPM<sup>+</sup>19, SSHEM11, SWM<sup>+</sup>15, SSC17, SJSA<sup>+</sup>14, VSS17, VSDS<sup>+</sup>19a, VDD<sup>+</sup>18, VC17, WMD<sup>+</sup>18, WYZ<sup>+</sup>19, YFA<sup>+</sup>17, YZW<sup>+</sup>19, YK12, ZCJ<sup>+</sup>18, ZWL<sup>+</sup>16]. **aeruginosa** [BSSB18, BSD<sup>+</sup>18c]. **aestuarianus** [ZQB<sup>+</sup>11]. **aetiological** [CCLGRM<sup>+</sup>17, QXW14]. **aetiology** [LGS<sup>+</sup>14]. **affect** [FCJH19, HHO14, JOF<sup>+</sup>19, SFR<sup>+</sup>17]. **affected** [ACN12, CSS<sup>+</sup>16, DPTFC10, HOHG13, JR19, OCLI<sup>+</sup>19, RHS<sup>+</sup>12, SJT14]. **affecting** [JFVWH19, RAM<sup>+</sup>18, RSF<sup>+</sup>17, SVM<sup>+</sup>18]. **aflatoxin** [BSD<sup>+</sup>18d]. **Africa** [HGPD11, HOHG13, HWO<sup>+</sup>17, MCCN14]. **African** [BHA<sup>+</sup>11, HOHG13, MWS17, OAO<sup>+</sup>12, RSR<sup>+</sup>18, WTM14]. **after** [BHO<sup>+</sup>19, DPCdR14, ELI<sup>+</sup>17, FHZ<sup>+</sup>16, GFM<sup>+</sup>16, GMN12, HKBD15b, JMF<sup>+</sup>18, JSAH<sup>+</sup>18, MID<sup>+</sup>19b, MID<sup>+</sup>19a, NSE<sup>+</sup>17, TQW<sup>+</sup>14, TMC<sup>+</sup>12, VCN<sup>+</sup>10, YYW<sup>+</sup>14]. **against** [ASHZ<sup>+</sup>12, ANB<sup>+</sup>19, BBF<sup>+</sup>15, BYAS<sup>+</sup>19, BVK<sup>+</sup>16, BE19, Buc12, BLFC12, CCLGRM<sup>+</sup>17, CHH<sup>+</sup>14, CHV<sup>+</sup>12, CCH<sup>+</sup>19, CGR17, CCLL16, CGW<sup>+</sup>19, CKTT10, CKvGJB17, ÇOÇ<sup>+</sup>16, CSCCA14, CSSWK10, DD18, DLP<sup>+</sup>13, ESA<sup>+</sup>10, EDV<sup>+</sup>18, ERApSB14, FLCC<sup>+</sup>14, FHD13, GCNB16, HDC18, HLL<sup>+</sup>12, HCL<sup>+</sup>14, HJN<sup>+</sup>19, HLC<sup>+</sup>15, HBH<sup>+</sup>19, JST<sup>+</sup>19, JAR<sup>+</sup>11, JOF<sup>+</sup>19, KSS<sup>+</sup>15, LPA<sup>+</sup>10, LKS<sup>+</sup>13, LRC<sup>+</sup>18, LXHL11, LHW<sup>+</sup>12, LLL<sup>+</sup>18a, MMS<sup>+</sup>16, MTK<sup>+</sup>10, MID<sup>+</sup>19b, MA16, NPGA<sup>+</sup>19, NNC<sup>+</sup>18, OMB<sup>+</sup>19, PZL<sup>+</sup>14, PSBG<sup>+</sup>11, RPMRLJ<sup>+</sup>19, RSGB<sup>+</sup>14, RBH<sup>+</sup>17, SHS14, SJDC<sup>+</sup>13, SMR10, SGB<sup>+</sup>16, SLKE10, SSSP18, SNM<sup>+</sup>16, SWS<sup>+</sup>16, SRD<sup>+</sup>16, SRB12,

TFG19, VDO<sup>+18b</sup>, VDO<sup>+18a</sup>, WBF<sup>+10</sup>, WCR<sup>+18</sup>, WM19, WHR<sup>+18</sup>, WSA<sup>+18</sup>, XZZ16, YLX<sup>+19b</sup>, ZWG<sup>+18</sup>]. **agalactiae** [DDBC<sup>+15</sup>, AAZS<sup>+15</sup>, AZSI<sup>+12</sup>, AZSSZZ13, ATP<sup>+17</sup>, BSD<sup>+18b</sup>, BMMC<sup>+15</sup>, BFFA<sup>+12</sup>, BDB<sup>+18</sup>, CWL<sup>+17</sup>, CZL<sup>+19</sup>, DZC<sup>+16</sup>, HZX<sup>+13</sup>, ICVV16, LLH<sup>+14a</sup>, LLH<sup>+14b</sup>, LLX<sup>+19</sup>, LLL<sup>+18a</sup>, MoSMS18, NYRS12, SFL<sup>+16</sup>, SPS<sup>+19</sup>, VMBGIC19, VJWC<sup>+18</sup>, XXL<sup>+19</sup>, ZKL<sup>+19</sup>]. **Agassiz** [RHSM<sup>+18a</sup>]. **AGD** [ACN12, CHWM<sup>+19</sup>]. **Age** [JHW17]. **agent** [ACM<sup>+14</sup>, CCLGRM<sup>+17</sup>, CPP14, GTT<sup>+17</sup>, GCGR13, HWM<sup>+13</sup>, JFWH19, KEY<sup>+15</sup>, MFS<sup>+17</sup>, MSS<sup>+17a</sup>, NLF11, RGD<sup>+13</sup>, SSF<sup>+17</sup>, SWD<sup>+14</sup>, TVK<sup>+19</sup>, WCR<sup>+18</sup>, WEPB<sup>+18</sup>, ZWG<sup>+17</sup>]. **agent-based** [GCGR13]. **agents** [HH13a, HBS<sup>+14</sup>, SSC17]. **agreement** [JWO<sup>+10</sup>]. **AHPND** [BPK<sup>+17</sup>, ITKH18]. **AIP1** [SRSF10]. **air** [LWMT10]. **Aires** [Lek12]. **akaara** [GHH<sup>+11</sup>]. **al** [JCN<sup>+14</sup>, KRFT14]. **AL09** [YK12]. **AL09-73** [YK12]. **Alaska** [PPE<sup>+18</sup>]. **Albendazole** [ANB<sup>+19</sup>]. **albigutta** [DBHC17]. **Albufera** [BSC<sup>+14</sup>]. **Algamune<sup>TM</sup>** [YSHG18]. **Algeria** [KCD<sup>+14</sup>]. **alginolyticus** [CLWJ13, CLW<sup>+11</sup>, HGX<sup>+19</sup>, LSC<sup>+14</sup>, PKLH19, YLX<sup>+19a</sup>, YLS<sup>+19</sup>]. **alive** [CBM<sup>+18</sup>]. **Alix** [SRSF10]. **Alix/** [SRSF10]. **alleles** [LLZW14]. **allicin** [NDA10]. **allis** [WBE<sup>+17</sup>, WEPB<sup>+18</sup>]. **Allium** [MSCH14]. **alogynogenetic** [LJHG14, ZWLG10, ZYW<sup>+10</sup>]. **along** [FSM<sup>+16</sup>]. **Alosa** [WBE<sup>+17</sup>, WEPB<sup>+18</sup>]. **alpha** [LSA<sup>+15</sup>]. **alpha-2-macroglobulin** [LSA<sup>+15</sup>]. **alphavirus** [Ano10c, BTC<sup>+17</sup>, CGR17, GFW<sup>+10</sup>, GFM<sup>+11</sup>, GFR<sup>+12</sup>, GRF14, HFT<sup>+12</sup>, HST<sup>+13</sup>, HJT<sup>+16</sup>, JTW<sup>+10</sup>, JJB15, MIO<sup>+18</sup>, RSP<sup>+17</sup>, RSM<sup>+18</sup>, SBH<sup>+16</sup>, SHV<sup>+16</sup>, TJB<sup>+15</sup>]. **alpinus** [SWM<sup>+15</sup>, WKK12]. **also** [GCM<sup>+18b</sup>]. **alter** [PPF<sup>+12</sup>]. **alterations** [LvD18]. **altered** [SSK17]. **alternative** [CB13]. **alternifolia** [BSD<sup>+18c</sup>, VGI<sup>+16</sup>]. **altivelis** [FNISE12, KSS<sup>+15</sup>, ZCC18, CONN10, FNISE12, KSS<sup>+15</sup>, ZCC18]. **Aluminium** [MGF17]. **alvei** [OSC<sup>+14</sup>]. **Amago** [IOO15]. **Amazon** [MdOO16, OMB<sup>+19</sup>, PdSG<sup>+12</sup>, dSdAdS<sup>+19</sup>]. **amberjack** [MKH<sup>+11</sup>, NMM<sup>+18</sup>, dSRSHGa<sup>+19</sup>]. **ambigua** [HBB14]. **Ameiurus** [BPF<sup>+18</sup>, PHR14]. **amended** [GDN<sup>+16</sup>]. **America** [EKT<sup>+11</sup>]. **American** [CG11, DKBS17, GL18, KPKP10, KWD<sup>+16</sup>, LML12, SQC<sup>+14</sup>]. **American-HPR0** [GL18]. **americanus** [CG11, SQC<sup>+14</sup>]. **amine** [FHZ<sup>+16</sup>]. **Amino** [SOGR<sup>+19</sup>]. **ammonia** [FSO<sup>+10</sup>, SRB12]. **Ammonium** [RHS<sup>+12</sup>, MoSMS18]. **amoeba** [DT16, LTC16, LTC17]. **amoebae** [FMM<sup>+19</sup>]. **Amoebic** [CONN10, TCC10a, ACN12, BPCS19, DYML<sup>+18</sup>, MLER<sup>+18</sup>, MCCN14, NBJ10, WNO<sup>+18</sup>]. **Amoebozoa** [CPP14]. **among** [ADR11, OEG<sup>+13</sup>, PPSW19, SMJ<sup>+12</sup>, SCD19, SVY<sup>+14</sup>]. **amongst** [KBTMH<sup>+16</sup>]. **Amphiprion** [BRMG13, SBK<sup>+15</sup>]. **amplification** [HJOK11, HGG<sup>+11</sup>, JYZ<sup>+14</sup>, KTN<sup>+16</sup>, LLWL15, MSI<sup>+15</sup>, OBR<sup>+14</sup>, WSX<sup>+18</sup>, YWW<sup>+19</sup>]. **ampullary** [CBC<sup>+13</sup>]. **Amyloid** [CBFM16, RTM<sup>+15</sup>]. **Amyloid-like** [CBFM16]. **Amyloidinium** [MSS<sup>+17b</sup>, YB17]. **anadromous** [áKÁGA16]. **Anaemia** [CCCTA<sup>+14</sup>, LLLG18, ADF14, ADMF15, ATM<sup>+10</sup>, EYF<sup>+19</sup>, GL18, GCS<sup>+18</sup>, HWM<sup>+13</sup>, IOO15, MMWK19, MAC<sup>+15</sup>, MTHB13, OBF12, SG12, VDMJ<sup>+13</sup>, XQS<sup>+15</sup>]. **anal** [CAJD<sup>+18</sup>, FPK<sup>+17</sup>]. **analyses**

[NRMS14, RHVG<sup>+19b</sup>, STIG17, YEK<sup>+17</sup>]. **Analysing** [MLH<sup>+15</sup>]. **Analysis** [FCL<sup>+19</sup>, YMH<sup>+11</sup>, ATM<sup>+10</sup>, ACAS14, ASB<sup>+12</sup>, BC11, CIL<sup>+17</sup>, CGP<sup>+19</sup>, CMEV17a, CMS<sup>+17</sup>, CMEV17b, ECP<sup>+10</sup>, FGJ<sup>+10</sup>, FMA<sup>+19</sup>, GPL<sup>+12</sup>, IBFL19, JCN<sup>+13</sup>, JCN<sup>+14</sup>, JKH<sup>+17</sup>, KKM<sup>+19</sup>, KRFT14, LGD<sup>+17</sup>, LCV<sup>+17</sup>, LMG<sup>+19</sup>, LITCAH19b, LKT<sup>+13</sup>, MFS<sup>+17</sup>, MBT<sup>+17</sup>, MMH10, NSE<sup>+17</sup>, NSC<sup>+18</sup>, NMM<sup>+18</sup>, PHvdH12, PKLH19, PSVK<sup>+18</sup>, PJU<sup>+13</sup>, RKK<sup>+19</sup>, SHKF16, SOA<sup>+18</sup>, TCFáS19, TDT<sup>+16</sup>, VC17, WMM<sup>+16</sup>, WMD<sup>+18</sup>, WZA10, XJL<sup>+19</sup>, YAHWU11, ZJR<sup>+18</sup>, ZCJ<sup>+18</sup>]. **analytical** [BHA<sup>+17</sup>]. **anatomy** [FPK<sup>+17</sup>, LGS<sup>+14</sup>]. **anchovy** [RGMGG<sup>+18</sup>]. **Ancyrocephalus** [BGRB14]. **and/or** [HKBD15a, HKBD15b]. **angasi** [BWP<sup>+19b</sup>]. **AngHV** [KYK<sup>+12</sup>, NJK<sup>+17</sup>]. **AngHV-1** [KYK<sup>+12</sup>, NJK<sup>+17</sup>]. **angio** [ASW16]. **angio-architecture** [ASW16]. **angiolioma** [RhAS<sup>+15</sup>]. **anglerfish** [FYO<sup>+11</sup>, LRAP17]. **Anguilla** [ARFG13, BSC<sup>+14</sup>, BMD<sup>+14</sup>, BND<sup>+17</sup>, BDM<sup>+18</sup>, CSA<sup>+15</sup>, DMB<sup>+16</sup>, EMA17, FDST16, GFM<sup>+16</sup>, KYK<sup>+12</sup>, KPK<sup>+18</sup>, KLD<sup>+18</sup>, KAST17, LML12, MBD16, MFES18, MWS17, NJK<sup>+17</sup>, OMO<sup>+15</sup>, PWHW18b, SWE<sup>+19</sup>, WCW<sup>+16b</sup>]. **anguillae** [MWS17, NJK<sup>+17</sup>]. **anguillarum** [ACL<sup>+19</sup>, BVK<sup>+16</sup>, BFC<sup>+15</sup>, CCH<sup>+19</sup>, CKTT10, CDG<sup>+14</sup>, FMB<sup>+11</sup>, HRL15, JQK14, RGD<sup>+12</sup>, RRO<sup>+13</sup>, SCS<sup>+12</sup>, TMC<sup>+12</sup>, WM19, ZXW<sup>+12</sup>]. **anguillicaudatus** [ZWL<sup>+16</sup>]. **Anguillicola** [BMD<sup>+14</sup>, BND<sup>+17</sup>]. **Anguillicoloides** [FDST16, LML12, LFP<sup>+11a</sup>, LFP<sup>+11b</sup>]. **anguillid** [KYK<sup>+12</sup>, vBVL<sup>+16</sup>, MFES18, KAST17]. **anguilliseptica** [ARFG13]. **angulospora** [SBP<sup>+19</sup>]. **animal** [RAM<sup>+19</sup>]. **animals** [LTG<sup>+18</sup>, LTM<sup>+19</sup>, SAS<sup>+19</sup>, THW<sup>+12</sup>]. **anisakiasis** [KHS11]. **Anisakidae** [MGH<sup>+14</sup>, SDZN19]. **Anisakis** [MGH<sup>+14</sup>]. **anisitsi** [Lek12]. **annectens** [RSR<sup>+18</sup>]. **anomalies** [ACA<sup>+16</sup>, BC11, dALF<sup>+17</sup>]. **anomaly** [AAV<sup>+16</sup>]. **anterior** [PAM<sup>+19</sup>, PRSK10]. **Anthony** [Rob11]. **Anthropogenic** [KAST17, MMMD16]. **anti** [BSB<sup>+18</sup>, DJQ<sup>+12</sup>, MDF<sup>+17</sup>, NPGA<sup>+19</sup>]. **anti-apoptotic** [DJQ<sup>+12</sup>]. **anti-inflammatory** [BSB<sup>+18</sup>, MDF<sup>+17</sup>]. **Anti-PirA-like** [NPGA<sup>+19</sup>]. **Antibacterial** [LWJ<sup>+16</sup>, LLL<sup>+12</sup>, SHS14, ZZQ<sup>+19</sup>]. **Antibiotic** [CDW17, CYS17, CIL<sup>+17</sup>, FCL<sup>+19</sup>, HKB<sup>+16</sup>, NB11, RHBMM13, SK15, SFF<sup>+17</sup>, ZCJ<sup>+18</sup>, ZDWH18]. **antibiotic-resistant** [RHBMM13]. **antibiotics** [AAZS<sup>+15</sup>, LRS<sup>+17</sup>, SHS14]. **antibodies** [CLC<sup>+17</sup>, ERÁpSB14, HLC<sup>+15</sup>, LCR<sup>+10</sup>, ZWG<sup>+18</sup>]. **Antibody** [GSEM13, SSHEM11, Ano12c, BWZ<sup>+17</sup>, BRB<sup>+12</sup>, CGR17, CCLL16, ELI<sup>+17</sup>, EDV<sup>+18</sup>, KSS<sup>+15</sup>, KJW<sup>+17</sup>, MF12, PSK<sup>+13</sup>, TCC10a]. **antibody-based** [PSK<sup>+13</sup>]. **Antibody-coated** [SSHEM11]. **Antifungal** [BAH<sup>+16</sup>]. **antigen** [CR12, DMD<sup>+17</sup>, HCL<sup>+14</sup>, MSC<sup>+17</sup>, SGB<sup>+16</sup>, TQW<sup>+14</sup>, ZXW<sup>+12</sup>]. **antigenic** [JKC<sup>+11</sup>]. **Antigens** [MLEM16, áKÁGA16, KREM14, LMAKN16, RBAT<sup>+17</sup>]. **Antimicrobial** [BYAS<sup>+19</sup>, CMH<sup>+17</sup>, DBV<sup>+13</sup>, NSB<sup>+18</sup>, DMP10, PMK12, RHTC19b, SW11, UN10, ZN10]. **antioomycete** [ZN10]. **antioxidant** [BSD<sup>+18c</sup>, BA14]. **antioxidative** [LMC<sup>+16</sup>]. **Antiparasitic** [UN10, HBS<sup>+14</sup>, MDF<sup>+17</sup>, ZN10]. **antiparasitics** [GOM<sup>+19</sup>]. **Antiviral**

[HDC18, RBH<sup>+17</sup>, SJDC<sup>+13</sup>, SVL<sup>+17</sup>, YLX<sup>+19b</sup>]. **aorta** [DKG<sup>+17</sup>].  
**Aphanomyces** [SMKBP17, VDHV<sup>+16</sup>, VDH19]. **Apicomplexa**  
[MdOO16, dSdAdS<sup>+19</sup>]. **aplasia** [FFP<sup>+14</sup>]. **apolipoprotein** [LSC<sup>+14</sup>].  
**Apoptosis** [DRG<sup>+17</sup>, CXW<sup>+19</sup>, DJQ<sup>+12</sup>, RBL<sup>+11</sup>, WCL<sup>+19</sup>]. **apoptotic**  
[DJQ<sup>+12</sup>]. **Apostichopus** [LQL<sup>+10</sup>]. **apparatus** [YK12]. **applicability**  
[CPdPPP16]. **Application** [CDG<sup>+14</sup>, LRS<sup>+17</sup>, MMBS10, CLWJ13,  
CCCTA<sup>+14</sup>, dSCBdS<sup>+16</sup>, FSG<sup>+12</sup>, GHW<sup>+15</sup>, LML<sup>+13</sup>, MoSMS18, NMIIY14,  
PPK<sup>+13</sup>, SCK13, WCR<sup>+18</sup>, ZCC<sup>+15</sup>]. **Applications** [Spe19a]. **applied**  
[GOM<sup>+19</sup>, MSCH14]. **approach**  
[JMD<sup>+18</sup>, LRMN17, LHW<sup>+15b</sup>, OLVJ<sup>+13</sup>, WWE<sup>+13</sup>]. **approaches**  
[CRBLC<sup>+17</sup>, ZXW<sup>+12</sup>]. **apta** [YLX<sup>+19a</sup>, ZLN<sup>+17</sup>]. **apta-sorbent**  
[YLX<sup>+19a</sup>, ZLN<sup>+17</sup>]. **aptamer** [YGL<sup>+18</sup>, YLX<sup>+19a</sup>, ZLN<sup>+17</sup>].  
**aptamer-based** [YLX<sup>+19a</sup>]. **aptamers** [HMP<sup>+12</sup>, YLS<sup>+19</sup>]. **Aquaculture**  
[Spe19a, BTN<sup>+18</sup>, BMBS12, DVC<sup>+17</sup>, GJMH17, GDW<sup>+15</sup>, JJM<sup>+17</sup>,  
JSAB<sup>+19</sup>, KOS<sup>+10</sup>, MSBB<sup>+16</sup>, MBS<sup>+17</sup>, MSCH14, OT12, PSVK<sup>+18</sup>,  
QZZ<sup>+18b</sup>, RAM<sup>+18</sup>, SMR16, SBK<sup>+15</sup>, TJA<sup>+13</sup>, WCR<sup>+18</sup>, ZCQF15].  
**Aquaflor(R)** [DBS12]. **AquaPathogen** [EKT<sup>+11</sup>]. **aquareovirus**  
[PWW19]. **aquaria** [SMJ<sup>+14</sup>]. **aquarium**  
[DSJA18, KJB11, KZJ<sup>+17</sup>, ONGQ<sup>+14</sup>, PBW<sup>+18</sup>, TIK<sup>+14a</sup>].  
**aquarium-held** [KJB11]. **aquarium-maintained** [TIK<sup>+14a</sup>]. **aquatic**  
[EKT<sup>+11</sup>, EMA17, LRS<sup>+17</sup>, LTG<sup>+18</sup>, LTM<sup>+19</sup>, PJJ<sup>+12</sup>, THW<sup>+12</sup>].  
**aqueous** [YLX<sup>+19b</sup>]. **AQUI** [CAS<sup>+18</sup>]. **AQUI-S(R)** [CAS<sup>+18</sup>]. **Arabian**  
[CIA<sup>+18</sup>]. **arabicum** [CIA<sup>+18</sup>]. **Arborescent** [OOO<sup>+11</sup>]. **archamoebae**  
[CPdPPP16]. **architecture** [ASW16]. **archived** [TVK<sup>+19</sup>]. **Arctic**  
[KOB<sup>+17</sup>, SWM<sup>+15</sup>, SVL<sup>+17</sup>, WKK12]. **area** [JR19, SMR16]. **areas**  
[DMK<sup>+19</sup>]. **arenaria** [MMD16]. **argenteus** [LJC<sup>+19</sup>]. **Argentina**  
[CCMA<sup>+17</sup>, TB12]. **argentine** [TB12]. **argus** [DIH<sup>+16</sup>, LL12].  
**Argyrosomus** [EKS<sup>+13</sup>, TAQ<sup>+10</sup>]. **aromatic** [PVIM18]. **arowana**  
[KVC<sup>+16</sup>]. **array** [LFH<sup>+11</sup>]. **array-based** [LFH<sup>+11</sup>]. **artedi** [WKW<sup>+11</sup>].  
**Artemia** [TNK12, WBF<sup>+10</sup>]. **arteries** [BOH<sup>+12</sup>, DRdS<sup>+10</sup>].  
**Arteriosclerosis** [DKG<sup>+17</sup>]. **arteriosus** [DKG<sup>+17</sup>, YP17]. **arthromitus**  
[DPTFC10]. **Arthrospira** [RBH<sup>+17</sup>]. **artificially** [BLFRCQ10].  
**arugamensis** [KCL14]. **AsaP1** [SWM<sup>+15</sup>]. **AsaP1-toxoid** [SWM<sup>+15</sup>].  
**Ascanius** [BT14, RSP<sup>+17</sup>, RSM<sup>+18</sup>, TB12]. **ascidian** [KOS<sup>+10</sup>, PZL<sup>+14</sup>].  
**ascidians** [KOS<sup>+10</sup>]. **Ascomycota** [ŘKH16]. **Asia** [DMK<sup>+19</sup>, SDM<sup>+19</sup>].  
**Asian** [CCW<sup>+15</sup>, CCW<sup>+15</sup>, GKCC<sup>+12</sup>, KNN19]. **ASK**  
[BAMYAH19, CCCTA<sup>+14</sup>, SDR<sup>+15</sup>]. **asp** [MAOS<sup>+18</sup>]. **aspartate** [ZCJ<sup>+18</sup>].  
**aspects** [GJVT<sup>+11</sup>, PBM13, PMP<sup>+18</sup>, SVY<sup>+14</sup>]. **aspera** [CR12].  
**aspiration** [ALG15]. **Aspius** [MAOS<sup>+18</sup>]. **assay**  
[AS17, ASS19, BWZ<sup>+17</sup>, CDF<sup>+18</sup>, CCCTA<sup>+14</sup>, DPMK12, DSLR16, FSO<sup>+10</sup>,  
GM10, GDN<sup>+16</sup>, JKS<sup>+13</sup>, KBJ<sup>+13</sup>, LFH<sup>+11</sup>, LLWL15, LXX<sup>+17</sup>, MMBS10,  
MSI<sup>+15</sup>, NMM<sup>+18</sup>, SMF<sup>+10</sup>, SFL<sup>+16</sup>, YWW<sup>+19</sup>, YLX<sup>+19a</sup>, ZFZ<sup>+11</sup>,  
ZLN<sup>+17</sup>, vBVL<sup>+16</sup>]. **assays**  
[CHAB10, DCL<sup>+17</sup>, EAM<sup>+13</sup>, GJK<sup>+11</sup>, LPCC12, NMIIY14, SK15].

**assembling** [LRD<sup>+</sup>19]. **assembly** [FFLC17, KREM14, PLCC11]. **assess** [BFC<sup>+</sup>15, JKH<sup>+</sup>17, SMM<sup>+</sup>13]. **assessed** [GDN<sup>+</sup>16]. **Assessing** [GMC<sup>+</sup>16b, YLL<sup>+</sup>18]. **Assessment** [DBS12, MBS<sup>+</sup>19a, AAV<sup>+</sup>16, DCG18, MMH<sup>+</sup>18, NJK<sup>+</sup>17, PNBK13, RCD<sup>+</sup>17, SCF<sup>+</sup>13, SGB<sup>+</sup>16]. **assessments** [WWE<sup>+</sup>13]. **assignment** [LWWS14, LGD<sup>+</sup>17]. **assisted** [CMEV17a, CMEV17b]. **Asso** [EKS<sup>+</sup>13, TAQ<sup>+</sup>10, VPP<sup>+</sup>12]. **associated** [ACLP<sup>+</sup>19, AHB<sup>+</sup>17, BKG<sup>+</sup>18, BB11, BA13, BK12, BMA13, BVT<sup>+</sup>18, BVL<sup>+</sup>18, CBC<sup>+</sup>13, CDM<sup>+</sup>16, CKTT10, CSA<sup>+</sup>15, CG11, CMR<sup>+</sup>16, DSMC17, DML<sup>+</sup>16, DYML<sup>+</sup>18, DT16, FCL<sup>+</sup>19, GDW<sup>+</sup>15, HBB14, HSA17, HBB<sup>+</sup>15, HSHC<sup>+</sup>16, JYZ<sup>+</sup>14, KCD<sup>+</sup>14, KOB<sup>+</sup>17, KR<sup>+</sup>17, LGK<sup>+</sup>14, LFP<sup>+</sup>11a, LFP<sup>+</sup>11b, LLZW14, LXL<sup>+</sup>18, LDEH17, LFL19, LLL<sup>+</sup>13, MLMR16, MLER<sup>+</sup>18, MRSC13, MSR<sup>+</sup>10, MKH<sup>+</sup>11, MTLP<sup>+</sup>18b, MCO11, MMW<sup>+</sup>15, OAO<sup>+</sup>12, ONGQ<sup>+</sup>14, ONA10, PAM<sup>+</sup>19, PCK<sup>+</sup>15, QXW14, RCGGM15, RKPG16, RSPA<sup>+</sup>18, RTM<sup>+</sup>15, STF<sup>+</sup>15, SBM<sup>+</sup>11, SDZN19, SWE<sup>+</sup>19, SPV<sup>+</sup>18, SKGE13, SRT<sup>+</sup>14, TGJCH15, VJWC<sup>+</sup>18, VFB<sup>+</sup>12, VME<sup>+</sup>19, WNL<sup>+</sup>12, XQS<sup>+</sup>15, XLZ<sup>+</sup>17, YYF<sup>+</sup>10, ZZC<sup>+</sup>17, ZJDL18, ZSZF16, ZxYJ<sup>+</sup>19]. **Association** [CPB<sup>+</sup>15, MTG<sup>+</sup>10, CHF<sup>+</sup>12, FCC<sup>+</sup>13, FFLC17, MCO11, SL15]. **associations** [KNN19]. **astaci** [SMKBP17, VDHV<sup>+</sup>16]. **Astacus** [OSC<sup>+</sup>14]. **Astronotus** [RHSM<sup>+</sup>18a]. **asymmetric** [YGL<sup>+</sup>18]. **asymptomatic** [LJGRI<sup>+</sup>10, WIC<sup>+</sup>19]. **ater** [SDZN19]. **atherinoides** [HAP<sup>+</sup>10, LRB<sup>+</sup>17, MGN<sup>+</sup>16]. **atherinoidi** [LRB<sup>+</sup>17]. **atherosclerosis** [DBHC17]. **Atlantic** [JCN<sup>+</sup>14, VCS<sup>+</sup>19, ACN12, ACA<sup>+</sup>16, AAV<sup>+</sup>16, AFA<sup>+</sup>12, ASSP<sup>+</sup>15, Ano10c, ACM<sup>+</sup>14, BSWS11, BRL<sup>+</sup>13, BHO<sup>+</sup>19, BSSH17, BOH<sup>+</sup>12, BA13, BBP18, BMT<sup>+</sup>15, BTC<sup>+</sup>17, BHA<sup>+</sup>17, BNS13, BDD<sup>+</sup>18, BSBH10, CBLN13, CJB<sup>+</sup>15, CNN<sup>+</sup>10, CGR17, CHWM<sup>+</sup>19, CZB<sup>+</sup>11, CRAG<sup>+</sup>12, DTF<sup>+</sup>16, DKG<sup>+</sup>17, DLLB<sup>+</sup>18, DMB<sup>+</sup>19, DRG<sup>+</sup>17, DYML<sup>+</sup>18, ESBE18, ECP<sup>+</sup>10, EWRH13, ELI<sup>+</sup>17, EDV<sup>+</sup>18, ESV<sup>+</sup>19b, FMM<sup>+</sup>19, FvdMF<sup>+</sup>18, FSM<sup>+</sup>16, FFP<sup>+</sup>14, FHFF15, FMH<sup>+</sup>15, FGR<sup>+</sup>12, FSV<sup>+</sup>18, FSB<sup>+</sup>18c, GL18, GFO<sup>+</sup>13, GFS<sup>+</sup>18, GMC<sup>+</sup>16a, GVB<sup>+</sup>17b, GIW<sup>+</sup>11, GTT<sup>+</sup>17, GCM<sup>+</sup>18b, GSS<sup>+</sup>10, GGH<sup>+</sup>10, GCMG<sup>+</sup>11, GMC<sup>+</sup>16b, GFW<sup>+</sup>10, GBSF12, GFR<sup>+</sup>12, GRT12, GHB<sup>+</sup>11, GCGR13, GGGM14, HHO14, HLHS11, HKD<sup>+</sup>10, HSA17, HST<sup>+</sup>13, IAR<sup>+</sup>10, JCN<sup>+</sup>13, JKO<sup>+</sup>13, JWO<sup>+</sup>10, JTW<sup>+</sup>10, JMF<sup>+</sup>18, JBO<sup>+</sup>15, JOF<sup>+</sup>19, JNS<sup>+</sup>19, JR19, JHGR13, JJSJ15, KOB<sup>+</sup>17, KAF<sup>+</sup>19, KHG<sup>+</sup>17, KSA<sup>+</sup>10, KRFT14, KBD13, KWD<sup>+</sup>16, LGK<sup>+</sup>14, LDAM14]. **Atlantic** [LAN<sup>+</sup>14, LMG<sup>+</sup>19, LLLG18, LDA<sup>+</sup>19, LRAP17, MVM<sup>+</sup>18, MKI<sup>+</sup>15, MIO<sup>+</sup>18, MMWK19, MSMM19, MSG<sup>+</sup>18, MLMR16, MLER<sup>+</sup>18, MSBB<sup>+</sup>16, MLF<sup>+</sup>10, MMD16, MMD<sup>+</sup>12, MRSC13, MAC<sup>+</sup>15, MID<sup>+</sup>19b, MID<sup>+</sup>19a, MSR<sup>+</sup>10, MGH<sup>+</sup>14, MMH10, NCNB18, NB10, ONGQ<sup>+</sup>14, ONA10, PSZ<sup>+</sup>14, PdLC19, PBMB11, PHVM13, PPK<sup>+</sup>13, PPI<sup>+</sup>13, PG16, PÅD18, PJU<sup>+</sup>13, RB15, RGMGG<sup>+</sup>18, RMR14, RBR19, RRG<sup>+</sup>19, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, RBWR<sup>+</sup>15, SMR10, SMM<sup>+</sup>13, SFR<sup>+</sup>17, SAS<sup>+</sup>19, SFU<sup>+</sup>13, SG12, SQC<sup>+</sup>14, SAD<sup>+</sup>12, STES14, SWWN<sup>+</sup>16, SWS<sup>+</sup>16, SCZM19, SSA13, SSL18, SNK<sup>+</sup>19,

TWNB<sup>+12</sup>, TJB<sup>+15</sup>, TCC10a, TB12, TES11, TCM<sup>+19</sup>, UMMS17, USM17, UKS<sup>+18</sup>, VSDS<sup>+19a</sup>, VDMJ<sup>+13</sup>, VMBGE17, WDM<sup>+15</sup>, WMM<sup>+16</sup>, WHR<sup>+18</sup>, WNL<sup>+12</sup>, WNSAL12, WNAF<sup>+13</sup>, WNMK<sup>+16</sup>, WNAJ<sup>+16</sup>, WNGS<sup>+17</sup>, WOD16, WNO<sup>+18</sup>, YP17, ZCCN13, ZCC<sup>+15</sup>, ZNHC11a, ZNHC11b, ZCP12]. **atlanticus** [BCW<sup>+15</sup>]. **ATP** [PLCC11]. **atresia** [CZB<sup>+11</sup>]. **attachment** [PMBM13, TGJCH15]. **Attempted** [GM11]. **Attenuated** [CSSWK10, CGW<sup>+19</sup>, GPL<sup>+12</sup>, LLX<sup>+19</sup>, MBS<sup>+19a</sup>, ZXW<sup>+12</sup>]. **attenuation** [MSG<sup>+18</sup>]. **attributes** [BFC<sup>+15</sup>]. **Atypical** [HKK<sup>+11a</sup>, BVK<sup>+16</sup>, DKBS17, GLW<sup>+18</sup>, GGH<sup>+10</sup>, MLWC11, RVC18, VDD<sup>+18</sup>, YFA<sup>+17</sup>]. **audit** [EWRH13]. **aurata** [BC11, CVLJ<sup>+10</sup>, CVGR<sup>+13</sup>, CCME16, DdRTM13, DPCdR14, LGS<sup>+14</sup>, MSS<sup>+17b</sup>, RHVG<sup>+19b</sup>, TPD<sup>+19</sup>]. **auratus** [KKOY19, KJW<sup>+17</sup>, LJHG14, NSS<sup>+17</sup>, WXL16, ZWLG10, BBL<sup>+16</sup>, GAEK<sup>+14</sup>, LCR<sup>+10</sup>, RMAM12, WIC<sup>+19</sup>, YNL11, ZWLG10]. **aureamaculosa** [HSGD11]. **aureus** [OAO<sup>+12</sup>, OGI<sup>+18</sup>, SL15]. **auriga** [LJGRI<sup>+10</sup>]. **Austin** [ABF15]. **Australia** [BFFA<sup>+12</sup>, BDB<sup>+18</sup>, HSGD11, MSS<sup>+17a</sup>, NB11, OLC11]. **Australian** [CSA<sup>+15</sup>, HO13, JFWH19, KMGK<sup>+18</sup>, MMG<sup>+11</sup>, MCO11, NSC<sup>+15</sup>, RWTB17, SFF<sup>+17</sup>]. **australis** [CSA<sup>+15</sup>, Dig13, Dig15, Pol15]. **Austria** [LUP<sup>+18</sup>]. **autogenous** [FLC<sup>+17</sup>, RPMRLJ<sup>+19</sup>]. **Autophagy** [BCLM<sup>+19</sup>]. **Autophagy-related** [BCLM<sup>+19</sup>]. **Avenant** [DAO19]. **Avenant-Oldewage** [DAO19]. **Avermectins** [OMB<sup>+19</sup>]. **avidus** [LPC<sup>+18</sup>]. **avirulent** [FNISE12]. **avium** [JK12]. **axelrodi** [LLG<sup>+15</sup>, ŘKH17]. **axillary** [RVB13]. **ayu** [CONN10, FNISE12, KSS<sup>+15</sup>, ZCC18]. **Azumiobodo** [PZL<sup>+14</sup>].

**B** [JCN<sup>+14</sup>, BSD<sup>+18d</sup>]. **B.** [OSAA18]. **Bacescu** [FŠK<sup>+19</sup>]. **Bacillus** [OSAA18]. **Back** [BWP<sup>+19a</sup>, RHTC19a, PBBG19]. **bacteria** [DSSB18, EEMCEGSP16, PSBG<sup>+11</sup>, RHBMM13, STIG17, THW<sup>+12</sup>, TDLT<sup>+16</sup>, WZQ<sup>+16</sup>, YkSKY13, ZJDL18]. **Bacterial** [LST<sup>+12</sup>, RGD<sup>+12</sup>, SWH<sup>+14</sup>, BSSH17, BLFC12, BSBH10, CHV<sup>+12</sup>, DSA<sup>+12</sup>, DAB<sup>+12</sup>, GCNB16, GPFAG19, GDW<sup>+15</sup>, JAR<sup>+11</sup>, JSAH<sup>+18</sup>, KOB<sup>+17</sup>, LFH<sup>+11</sup>, LFL19, MFS<sup>+17</sup>, MDC<sup>+18</sup>, NFA15, PBC15, PHW<sup>+16</sup>, QWTL17, RSH11, RHB<sup>+15</sup>, VCN<sup>+10</sup>, WMM17, ZZA<sup>+14</sup>]. **bacterially** [SSV<sup>+10</sup>, TMM<sup>+15</sup>]. **bacterin** [PVIM18, SLKE10, WGL17]. **Bacteriological** [MCSM17, AdOG<sup>+17</sup>, EAM<sup>+13</sup>]. **Bacteriophage** [SPCR<sup>+19</sup>, EDP<sup>+17</sup>, HY16, LLL<sup>+18a</sup>]. **Bacteriophage-based** [SPCR<sup>+19</sup>]. **Bacteriovorax** [CHH<sup>+14</sup>]. **bacterium** [CSS<sup>+16</sup>, CHH<sup>+14</sup>, LDEH17, SPV<sup>+18</sup>]. **baculovirus** [RDN<sup>+12</sup>]. **Balantiocheilus** [RTM<sup>+15</sup>]. **ballan** [BT14, RSM<sup>+18</sup>, SRM<sup>+18</sup>, BVK<sup>+16</sup>, RSP<sup>+17</sup>]. **Baltic** [AHB<sup>+17</sup>, BMGS17, BK12, GJVT<sup>+11</sup>, OBD10]. **Bangweulu** [HHC<sup>+18</sup>]. **barb** [SMD<sup>+12</sup>]. **barbel** [ZPM<sup>+18</sup>]. **Barbonymus** [ARR<sup>+18</sup>]. **Barbus** [ZPM<sup>+18</sup>]. **barcoo** [KRD<sup>+17</sup>, LLH<sup>+14b</sup>, KRD<sup>+17</sup>, LLH<sup>+14b</sup>]. **barfin** [KKK<sup>+18</sup>]. **barotrauma** [HBB14, HFKF17, PSK<sup>+12</sup>]. **barracuda** [GMP<sup>+11</sup>, GMP<sup>+11</sup>]. **barramundi** [BO15, JHW17, TGJCH15]. **barrier**



[BSSB18, JSAH<sup>+</sup>18]. **base** [MMNL14]. **based**  
 [AS17, ÇOÇ<sup>+</sup>16, DPMK12, DIVC16, ELI<sup>+</sup>17, FSM<sup>+</sup>16, GCGR13, JKS<sup>+</sup>13,  
 LFH<sup>+</sup>11, MPBM<sup>+</sup>16, PSK<sup>+</sup>13, RB15, SPCR<sup>+</sup>19, TCFáS19, VLVS<sup>+</sup>16,  
 YLX<sup>+</sup>19a, ZWG<sup>+</sup>18, ZCJ<sup>+</sup>18, BMBS12, GCNB18]. **baseline** [GBV<sup>+</sup>16].  
**Basilewsky** [TIK<sup>+</sup>14a, TIK<sup>+</sup>14b, TQW<sup>+</sup>14]. **Basin**  
 [DAO19, SBW<sup>+</sup>18, FDL<sup>+</sup>17, MKKM15]. **Bass**  
 [CGAS19, BCBS<sup>+</sup>13, BVG<sup>+</sup>10, CKTT10, DBS12, FPK<sup>+</sup>17, JFWH19,  
 LMC<sup>+</sup>16, NOST<sup>+</sup>16, PBC15, PST<sup>+</sup>16, PBBG19, RGD<sup>+</sup>12, SBW<sup>+</sup>18,  
 SBM<sup>+</sup>11, SDJH16, TMC<sup>+</sup>12, TNK12, VTM<sup>+</sup>14, ZLX<sup>+</sup>19]. **batfish**  
 [LZGZ16]. **bath** [BCT<sup>+</sup>17, FHD13, GVB<sup>+</sup>17b, GVB<sup>+</sup>17a, RHS<sup>+</sup>12, SCR<sup>+</sup>15,  
 SOA<sup>+</sup>18, TNK12]. **bath-challenged** [SOA<sup>+</sup>18]. **batrachus** [BNC<sup>+</sup>11].  
**Baumann** [SNM<sup>+</sup>16]. **Bay** [PBBG19, NRF<sup>+</sup>18, SKB10]. **Bayesian**  
 [LMG<sup>+</sup>19]. **be** [DZV10, MBB12, PMH<sup>+</sup>11]. **bean**  
 [MTLP<sup>+</sup>18b, CHF<sup>+</sup>12, GM11]. **behaviour**  
 [AHAMR<sup>+</sup>19, BDD<sup>+</sup>18, DLLB<sup>+</sup>18, FHZ<sup>+</sup>16, HGH<sup>+</sup>18, OWM<sup>+</sup>17, SSK17].  
**Behavioural** [FSB18a]. **being** [PSZ<sup>+</sup>14]. **Belar** [DT16]. **bellied**  
 [EDSL11, LYD<sup>+</sup>15]. **Bench** [EAM<sup>+</sup>13]. **Bench-top** [EAM<sup>+</sup>13]. **benefits**  
 [GCGR13]. **Bengal** [PRWG17]. **benign** [VPCM19]. **Bennett** [WA14].  
**benzisoxazole** [SRD<sup>+</sup>16]. **benzoate** [GSS<sup>+</sup>10, HLHS11, IPW<sup>+</sup>13, JHGR13,  
 KWGS19, LML12, PPI<sup>+</sup>13, SMR10, SMM<sup>+</sup>13, Sam10, WWE<sup>+</sup>13]. **bergylta**  
 [BVK<sup>+</sup>16, BT14, RSP<sup>+</sup>17, RSM<sup>+</sup>18, SRM<sup>+</sup>18]. **Bering** [WMF14]. **Bermuda**  
 [BGC<sup>+</sup>17]. **best** [JMD<sup>+</sup>18, MMH<sup>+</sup>18]. **bestor** [RHSM<sup>+</sup>18b]. **Beta**  
 [SJSA<sup>+</sup>14, LSA<sup>+</sup>15, NYRS12]. **beta-2** [LSA<sup>+</sup>15]. **Beta-glucan** [SJSA<sup>+</sup>14].  
**Betanodavirus** [KCD<sup>+</sup>14, LNC<sup>+</sup>17, MPJ<sup>+</sup>15, PST<sup>+</sup>16, SOA<sup>+</sup>18, TDS<sup>+</sup>19,  
 Bin14, CGG<sup>+</sup>10, DTM<sup>+</sup>10, HGB<sup>+</sup>11, HLP<sup>+</sup>16, KTP<sup>+</sup>15, KKK<sup>+</sup>18, KKM<sup>+</sup>19,  
 NOST<sup>+</sup>16, SODB16, SOGR<sup>+</sup>19, VTM<sup>+</sup>14, Wen16, WCL<sup>+</sup>12, FCM<sup>+</sup>19].  
**Betanodavirus-associated** [KCD<sup>+</sup>14]. **betanodaviruses**  
 [BBC<sup>+</sup>10, BCL<sup>+</sup>19, VGP<sup>+</sup>18]. **Betta** [RhAS<sup>+</sup>15]. **between**  
 [BLFRCQ10, FNISE12, JWO<sup>+</sup>10, JLJ16, KHG<sup>+</sup>17, LMC<sup>+</sup>16, LZZN10,  
 LLS<sup>+</sup>11, MSC<sup>+</sup>17, MMH10, OLT<sup>+</sup>10, SL15, VC17, WKK12]. **bias**  
 [CXK16, MLH<sup>+</sup>15]. **bidyana** [FHD13]. **Bidyanus** [FHD13]. **bigeye**  
 [HHM<sup>+</sup>14]. **binding** [vGJHS<sup>+</sup>11, YHY<sup>+</sup>16, ZGY<sup>+</sup>18, WCL<sup>+</sup>19]. **bioassay**  
 [HH13b, HBS<sup>+</sup>14]. **bioassays** [HH13a, MMH<sup>+</sup>18, SMM<sup>+</sup>13]. **Biochemical**  
 [SSV<sup>+</sup>17, DPTCF10, TAC15]. **biochemistry** [BHA<sup>+</sup>17, LWMT10].  
**Biocontrol** [GPFAG19, CHH<sup>+</sup>14]. **bioenergetics** [BSV<sup>+</sup>18]. **biofilm**  
 [ASS19, CD17, DSSB18, DSSB19, LFD<sup>+</sup>17, LITCAH19b, SW11].  
**biofilm-forming** [CD17]. **Biography** [HR15, PBW14]. **Biological**  
 [LQL<sup>+</sup>10, MSS<sup>+</sup>17a, SDI<sup>+</sup>18]. **biologically** [RHB<sup>+</sup>15]. **Biology**  
 [Spe19a, LYKN18]. **bioluminescence** [BKD17]. **biomarker**  
 [BMT<sup>+</sup>15, FBK<sup>+</sup>16]. **biomarkers** [BMGS17]. **biomass** [MMG<sup>+</sup>11].  
**biomolecular** [GMB<sup>+</sup>17]. **biophysical** [SCF<sup>+</sup>13]. **biopolymer** [BYAS<sup>+</sup>19].  
**biopsy** [CMS<sup>+</sup>19, TMWV14]. **biosecurity** [NSC<sup>+</sup>15, TJR<sup>+</sup>18]. **biotype**  
 [FLVA10, SON<sup>+</sup>18]. **biphasic** [MLWC11]. **bivalve** [ACYC10, VGP<sup>+</sup>18].  
**Bivalvulida** [LJHG14, LRB<sup>+</sup>17]. **Bizerte** [YB17]. **BKD** [BSSH17]. **black**

[BCT<sup>+17</sup>, BPF<sup>+18</sup>, DCMM13, DBM<sup>+14</sup>, GPWF19, HKK<sup>+11a</sup>, LLDL13, PSK<sup>+13</sup>, PSK<sup>+12</sup>, SHW<sup>+11</sup>, SHS14, SRSF10, SHAM14, SMS<sup>+19</sup>, XWP<sup>+18</sup>, ZxYJ<sup>+19</sup>]. **blackeye** [HSGD11]. **blacktip** [PC17]. **bladder** [BMD<sup>+14</sup>, BCG<sup>+17</sup>, RKH18]. **Bleeker** [BRMG13, BCJ13, DCV<sup>+14</sup>, LYD<sup>+15</sup>, LLDL13, RTM<sup>+15</sup>, WZL<sup>+11</sup>]. **Bloch** [BFFA<sup>+12</sup>, BO15, CLWJ13, CBH<sup>+15</sup>, CCM<sup>+11</sup>, DDBC<sup>+15</sup>, GKCC<sup>+12</sup>, GHW<sup>+15</sup>, HSGD11, HHM<sup>+14</sup>, JHW17, LJHG14, LLL<sup>+13</sup>, TGJCH15, WXL16, YLW<sup>+14</sup>, ZWLG10]. **blochii** [AZSI<sup>+12</sup>, CWL<sup>+17</sup>, WKW13]. **Blood** [BSSB18, CMS<sup>+19</sup>, Lek12, AI11, DPTCF10, WXL16, YSV<sup>+13</sup>]. **blood-free** [YSV<sup>+13</sup>]. **blooded** [SAS<sup>+19</sup>]. **bloom** [KPM<sup>+11</sup>]. **blotched** [CDM<sup>+16</sup>]. **blotting** [LCR<sup>+10</sup>]. **blue** [BRL<sup>+13</sup>, FSM<sup>+16</sup>, HBH<sup>+19</sup>, KEY<sup>+15</sup>, RGMGG<sup>+18</sup>, XKBC12]. **bluefin** [CZB<sup>+11</sup>, PSZ<sup>+14</sup>]. **Bluegill** [LEM<sup>+19</sup>, BMA13, DWL<sup>+17</sup>, LDEH17, LFL19, LEM<sup>+19</sup>]. **Body** [PPK<sup>+13</sup>, LL11, LGS<sup>+14</sup>, SSL18]. **Bonamia** [BLSG<sup>+16</sup>, BWP<sup>+19b</sup>]. **bonasus** [BB11, VPCM19]. **bone** [ARL<sup>+17</sup>]. **Bonnaterre** [JK12]. **bonnethead** [CBC<sup>+13</sup>, MCWL13]. **Book** [Rob10]. **Boone** [CMEV17a, CMS<sup>+17</sup>, CMEV17b, CLW<sup>+13</sup>, HNV<sup>+17</sup>, HXZ<sup>+16</sup>, SSV<sup>+17</sup>, STG<sup>+10</sup>, SNM<sup>+16</sup>, TMM<sup>+15</sup>, TDLT<sup>+16</sup>, TDT<sup>+16</sup>]. **border** [NSC<sup>+15</sup>]. **botanically** [OWM<sup>+17</sup>]. **both** [CGW<sup>+19</sup>, CBM<sup>+18</sup>]. **Boulenger** [SHAM14]. **bovis** [LRC<sup>+18</sup>]. **Boxhall** [HBS<sup>+14</sup>]. **Boxshall** [GAVC16, MSMM19, MGM<sup>+18</sup>]. **Brachydanio** [Bin14]. **brachypomus** [FCS<sup>+18</sup>]. **brachyurus** [RBF14]. **brackish** [NOV<sup>+11</sup>]. **brain** [BSSB18, CLL<sup>+10</sup>, OKS<sup>+13</sup>, SON<sup>+18</sup>, WWZ<sup>+18</sup>, WZW<sup>+18</sup>, WKW13, Wen16, XJL<sup>+19</sup>, YCNW18]. **branchial** [BSD<sup>+18b</sup>]. **branchialis** [BSWS11]. **Branchinella** [SHW<sup>+11</sup>]. **Branchiomonas** [WNGS<sup>+17</sup>]. **Branchiomycosis** [PdSG<sup>+12</sup>]. **branchiophilum** [GDW<sup>+15</sup>]. **Brandt** [RFA<sup>+14</sup>]. **Bravo** [GAVC16, HBS<sup>+14</sup>, MSMM19, MGM<sup>+18</sup>]. **Brazil** [CMSHS16, CdAPdC<sup>+19</sup>, FCS<sup>+18</sup>, MdOO16]. **Brazilian** [ARL<sup>+17</sup>, CLS<sup>+15</sup>, FLC<sup>+17</sup>, MDC<sup>+18</sup>, PdSG<sup>+12</sup>, SPKS17]. **breakdown** [BSSB18]. **bream** [ACSB<sup>+19</sup>, BC11, DJQ<sup>+12</sup>, DdRTM13, DPCdR14, Dig13, Dig15, JKH<sup>+17</sup>, JJV<sup>+15</sup>, JLJ16, KPT<sup>+11</sup>, KHC<sup>+18</sup>, KLW10, LGS<sup>+14</sup>, MSS<sup>+17b</sup>, Pol15, RHVG<sup>+19b</sup>, TPD<sup>+19</sup>]. **bred** [ADR11, XLZ<sup>+17</sup>]. **Breeding** [VST<sup>+19</sup>, SSO<sup>+14</sup>]. **brevifilum** [SFBW<sup>+17</sup>]. **brevirostris** [JMhk18]. **brevirostrum** [LGK<sup>+14</sup>]. **brill** [LPVGL<sup>+10</sup>]. **British** [BPPKJ10, BHT<sup>+17</sup>, MMB<sup>+15</sup>, SMR10, SMM<sup>+13</sup>, TVK<sup>+19</sup>]. **broadly** [KWD<sup>+16</sup>]. **Bromodeoxyuridine** [EPCSBP18]. **bronze** [RBF14]. **brood** [ZZQ<sup>+19</sup>]. **broodfish** [WNSAL12]. **broodstock** [LMG<sup>+19</sup>, LPCC12, MMH10, RDN<sup>+12</sup>, SBP<sup>+19</sup>]. **brook** [DGS<sup>+14</sup>]. **Broth** [YVM<sup>+14</sup>, GCW17]. **brown** [AGFG19, BSPS<sup>+18</sup>, KHG<sup>+17</sup>, KFK<sup>+16</sup>, LSC<sup>+14</sup>, LSA<sup>+15</sup>, OSC<sup>+14</sup>, PGF<sup>+19</sup>, PHR14, SVV<sup>+17</sup>, Wen16, YB17]. **brown-marbled** [LSC<sup>+14</sup>, LSA<sup>+15</sup>, Wen16]. **Brunswick** [BSSH17, EWRH13, GVB<sup>+17b</sup>]. **bryosalmonae** [BSPS<sup>+18</sup>, BPPKJ10, JZK<sup>+14</sup>, KAEM13, LUP<sup>+18</sup>, MJ17, Mor12].

**bubble** [RPJ<sup>+</sup>18]. **Buchanan** [Bin14, CXK16]. **Buenos** [Lek12]. **bulbus** [DKG<sup>+</sup>17, YP17]. **Bulgaria** [OSC<sup>+</sup>14]. **bullhead** [BPF<sup>+</sup>18, PHR14]. **burbot** [PFJ<sup>+</sup>10]. **Burchell** [DAO19, HGPD11, HOHG13, LvD18, OOO<sup>+</sup>11, OAO<sup>+</sup>12, SRT<sup>+</sup>14, TMWV14]. **burdens** [GVB<sup>+</sup>17b]. **Burm.f** [HDC18]. **burst** [CHAB10, UKS<sup>+</sup>18]. **butterfly** [BCJ13]. **buttnerae** [OMB<sup>+</sup>19]. **bv** [ZWL<sup>+</sup>16]. **by-products** [LKS<sup>+</sup>13, MMNL14].

**C** [JCN<sup>+</sup>14, OTN<sup>+</sup>12, OKS<sup>+</sup>13, GMN12, HPAL10, Sam10, SG12]. **C.** [ZWLG10]. **C6** [GCNB16, APG<sup>+</sup>11, HO13]. **C6-6** [GCNB16]. **C6/** [APG<sup>+</sup>11, HO13]. **Ca** [AFTEML19, WNGS<sup>+</sup>17]. **Ca/P** [AFTEML19]. **cactaceae** [BAH<sup>+</sup>16]. **cage** [AZSI<sup>+</sup>12, GBV<sup>+</sup>16, LHW<sup>+</sup>15a, SPS<sup>+</sup>17, SZZSFN<sup>+</sup>14, TWYC15, XQS<sup>+</sup>15, ZxYJ<sup>+</sup>19]. **cage-cultured** [AZSI<sup>+</sup>12, SZZSFN<sup>+</sup>14, ZxYJ<sup>+</sup>19]. **cage-farmed** [SPS<sup>+</sup>17]. **cage-level** [GBV<sup>+</sup>16]. **cage-reared** [LHW<sup>+</sup>15a, XQS<sup>+</sup>15]. **cainii** [ABF15]. **calcarifer** [BO15, GKCC<sup>+</sup>12, JHW17, KNN19, SDM<sup>+</sup>19, TGJCH15]. **California** [CGAS19, GCCLRP<sup>+</sup>13, KHS11]. **californiensis** [VCLW16]. **Caligidae** [FSB18a, KJB11, NLC<sup>+</sup>16]. **Caligus** [BNS13, FVAVMGE18, GAVC16, GOM<sup>+</sup>19, HLHS11, HBS<sup>+</sup>14, MSMM19, MGM<sup>+</sup>18, STIG17, VMBGE17, YAHWU11]. **Callinectes** [FSM<sup>+</sup>16]. **campbellii** [NDA<sup>+</sup>19, WBF<sup>+</sup>10]. **Can** [BMK17, DZV10, LPA<sup>+</sup>10]. **Canada** [BSSH17, BPPKJ10, EWRH13, FSV<sup>+</sup>18, FSB<sup>+</sup>18c, GL18, GVB<sup>+</sup>17b, KHLL16, LGK<sup>+</sup>14, LLLG18, LDA<sup>+</sup>19, MMB<sup>+</sup>15, MMD16, NRF<sup>+</sup>18, SMM<sup>+</sup>13, SCD19, SGQ<sup>+</sup>15, SQC<sup>+</sup>14, TVK<sup>+</sup>19]. **Canadian** [VC17]. **canadum** [CLL<sup>+</sup>10, HCL<sup>+</sup>14, HSHC<sup>+</sup>16, PSS17, SPS<sup>+</sup>17, TWYC15]. **Cancer** [SWH<sup>+</sup>14]. **candidate** [LMC<sup>+</sup>16, SCK13]. **candidates** [ABF15, BLFC12, JKC<sup>+</sup>11]. **Candidatus** [DPTFC10, MSR<sup>+</sup>10, SPV<sup>+</sup>18]. **Cantor** [LL12]. **CAP18** [CMH<sup>+</sup>17]. **capensis** [MVWS13]. **Capillariidae** [MWRSK17]. **capillata** [PÅD18]. **Capsalidae** [HSHC<sup>+</sup>16, TGJCH15]. **capsid** [CGG<sup>+</sup>10, FMT<sup>+</sup>14, SCK13, SOGR<sup>+</sup>19]. **capsomers** [LRD<sup>+</sup>19]. **Capsular** [ZKL<sup>+</sup>19]. **capsulated** [CLT<sup>+</sup>14]. **captive** [ADR11, BDB<sup>+</sup>18, CHF<sup>+</sup>12, HSGD11, JK12, LYD<sup>+</sup>15, MCWL13, RTM<sup>+</sup>15, SBM<sup>+</sup>11]. **captive-bred** [ADR11]. **captive-raised** [SBM<sup>+</sup>11]. **captivity** [HFKF17, MS16, RBWR<sup>+</sup>15]. **capture** [WNL<sup>+</sup>12]. **capturing** [OLVJ<sup>+</sup>13]. **carapo** [VMCM14]. **Carassius** [BBL<sup>+</sup>16, FCC<sup>+</sup>13, FSC<sup>+</sup>16, GAEK<sup>+</sup>14, KKOY19, KJW<sup>+</sup>17, LJHG14, LCR<sup>+</sup>10, LLL<sup>+</sup>13, NSS<sup>+</sup>17, RMAM12, WXL16, WIC<sup>+</sup>19, YNL11, YLW<sup>+</sup>14, ZWLG10]. **Carcharhinus** [PC17, RBF14]. **Carcharias** [LL11, HKF<sup>+</sup>16, RBF14]. **Carcharodon** [HKF<sup>+</sup>16, RBF14]. **carcinoma** [SHAM14, TIK<sup>+</sup>14b, VPCM19]. **cardiac** [GRT12, YLW<sup>+</sup>14]. **cardinal** [LLG<sup>+</sup>15, RKH17]. **Cardiomyopathy** [GFS<sup>+</sup>18, RMR14, SNK<sup>+</sup>19, WNL<sup>+</sup>12]. **cardiorespiratory** [PG16]. **Caribbean** [PRWG17, SBK<sup>+</sup>13]. **Carp** [ABVS18, MBS<sup>+</sup>17, ARR<sup>+</sup>18, ATJS<sup>+</sup>18, AI11, BSK<sup>+</sup>10, BMK17, CLC<sup>+</sup>17, CR12, CCT<sup>+</sup>11, EBM<sup>+</sup>18, FBS13, FSV<sup>+</sup>14, GSEM13, GSBEM15, GFS<sup>+</sup>14,

GCWB11, JDRM17, JAR<sup>+11</sup>, JSAH<sup>+18</sup>, KKOY19, KJW<sup>+17</sup>, KPM<sup>+11</sup>, LWJ<sup>+16</sup>, LLL<sup>+12</sup>, LLZW14, LJHG14, LXHL11, LLL<sup>+13</sup>, MPBM<sup>+16</sup>, MSB<sup>+19</sup>, MSS<sup>+17a</sup>, MGN<sup>+16</sup>, MTA<sup>+15</sup>, MTAB15, OSAA18, OCLI<sup>+19</sup>, PTM<sup>+19</sup>, PFP<sup>+13</sup>, SGB<sup>+16</sup>, SBD11, SKN<sup>+16</sup>, SEM18, SRB12, SJSA<sup>+14</sup>, TIK<sup>+14b</sup>, VCN<sup>+10</sup>, WXL16, WCR<sup>+18</sup>, XWP<sup>+18</sup>, YFA<sup>+17</sup>, YLW<sup>+14</sup>, YkSKY13, YYW<sup>+14</sup>, ZWG<sup>+18</sup>, ZWLG10, ZYW<sup>+10</sup>. **carpet** [CIA<sup>+18</sup>, DABO<sup>+17</sup>]. **carpio** [AI11, BLFRCQ10, BDM<sup>+18</sup>, CLC<sup>+17</sup>, CR12, CCT<sup>+11</sup>, CLHGK17, FSV<sup>+14</sup>, GJM<sup>+15</sup>, GSEM13, HDC18, JDRM17, JAR<sup>+11</sup>, JSAH<sup>+18</sup>, KPM<sup>+11</sup>, LWJ<sup>+16</sup>, LLZW14, MBS<sup>+17</sup>, MSS<sup>+17a</sup>, MTA<sup>+15</sup>, MTAB15, OSAA18, OCLI<sup>+19</sup>, PFP<sup>+13</sup>, RHZA<sup>+16</sup>, SBD11, SRB12, SJSA<sup>+14</sup>, VCN<sup>+10</sup>, WPH<sup>+13</sup>, WZW<sup>+18</sup>, YFA<sup>+17</sup>]. **Carrier** [FLCC<sup>+14</sup>, PFJ<sup>+10</sup>, SBH<sup>+16</sup>]. **Cartilage** [YP17]. **Caryophyllidea** [SBD11]. **Case** [BSSH17, CLHGK17, LGK<sup>+14</sup>, AHJS<sup>+18</sup>, ALG15, ATP<sup>+16</sup>, ARFG13, BMK17, BO15, CIA<sup>+18</sup>, DBHC17, DML<sup>+16</sup>, FKB<sup>+14</sup>, JDRM17, JR19, LL12, MNF<sup>+15</sup>, OLVJ<sup>+13</sup>, OOO<sup>+11</sup>, TIK<sup>+14a</sup>]. **casein** [PMH<sup>+11</sup>, SJDC<sup>+13</sup>]. **cases** [DSJA18]. **caspase** [LBF<sup>+14</sup>, RCGGM15]. **caspase-1** [RCGGM15]. **caspase-3-positive** [LBF<sup>+14</sup>]. **cataract** [ALG15, SFR<sup>+17</sup>]. **cataracts** [JHRW17]. **Catarina** [CdAPdC<sup>+19</sup>]. **catchment** [DIH<sup>+16</sup>, HHC<sup>+18</sup>]. **catecholamine** [DSSB19]. **catfish** [BNC<sup>+11</sup>, BSV<sup>+18</sup>, BSSB18, BSD<sup>+18b</sup>, BSD<sup>+18a</sup>, BSD<sup>+18d</sup>, BAD<sup>+12</sup>, BBF<sup>+15</sup>, BPF<sup>+18</sup>, CCMA<sup>+17</sup>, CTK<sup>+10</sup>, DD15, DAO19, EAN<sup>+18</sup>, HGPD11, HOHG13, KMGK<sup>+18</sup>, LTC<sup>+14</sup>, LLWL15, MP18, MAOS<sup>+18</sup>, OOO<sup>+11</sup>, OAO<sup>+12</sup>, PRWG17, PRSK10, PMK12, RKPG16, SMV<sup>+14</sup>, SLPB18, SZZSFN<sup>+14</sup>, SMFM12, SRT<sup>+14</sup>, TMWV14, VST<sup>+19</sup>, XKBC12, YSK13, YK13]. **Catostomus** [MGN<sup>+16</sup>]. **caudal** [ASW16, PWHW18b]. **caught** [CNN<sup>+10</sup>, HFKF17, MIO<sup>+18</sup>, RBWR<sup>+15</sup>, RSM<sup>+18</sup>, SDZN19]. **causal** [ACM<sup>+14</sup>, SSF<sup>+17</sup>]. **causative** [CPP14, KEY<sup>+15</sup>, MFS<sup>+17</sup>, RGD<sup>+13</sup>, WEPB<sup>+18</sup>, ZWG<sup>+17</sup>]. **cause** [HB12, LCZ<sup>+18</sup>]. **caused** [APP<sup>+17</sup>, AHTCA<sup>+17</sup>, CONN10, DDBC<sup>+15</sup>, DTJ<sup>+17</sup>, EEMCEGSP16, GVC<sup>+19</sup>, KAF<sup>+19</sup>, LLH<sup>+14a</sup>, MKY<sup>+15</sup>, MGM<sup>+16</sup>, MAOS<sup>+18</sup>, MCCN14, NBJ10, NDA10, PHVM13, ŔKH18, RSP<sup>+17</sup>, RRG<sup>+19</sup>, TSK<sup>+19</sup>, ZZA<sup>+14</sup>, dSdAdS<sup>+19</sup>]. **causes** [LDÁM14, PZL<sup>+14</sup>, QZZ<sup>+18b</sup>, SSK17]. **causing** [BMMC<sup>+15</sup>, BPF<sup>+18</sup>, DD18, KYB<sup>+15</sup>, LPC<sup>+18</sup>, PRY<sup>+18</sup>, QWTL17, SPP<sup>+18</sup>, TOK<sup>+16</sup>, WZQ<sup>+16</sup>, ZWL<sup>+16</sup>]. **caution** [KZJ<sup>+17</sup>]. **Cavernous** [SMD<sup>+12</sup>]. **caviae** [BSV<sup>+18</sup>, BSB<sup>+18</sup>]. **CD3** [RBL<sup>+11</sup>]. **cefotaxime** [GTGCM19]. **cel** [XXL<sup>+19</sup>]. **cel-EIIB** [XXL<sup>+19</sup>]. **Cell** [DLP<sup>+13</sup>, AI11, AGB<sup>+19</sup>, APG<sup>+11</sup>, BNC<sup>+11</sup>, BAMYAH19, BKG<sup>+18</sup>, CHWM<sup>+19</sup>, CLL<sup>+10</sup>, CD17, CGCAH12, DMD<sup>+17</sup>, EYF<sup>+19</sup>, GHH<sup>+11</sup>, GM10, GSBEM15, GBSF12, GHW<sup>+15</sup>, HGW<sup>+19</sup>, HO13, HCW<sup>+16</sup>, IFF<sup>+15</sup>, JMF<sup>+18</sup>, JJS<sup>+12</sup>, KLW10, LJC<sup>+19</sup>, LSC<sup>+14</sup>, MVM<sup>+18</sup>, MB17, MTHB13, NMV<sup>+19</sup>, NSE<sup>+17</sup>, NYRS12, PWHW18b, PWW19, PMW<sup>+10</sup>, PPF<sup>+12</sup>, RPMRLJ<sup>+19</sup>, RBL<sup>+11</sup>, SVL<sup>+17</sup>, SHAM14, SSG<sup>+19</sup>, SDR<sup>+15</sup>, TQW<sup>+14</sup>, TDT<sup>+16</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, VKK<sup>+19</sup>, WBF<sup>+10</sup>, WWS<sup>+11</sup>, WWZ<sup>+18</sup>, WZW<sup>+18</sup>, WCL<sup>+19</sup>,

WKW13, Wen16, WCW<sup>+16b</sup>, WBD<sup>+10b</sup>, XWP<sup>+18</sup>, YNL11, YCNW18].  
**cell-free** [MB17]. **cell-infecting** [WCW<sup>+16b</sup>]. **cells**  
 [AHPR<sup>+16</sup>, AJLC<sup>+16</sup>, BCLM<sup>+19</sup>, BGD<sup>+17</sup>, BDM<sup>+18</sup>, CCCTA<sup>+14</sup>,  
 CXW<sup>+19</sup>, DPC<sup>+10</sup>, DPADO16, GIW<sup>+11</sup>, GCM<sup>+18b</sup>, IFF<sup>+15</sup>, LDÁM14,  
 Lek12, LASRA<sup>+19</sup>, LBF<sup>+14</sup>, OMO<sup>+15</sup>, PMH<sup>+11</sup>, PSR<sup>+11</sup>, PPK<sup>+13</sup>, RSB13,  
 RCGGM15, SHKF16, SJT14, WXL16, WBD<sup>+10b</sup>, XJL<sup>+19</sup>]. **cells-infecting**  
 [OMO<sup>+15</sup>]. **Cellular** [ASA10, CRS<sup>+13</sup>, YHY<sup>+16</sup>]. **Celtic** [RBWR<sup>+15</sup>].  
**central** [SMJ<sup>+14</sup>, GFB<sup>+13</sup>]. **centres** [PSZ<sup>+14</sup>]. **centrifugation**  
 [DLCC<sup>+13</sup>, MTHB13]. **centroura** [CBFM16]. **Cephalotheca** [ŘKH16].  
**cephalus** [MVWS13]. **Cerastoderma** [RAVC18]. **Ceratomyxa** [HB12].  
**cerebralis** [FCJH19, MKKM15]. **cernuus** [MGM<sup>+16</sup>]. **Cestoda**  
 [BB11, BCJ13, SBD11]. **cestode** [WFH<sup>+18</sup>]. **ceti**  
 [CLS<sup>+15</sup>, GMC<sup>+16b</sup>, MHN18]. **CEV** [MSB<sup>+19</sup>, RAM<sup>+18</sup>]. **cf** [MdOO16].  
**chain** [BHT<sup>+17</sup>, LSA<sup>+15</sup>, NYRS12, TSS18, THW<sup>+12</sup>, YEK<sup>+17</sup>].  
**chalcogramma** [WMF14]. **Challenge**  
 [BVK<sup>+16</sup>, CCLGRM<sup>+17</sup>, CAJD<sup>+18</sup>, CRS<sup>+13</sup>, CTK<sup>+10</sup>, GMC<sup>+16b</sup>, GFM<sup>+11</sup>,  
 GBSF12, JAR<sup>+11</sup>, JSAH<sup>+18</sup>, KBTMH<sup>+16</sup>, MRN<sup>+19</sup>, MAC<sup>+15</sup>, MID<sup>+19b</sup>,  
 MID<sup>+19a</sup>, NSE<sup>+17</sup>, PYSS19, SGB<sup>+16</sup>, SPCR<sup>+19</sup>, SSC17, TTL<sup>+16</sup>, ZWL<sup>+14</sup>].  
**challenged** [LF16, NNCLGC<sup>+11</sup>, RCGGM15, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, SOA<sup>+18</sup>,  
 SCS<sup>+12</sup>, TSS18, ZJR<sup>+18</sup>]. **Change** [OKS<sup>+13</sup>, TTL<sup>+16</sup>]. **Changes**  
 [CHWM<sup>+19</sup>, DCZ<sup>+17</sup>, GTGCM19, VCN<sup>+10</sup>, YK13, ACLP<sup>+19</sup>, BCBS<sup>+13</sup>,  
 BHO<sup>+19</sup>, CSA<sup>+15</sup>, DTF<sup>+16</sup>, DPTCF10, DAO19, FvdMF<sup>+18</sup>, GFM<sup>+16</sup>,  
 JKL<sup>+13</sup>, LDÁM14, LF16, MAOS<sup>+18</sup>, PAM<sup>+19</sup>, PCK<sup>+15</sup>, SSV<sup>+17</sup>,  
 SOGR<sup>+19</sup>, TQW<sup>+14</sup>]. **changing** [JR19]. **Channa**  
 [CLZ<sup>+12</sup>, DIH<sup>+16</sup>, LGC<sup>+19</sup>]. **channel** [BBF<sup>+15</sup>, LLWL15, MP18, PRSK10,  
 PMK12, RKPG16, SZSFN<sup>+14</sup>, SMFM12, YSK13, YK13]. **Chanodichthys**  
 [TIK<sup>+14b</sup>]. **chaperone** [MFHHG18]. **chaperones** [RAS<sup>+10</sup>]. **Chapin**  
 [STF<sup>+15</sup>]. **char** [SWM<sup>+15</sup>]. **Characidae** [Lek12]. **characteristics**  
 [CD17, HKK<sup>+11b</sup>, LQL<sup>+10</sup>, MB17, OLVJ<sup>+13</sup>, TWYC15, WZA10].  
**Characterization** [ACM<sup>+14</sup>, CMSHS16, CD17, CCME16, CLS<sup>+15</sup>,  
 EDP<sup>+17</sup>, GLW<sup>+18</sup>, HBVB16, KYB<sup>+15</sup>, LLL<sup>+18a</sup>, PFJ<sup>+10</sup>, PRY<sup>+18</sup>, RB15,  
 VKK<sup>+19</sup>, Wen16, WNLF<sup>+12</sup>, YCNW18, BNC<sup>+11</sup>, BPF<sup>+18</sup>, BCL<sup>+19</sup>,  
 BCM<sup>+17</sup>, BDM<sup>+18</sup>, CLZ<sup>+12</sup>, CCLL16, CLL<sup>+10</sup>, DTF<sup>+16</sup>, DLCF13,  
 DPADO16, DLPR15, DKBS17, DMK<sup>+19</sup>, ERÁpSB14, FDL<sup>+17</sup>, FMA<sup>+19</sup>,  
 GJM<sup>+15</sup>, GBO<sup>+18</sup>, GHH<sup>+11</sup>, GFS<sup>+14</sup>, GGGM14, HJT<sup>+16</sup>, HY16, HLC<sup>+15</sup>,  
 HHX<sup>+15</sup>, HCW<sup>+16</sup>, IGLG<sup>+17</sup>, KTP<sup>+15</sup>, KLW10, LJC<sup>+19</sup>, LCC<sup>+15</sup>,  
 LRB<sup>+17</sup>, MFHHG18, NYRS12, NSC<sup>+15</sup>, OLVJ<sup>+13</sup>, OFA11, OGI<sup>+18</sup>,  
 PWHW18b, PKPG15, PSBG<sup>+11</sup>, PAZ18, PLC<sup>+19b</sup>, RGMGG<sup>+18</sup>, RVC18,  
 SRSF10, SDWA18, SDZN19, SPS<sup>+17</sup>, SMV<sup>+14</sup>, SMS<sup>+19</sup>, SSO<sup>+14</sup>, SMC<sup>+11</sup>,  
 TPD<sup>+19</sup>, VMBGIC19, VGP<sup>+18</sup>, WWS<sup>+11</sup>, WWZ<sup>+18</sup>, WZW<sup>+18</sup>, WCL<sup>+19</sup>,  
 YNL11, YK12, YMH<sup>+11</sup>, YLS<sup>+19</sup>, ZQB<sup>+11</sup>, ZB12, ZWG<sup>+17</sup>]. **characterize**  
 [BWM<sup>+13</sup>, TAC15]. **characterized** [GTT<sup>+17</sup>]. **charr** [SVL<sup>+17</sup>, WKK12].  
**Chasmistes** [JMHK18]. **che** [FMA<sup>+19</sup>]. **chelonae** [CBW19]. **Chemical**  
 [OBD10, SHS14]. **chemicals** [TFG19]. **Chemotactic** [YSK13].

**chemotherapeutants** [MMH<sup>+</sup>18]. **Chen** [SS17]. **Cherax** [ABF15]. **Chesapeake** [SKB10]. **Chile** [AAUHW15, BNS13, CRAG<sup>+</sup>12, GGH<sup>+</sup>10, HBS<sup>+</sup>14, MSMM19, PBMB11, VDMJ<sup>+</sup>13, YAHWU11]. **Chilean** [AHTCA<sup>+</sup>17, CIL<sup>+</sup>17, CCCTA<sup>+</sup>14, FCL<sup>+</sup>19, HBB<sup>+</sup>15, HKB<sup>+</sup>16, IGLG<sup>+</sup>17, ISCF<sup>+</sup>19, LCV<sup>+</sup>17]. **Chilean-farmed** [AHTCA<sup>+</sup>17]. **chilensis** [IGLG<sup>+</sup>17]. **Chilodonella** [GJMH17]. **chilodonellosis** [BO15]. **Chilodonellidae** [GJMH17]. **Chiloscyllium** [CIA<sup>+</sup>18]. **Chimaera** [DRdS<sup>+</sup>10]. **chimeric** [EBM<sup>+</sup>18]. **China** [LZGZ16, LHW<sup>+</sup>15a, LXL<sup>+</sup>18, CWW<sup>+</sup>18, HHX<sup>+</sup>15, LYL<sup>+</sup>18, LQY11, LL12, LLH<sup>+</sup>14b, LJHG14, LXX<sup>+</sup>17, WZL<sup>+</sup>11, XLZ<sup>+</sup>17, YLSW14, ZYW<sup>+</sup>10, ZSZF16, ZLX<sup>+</sup>19, ZCC18, ZDWH18]. **chinensis** [WLX<sup>+</sup>10]. **Chinese** [DML<sup>+</sup>16, DCZ<sup>+</sup>17, DCL<sup>+</sup>17, FGJ<sup>+</sup>10, SCS<sup>+</sup>12, WLX<sup>+</sup>10, YMH<sup>+</sup>11, ZB12]. **Chinook** [BHT<sup>+</sup>17, BMH<sup>+</sup>19, DWP<sup>+</sup>19, DPD<sup>+</sup>18, GMC<sup>+</sup>16a, GBO<sup>+</sup>18, GTH11, LST<sup>+</sup>12, LF16, LF18, LWMT10, MPS<sup>+</sup>18, PMPG<sup>+</sup>16, STF<sup>+</sup>15]. **chitosan** [BYAS<sup>+</sup>19, LLDL13, RSGB<sup>+</sup>14]. **Chlamydiales** [SPV<sup>+</sup>18]. **chloramine** [BA14]. **chloramine-T** [BA14]. **chloride** [CHWM<sup>+</sup>19, MMD<sup>+</sup>12, MGF17, RHS<sup>+</sup>12]. **chloride-induced** [MGF17]. **chlorine** [DD18, MWRSK17]. **chloropiperidin** [SRD<sup>+</sup>16]. **Cholangioma** [vD14]. **cholerae** [ZCZ<sup>+</sup>17]. **cholinergic** [BSD<sup>+</sup>18b]. **chondracanthid** [ABC<sup>+</sup>10]. **Chondracanthus** [ABC<sup>+</sup>10]. **Chondrichthyes** [DRdS<sup>+</sup>10]. **chorion** [SWS<sup>+</sup>16]. **chromatography** [KKT<sup>+</sup>18b, KKT<sup>+</sup>18a]. **chromogenes** [LHW<sup>+</sup>12]. **chromogenic** [CPEH15]. **Chronic** [KPT<sup>+</sup>11, LLH<sup>+</sup>14a, MKY<sup>+</sup>15, SJJ14]. **Chryseobacterium** [IAR<sup>+</sup>10, PSVK<sup>+</sup>18]. **chrysops** [DBS12]. **chuatsi** [TIK<sup>+</sup>14a, TQW<sup>+</sup>14]. **chum** [DPADO16, KBE<sup>+</sup>14, MUM<sup>+</sup>19]. **cichlid** [LFSZ18, RHST<sup>+</sup>16, RhMM<sup>+</sup>15, RhMV<sup>+</sup>15]. **cichlids** [dASLS<sup>+</sup>19]. **ciliate** [AJLK<sup>+</sup>18, vGJKR<sup>+</sup>17, YYW<sup>+</sup>14]. **ciliates** [GJMH17]. **Ciliophora** [SPP<sup>+</sup>18]. **circle** [ABM<sup>+</sup>15]. **citrus** [LKS<sup>+</sup>13]. **CJ** [ZWL<sup>+</sup>14]. **clam** [ACYC10, DABO<sup>+</sup>17, FBVC16, MMD16, PDdC<sup>+</sup>14, RPJ<sup>+</sup>18]. **clams** [MMMD16]. **Clarias** [BNC<sup>+</sup>11, DAO19, HGPD11, HOHG13, LvD18, OOO<sup>+</sup>11, OAO<sup>+</sup>12, SRT<sup>+</sup>14, TMWV14]. **clarithromycin** [CDW17]. **clarkii** [AMAR18, DXX<sup>+</sup>15, JPG<sup>+</sup>19, MKKM15, WXWD15]. **class** [ATM<sup>+</sup>10, CPB<sup>+</sup>15, LMG<sup>+</sup>19, LLZW14, NB11, RBM<sup>+</sup>16]. **classes** [AH16]. **claudin** [SJSJ<sup>+</sup>14]. **Clavochlamydia** [MSR<sup>+</sup>10]. **clay** [BBF<sup>+</sup>15]. **Cleaner** [Spe19a, Spe19b, BW18, GCGR13, GDN<sup>+</sup>16, WDM<sup>+</sup>15]. **cleansing** [Lek12]. **clearance** [CR12]. **Cleidodiscus** [BCT<sup>+</sup>17]. **Clinacanthus** [HDC18]. **Clinical** [BHW<sup>+</sup>11, CGP<sup>+</sup>19, HBB14, JJB15, RMR14, SHW<sup>+</sup>11, SMS<sup>+</sup>10, BSSH17, BHA<sup>+</sup>17, BSBH10, CPdPP16, CRAG<sup>+</sup>12, HWM<sup>+</sup>13, KTP<sup>+</sup>15, QXW14, RHZA<sup>+</sup>16, RHST<sup>+</sup>16, RHSM<sup>+</sup>18b, TSS18]. **clinically** [SG12, TWNB<sup>+</sup>12]. **Clinostomum** [FŠK<sup>+</sup>19]. **clioquinol** [LPC<sup>+</sup>18]. **clipping** [ASSP<sup>+</sup>15]. **Clonal** [MFS<sup>+</sup>17, CHB<sup>+</sup>17, TALA11]. **clonality** [RDW18]. **clone** [BMMC<sup>+</sup>15]. **Cloning** [CLWJ13, JKH<sup>+</sup>17, NMIY14, HCW<sup>+</sup>16, NRMS14, NSE<sup>+</sup>17, SHKF16]. **close** [LDEH17]. **closure** [ASSP<sup>+</sup>15]. **clownfish** [BRMG13, SBK<sup>+</sup>15]. **clpV**

[LXZ<sup>+</sup>19]. **club** [PPF<sup>+</sup>12]. **Clupea** [GJVT<sup>+</sup>11, GGW<sup>+</sup>11, HLL<sup>+</sup>12, HCEH16, MMBS10]. **clusters** [BKG<sup>+</sup>18]. **Cnidaria** [MJ17, RKPG16]. **Cnideria** [PÁD18]. **Co** [ASHZ<sup>+</sup>12, ATP<sup>+</sup>16, ARFG13, MBOC19, VDMJ<sup>+</sup>13, DYML<sup>+</sup>18, LGJ19, WNAJ<sup>+</sup>16]. **Co-Infection** [ARFG13, ATP<sup>+</sup>16, MBOC19, VDMJ<sup>+</sup>13, LGJ19]. **co-infections** [DYML<sup>+</sup>18, WNAJ<sup>+</sup>16]. **coast** [BMGS17, EEMCEGSP16, FSM<sup>+</sup>16, GMP<sup>+</sup>11, JKO<sup>+</sup>13, LGK<sup>+</sup>14, MDC<sup>+</sup>18, RDN<sup>+</sup>12, SDJH16]. **coastal** [CNN<sup>+</sup>10, HGH<sup>+</sup>16, RSF<sup>+</sup>17]. **coat** [ZLN<sup>+</sup>17]. **coated** [MTK<sup>+</sup>10, SSHEM11]. **cobia** [CLL<sup>+</sup>10, HCL<sup>+</sup>14, HSHC<sup>+</sup>16, PSS17, SPS<sup>+</sup>17, TWYC15]. **Cobitis** [FŠK<sup>+</sup>19]. **cocaine** [GFM<sup>+</sup>16]. **cocci** [BHA<sup>+</sup>11]. **coccidiosis** [LFL19, dSdAdS<sup>+</sup>19]. **cockle** [DIVC16]. **cockle-based** [DIVC16]. **cockles** [DIVC16, RAVC18]. **cocktail** [SPCR<sup>+</sup>19]. **cod** [BSWS11, BMGS17, BK12, FvdMF<sup>+</sup>18, GIW<sup>+</sup>11, GGGM14, HLHS11, HKD<sup>+</sup>10, HFKF17, MVM<sup>+</sup>18, MBB12, OBD10, PG16, RBWR<sup>+</sup>15, Sam10, SJT14, ZCP12]. **Codon** [SCK13, MLH<sup>+</sup>15]. **Codon-optimized** [SCK13]. **coexistence** [LVADB17]. **cogygria** [BE19]. **cognate** [ZWY<sup>+</sup>11]. **cohabitant** [MID<sup>+</sup>19a]. **cohabitation** [BWS<sup>+</sup>18, GFM<sup>+</sup>11, MID<sup>+</sup>19b]. **cohabited** [Tre12]. **Coho** [AHTCA<sup>+</sup>17, VMBGE17]. **coinfection** [ATP<sup>+</sup>17, MP18]. **coinfections** [PTM<sup>+</sup>19]. **coioides** [FHZ<sup>+</sup>16, NNC<sup>+</sup>18, WCL<sup>+</sup>12]. **Cold** [KSS17, CHV<sup>+</sup>12, SAS<sup>+</sup>19, VBL<sup>+</sup>16]. **cold-blooded** [SAS<sup>+</sup>19]. **Cold-water** [KSS17]. **coldwater** [GCNB16, MBS<sup>+</sup>19a, RHB<sup>+</sup>15]. **coli** [SNM<sup>+</sup>16]. **collected** [BOH<sup>+</sup>12, BA13, BMGS17, DBV<sup>+</sup>13, GOM<sup>+</sup>19, MJ17, PPSW19, SMJ<sup>+</sup>14, WWE<sup>+</sup>13]. **collecting** [LST<sup>+</sup>12, MWRSK17]. **collection** [ZCCN13]. **colloidal** [LXX<sup>+</sup>17]. **Colombia** [BMCM<sup>+</sup>15]. **colonization** [BK12, SFL<sup>+</sup>16]. **colonized** [RHBMM13]. **colonizing** [LF18, SWWN<sup>+</sup>16]. **Colorimetric** [ASS19]. **Colossoma** [ANB<sup>+</sup>19, FCS<sup>+</sup>18, OMB<sup>+</sup>19, PdSG<sup>+</sup>12, VDO<sup>+</sup>18b, VDO<sup>+</sup>18a]. **Columbia** [BPPKJ10, MMB<sup>+</sup>15, SMM<sup>+</sup>13, TVK<sup>+</sup>19, BHT<sup>+</sup>17, SMR10]. **column** [JHM<sup>+</sup>18, MLF<sup>+</sup>10]. **columnare** [BBF<sup>+</sup>15, BLF<sup>+</sup>16, BMA13, DBS12, DBV<sup>+</sup>13, DLPR15, DSLR16, FDL<sup>+</sup>17, GLW<sup>+</sup>18, GCW17, LWWS14, LGD<sup>+</sup>17, LGS19, LFD<sup>+</sup>17, LZZN10, LLL<sup>+</sup>12, OFA11, SL15, SLPB18, TQW<sup>+</sup>14, WSA<sup>+</sup>18]. **columnaris** [MA16]. **columns** [OM10]. **combination** [QZZ<sup>+</sup>18b]. **combinations** [HCL<sup>+</sup>14]. **Combinatorial** [PPI<sup>+</sup>13]. **Combined** [MDF<sup>+</sup>17, AGB<sup>+</sup>19, TCFáS19, WSX<sup>+</sup>18]. **comes** [BSW17]. **Comment** [KRFT14, JCN<sup>+</sup>14]. **Comments** [Pol15, FYO<sup>+</sup>11, MWS17, Dig15]. **commercial** [ABF15, CdAPdC<sup>+</sup>19, MSBB<sup>+</sup>16, TFG19]. **commercially** [LXX<sup>+</sup>17, WGL17]. **commersonii** [MGN<sup>+</sup>16]. **Common** [SBH<sup>+</sup>16, ABVS18, BWS<sup>+</sup>18, CLC<sup>+</sup>17, CR12, GSEM13, JST<sup>+</sup>19, JAR<sup>+</sup>11, LWJ<sup>+</sup>16, LLZW14, LJGRI<sup>+</sup>10, MBS<sup>+</sup>17, OSAA18, OCLI<sup>+</sup>19, PTM<sup>+</sup>19, PFP<sup>+</sup>13, SGB<sup>+</sup>16, SGQ<sup>+</sup>15, SEM18, SSK17, SRB12, SJSA<sup>+</sup>14, THW<sup>+</sup>12, VCN<sup>+</sup>10, VDD<sup>+</sup>18, YFA<sup>+</sup>17]. **community** [JSAB<sup>+</sup>19]. **companion** [RBR19]. **Comparative** [BBP18, BFC<sup>+</sup>15, FDST16, GPL<sup>+</sup>12, IBFL19,

LWZ<sup>+18</sup>, MID<sup>+19b</sup>, MNG<sup>+18</sup>, OEG<sup>+13</sup>, RCD<sup>+17</sup>, RSIP<sup>+17</sup>, VTM<sup>+14</sup>,  
 WZA10, XJL<sup>+19</sup>, XKB12, YEK<sup>+17</sup>, ABT<sup>+14</sup>, BSPS<sup>+18</sup>, DPTFC10,  
 FLVA10, GFM<sup>+11</sup>, MID<sup>+19a</sup>, SOA<sup>+18</sup>, SMS<sup>+18</sup>, KPT<sup>+11</sup>]. **comparing**  
 [CMH<sup>+17</sup>, EWRH13]. **Comparison** [GRG<sup>+16</sup>, HOHG13, RSPA<sup>+18</sup>, TAC15,  
 BLF<sup>+16</sup>, DZC<sup>+16</sup>, EAM<sup>+13</sup>, LLLG18]. **Competition** [YHY<sup>+16</sup>].  
**complanatum** [FŠK<sup>+19</sup>]. **Complementary** [TQW<sup>+14</sup>]. **Complete**  
 [CGG<sup>+10</sup>, KKM<sup>+19</sup>, YMH<sup>+11</sup>, ZxYJ<sup>+19</sup>]. **complex**  
 [CPB<sup>+15</sup>, KDP<sup>+17</sup>, TALA11, PdLC19]. **Complex-related** [PdLC19].  
**complexes** [LC17, LRD<sup>+19</sup>]. **component** [NDA10]. **components**  
 [ASA10, BLF<sup>+16</sup>]. **composition**  
 [IBFL19, JBO<sup>+15</sup>, KFK<sup>+16</sup>, LDAM14, LWZ<sup>+18</sup>]. **compositions** [DTF<sup>+16</sup>].  
**compounds** [AHH16, AH16, MoSMS18, PPI<sup>+13</sup>]. **Comprehensive**  
 [HKB<sup>+16</sup>]. **compression** [LGS<sup>+14</sup>]. **computed** [LTC<sup>+14</sup>]. **computer**  
 [CMEV17a, CMEV17b]. **computer-assisted** [CMEV17a, CMEV17b].  
**concentration** [GFM<sup>+16</sup>, HH13a, MSC<sup>+17</sup>, OM10, YVM<sup>+14</sup>].  
**concentrations** [FCJH19, GTGCM19, HHO14, HGH<sup>+18</sup>, RHB<sup>+15</sup>].  
**Concurrence** [ACA<sup>+16</sup>]. **concurrent** [LGK<sup>+14</sup>]. **condition**  
 [PBM<sup>+15</sup>, SSJ<sup>+19</sup>, SSL18]. **conditions**  
 [CDG<sup>+14</sup>, HBS<sup>+14</sup>, HKG<sup>+15</sup>, KCL14, MGM<sup>+18</sup>, TAQ<sup>+10</sup>]. **conducting**  
 [WWE<sup>+13</sup>]. **confinement** [PBC15]. **confirm** [KF10a]. **confirmation**  
 [CHB<sup>+17</sup>, GPWF19]. **confirmed** [JDRM17]. **confirms** [KDA<sup>+18</sup>]. **confocal**  
 [BCM<sup>+17</sup>, CGCAH12]. **conger** [IGLG<sup>+17</sup>]. **Congo** [HHC<sup>+18</sup>]. **conjoined**  
 [ADR11, BQP12, LTC<sup>+14</sup>]. **conjugated** [RSGB<sup>+14</sup>]. **connection**  
 [MTG<sup>+10</sup>]. **consensus** [TAC15]. **consequence** [AFTEML19].  
**consequences** [LGS<sup>+14</sup>]. **served** [YEK<sup>+17</sup>]. **consideration** [SSL18].  
**Constance** [BGRB14]. **constant** [TQW<sup>+14</sup>]. **constitutes** [SPTDEE<sup>+15</sup>].  
**Construction** [EAN<sup>+18</sup>, SWM<sup>+15</sup>, YK12, ZWL<sup>+14</sup>]. **contact** [SVY<sup>+14</sup>].  
**containing** [SNM<sup>+16</sup>]. **contaminated** [BSD<sup>+18d</sup>, WBD<sup>+10b</sup>]. **content**  
 [BCBS<sup>+13</sup>]. **continuous**  
 [MVM<sup>+18</sup>, PWHW18b, SDR<sup>+15</sup>, VKK<sup>+19</sup>, YCNW18]. **Contraecum**  
 [DMB<sup>+16</sup>]. **contractile** [LTC16]. **contribute** [FBS13]. **contributes**  
 [YZW<sup>+19</sup>]. **control** [ASA10, BNS13, DBS12, FLC<sup>+17</sup>, GVB<sup>+17b</sup>, HLHS11,  
 JR19, MSS<sup>+17a</sup>, NFA15, SKGE13, TDJ<sup>+10</sup>, VGI<sup>+16</sup>]. **Controlled**  
 [SPLV<sup>+15</sup>, KBTMH<sup>+16</sup>, MMBS10, NRMS14]. **controlling**  
 [BAH<sup>+16</sup>, GCGR13, HGG<sup>+11</sup>, MSMM19, SMFM12]. **controls** [BMBS12].  
**coordinated** [JR19]. **Copaifera** [VDO<sup>+18b</sup>]. **Cope** [JMHK18, LRB<sup>+17</sup>].  
**copepod** [ABC<sup>+10</sup>, SAD<sup>+12</sup>]. **Copepoda**  
 [FSB18a, BSWS11, KJB11, MAOS<sup>+18</sup>, PMBM13]. **copepodid** [BRL<sup>+13</sup>].  
**copepodid-density** [BRL<sup>+13</sup>]. **copepodids** [BRL<sup>+13</sup>, DLLB<sup>+18</sup>, FSB18a].  
**copper** [DBS12, FCJH19]. **core** [TMWV14]. **Coregonus**  
 [SMS<sup>+18</sup>, WKW<sup>+11</sup>]. **corkwing** [SRM<sup>+18</sup>]. **Coronary**  
 [DTF<sup>+16</sup>, BOH<sup>+12</sup>, DRdS<sup>+10</sup>]. **correction** [GM11]. **correlate** [PdLC19].  
**correlated** [HZP<sup>+12</sup>]. **correlates** [Dal18, NN11]. **correlation**  
 [FPK<sup>+17</sup>, JSJR<sup>+19</sup>, LLS<sup>+11</sup>, LWMT10, MSC<sup>+17</sup>]. **corresponds** [GGW<sup>+11</sup>].



**Corrigendum** [Ano12a, Ano12b, Ano17a, Ano17b]. **cosmetic** [VME<sup>+19</sup>].  
**costae** [KCD<sup>+14</sup>]. **Cotinus** [BE19]. **count** [GBV<sup>+16</sup>, GVB<sup>+17a</sup>, Gis18].  
**counts** [EWRH13]. **County** [MNM<sup>+19</sup>]. **coupled** [YGL<sup>+18</sup>]. **course**  
 [RBM<sup>+16</sup>]. **Cover** [BWP<sup>+19a</sup>, ESV<sup>+19a</sup>, FSB18b, GGMG18a, GCM<sup>+18a</sup>,  
 LITCAH19a, LLL<sup>+18b</sup>, MBS<sup>+19b</sup>, MTLP<sup>+18a</sup>, PWHW18a, PLC<sup>+19a</sup>,  
 QZZ<sup>+18a</sup>, RHTC19a, RHVG<sup>+19a</sup>, VSDS<sup>+19b</sup>]. **cownose** [BB11, VPCM19].  
**cowtail** [SDZN19]. **CpG** [PFC<sup>+13</sup>]. **Cpn60** [CG11]. **crab**  
 [DML<sup>+16</sup>, DCZ<sup>+17</sup>, DCL<sup>+17</sup>, FGJ<sup>+10</sup>, FSM<sup>+16</sup>, LQY11, MRR<sup>+14</sup>,  
 RNM<sup>+12</sup>, SCS<sup>+12</sup>, ZB12]. **crabs** [SWH<sup>+14</sup>]. **crappie** [GPWF19, SMS<sup>+19</sup>].  
**crappies** [BCT<sup>+17</sup>]. **Crassostrea**  
 [CBM<sup>+18</sup>, GVLE16, GCCLRP<sup>+13</sup>, HPY<sup>+13</sup>]. **crassus**  
 [BMD<sup>+14</sup>, BND<sup>+17</sup>, FDST16, LML12, LFP<sup>+11a</sup>, LFP<sup>+11b</sup>]. **Crayfish**  
 [KPKP10, AMAR18, DXX<sup>+15</sup>, JPG<sup>+19</sup>, OSC<sup>+14</sup>, SMKBP17, VDHV<sup>+16</sup>,  
 VDHL19]. **crimson** [CLWJ13]. **critical** [WBD10a]. **croaker**  
 [HZJ<sup>+19</sup>, XQS<sup>+15</sup>, ZZA<sup>+14</sup>, ZWG<sup>+17</sup>]. **croakers** [MPM16]. **crocea**  
 [HZJ<sup>+19</sup>, XQS<sup>+15</sup>, ZZA<sup>+14</sup>, ZWG<sup>+17</sup>]. **Cross**  
 [AAUHW15, GRF14, JLJ16, MBS<sup>+19a</sup>]. **Cross-neutralization** [GRF14].  
**cross-protection** [JLJ16, MBS<sup>+19a</sup>]. **Cross-sectional** [AAUHW15].  
**crossback** [KVC<sup>+16</sup>]. **crossbreeds** [PFP<sup>+13</sup>]. **crowding** [Bin14]. **Crp**  
 [VSS17]. **crucian** [BSK<sup>+10</sup>, KKOY19, KJW<sup>+17</sup>, WXL16].  
**crumenophthalmus** [HHM<sup>+14</sup>]. **Crustacea** [BSWS11]. **crustaceans**  
 [LXX<sup>+17</sup>]. **cryotherapy** [BCW<sup>+15</sup>]. **Cryptocaryon** [LMAKN16].  
**cryptocaryonosis** [LMAKN16]. **CT** [BWM<sup>+13</sup>]. **Ctenochaetus** [WA14].  
**Ctenolabrus** [BT14]. **Ctenopharyngodon** [GCWB11, LLL<sup>+12</sup>, YYW<sup>+14</sup>].  
**Ctenopharyngon** [LXHL11]. **cucumber** [LQL<sup>+10</sup>]. **cues** [FSB18a].  
**cultivable** [STIG17]. **cultivated** [VFB<sup>+12</sup>]. **cultivation**  
 [APG<sup>+11</sup>, KAEM13, KSAB<sup>+14</sup>, Sla14]. **cultivation-independent** [Sla14].  
**culture** [ABF15, AGB<sup>+19</sup>, AdOG<sup>+17</sup>, EAM<sup>+13</sup>, GM10, GBSF12, GDN<sup>+16</sup>,  
 HO13, JJS<sup>+12</sup>, LLX<sup>+19</sup>, MB17, MLWC11, Mor12, ONA10, SMS<sup>+10</sup>,  
 STS<sup>+15</sup>, YSV<sup>+13</sup>]. **culture-associated** [ONA10]. **cultured**  
 [AOAH13, AAZS<sup>+15</sup>, AZSI<sup>+12</sup>, ACLP<sup>+19</sup>, BMMC<sup>+15</sup>, BAD<sup>+12</sup>, CVLJ<sup>+10</sup>,  
 CVGR<sup>+13</sup>, CWW<sup>+18</sup>, CCT<sup>+11</sup>, CLW<sup>+13</sup>, CSA<sup>+15</sup>, CWL<sup>+17</sup>, CPP14,  
 CCM<sup>+11</sup>, CCMA<sup>+17</sup>, DMP10, EKS<sup>+13</sup>, HHX<sup>+15</sup>, KPT<sup>+11</sup>, KPK<sup>+18</sup>,  
 KLD<sup>+18</sup>, LGK<sup>+14</sup>, LFSZ18, LYL<sup>+18</sup>, LL12, LPVGL<sup>+10</sup>, LLL<sup>+13</sup>, MLRS<sup>+17</sup>,  
 ME12, MKMY10, PAZ18, PLC<sup>+19b</sup>, QWTL17, RHSM<sup>+18b</sup>, SMD<sup>+12</sup>,  
 SPKS17, SDJH16, SSJ<sup>+19</sup>, SZZSFN<sup>+14</sup>, SKPS16, TWYC15, WZL<sup>+11</sup>,  
 WZQ<sup>+16</sup>, XJL<sup>+15</sup>, YYF<sup>+10</sup>, ZQB<sup>+11</sup>, ZxYJ<sup>+19</sup>, dALF<sup>+17</sup>]. **cultures**  
 [CHB<sup>+17</sup>, PDdC<sup>+14</sup>]. **culturing** [KDP<sup>+17</sup>]. **cuneata** [LPVGL<sup>+10</sup>].  
**curcumin** [MDF<sup>+17</sup>]. **Current** [GJMH17, LRMN17, MYWC18, WBD<sup>+10b</sup>,  
 GFS<sup>+18</sup>, JJM<sup>+17</sup>, KSS17, TALA11, MMH<sup>+18</sup>, ZGY<sup>+18</sup>]. **curtus** [HLHS11].  
**Cururu** [MdOO16]. **curve** [TCFáS19]. **cut** [SEK<sup>+16</sup>]. **cut-off** [SEK<sup>+16</sup>].  
**Cutaneous** [LLG<sup>+15</sup>, MBD16, AGFG19, KHS11, LDÁM14, VPCM19].  
**cutoff** [GCW17]. **cutthroat** [MKKM15]. **Cuvier**  
 [BQP12, BHW<sup>+11</sup>, CHF<sup>+12</sup>, GOM<sup>+19</sup>, PdSG<sup>+12</sup>, SBK<sup>+15</sup>, ZWY<sup>+11</sup>].

**Cyanea** [PÁD18]. **cyanobacterial** [KPM<sup>+</sup>11]. **cyanuric** [PCK<sup>+</sup>15]. **cycle** [AJLK<sup>+</sup>18, LNC<sup>+</sup>17, RRC<sup>+</sup>17]. **cycles** [JR19]. **cyclic** [VSS17]. **cyclophilin** [YSK13]. **cyclopteri** [ATP<sup>+</sup>16, PB18]. **Cyclopterus** [ATP<sup>+</sup>16, AGR<sup>+</sup>16, CCH<sup>+</sup>19, ESBE18, EWH<sup>+</sup>19, ELI<sup>+</sup>17, EDV<sup>+</sup>18, ESV<sup>+</sup>19b, GVC<sup>+</sup>19, JHRW17, MLRS<sup>+</sup>17, PAM<sup>+</sup>19, PB18, SBP<sup>+</sup>19, SFBW<sup>+</sup>17, TDS<sup>+</sup>19]. **CyHV** [BBL<sup>+</sup>16, AHJS<sup>+</sup>18, IFF<sup>+</sup>15, NSS<sup>+</sup>17, PFP<sup>+</sup>13, RAM<sup>+</sup>18]. **CyHV-2** [BBL<sup>+</sup>16, AHJS<sup>+</sup>18, NSS<sup>+</sup>17, RAM<sup>+</sup>18]. **CyHV-3** [IFF<sup>+</sup>15, PFP<sup>+</sup>13]. **Cynoglossus** [XJL<sup>+</sup>15, ZQB<sup>+</sup>11]. **Cynoscion** [CCM<sup>+</sup>11]. **cyprinacea** [RHS<sup>+</sup>12]. **cyprini** [GSBEM15, WBD<sup>+</sup>10b]. **Cyprinid** [LLL<sup>+</sup>13, MSS<sup>+</sup>17a, ASB<sup>+</sup>12, CLC<sup>+</sup>17, CCW<sup>+</sup>15, EBM<sup>+</sup>18, MLH<sup>+</sup>15, MKY<sup>+</sup>15, MBT<sup>+</sup>17, NSS<sup>+</sup>17, PFP<sup>+</sup>13, RAM<sup>+</sup>18, SEM18, WXL16, WSX<sup>+</sup>18, WIC<sup>+</sup>19, BBL<sup>+</sup>16, FBAS16, FCC<sup>+</sup>13, FSC<sup>+</sup>16, GSEM13, GAEK<sup>+</sup>14, HDC18, IFF<sup>+</sup>15, KJW<sup>+</sup>17, TKS<sup>+</sup>18]. **Cyprinus** [AI11, BLFRCQ10, BDM<sup>+</sup>18, CLC<sup>+</sup>17, CR12, CCT<sup>+</sup>11, CLHGK17, FSV<sup>+</sup>14, GJM<sup>+</sup>15, GSEM13, HDC18, JDRM17, JAR<sup>+</sup>11, JSAH<sup>+</sup>18, KPM<sup>+</sup>11, LWJ<sup>+</sup>16, LLZW14, MBS<sup>+</sup>17, MSS<sup>+</sup>17a, MTA<sup>+</sup>15, MTAB15, OSAA18, OCLI<sup>+</sup>19, PFP<sup>+</sup>13, RHZA<sup>+</sup>16, SBD11, SRB12, SJSA<sup>+</sup>14, VCN<sup>+</sup>10, WPH<sup>+</sup>13, WZW<sup>+</sup>18, YFA<sup>+</sup>17]. **Cyralia** [MdOO16]. **cyst** [SdMVS<sup>+</sup>16]. **Cystic** [RhMM<sup>+</sup>15, WBE<sup>+</sup>17]. **cysticola** [WNGS<sup>+</sup>17]. **Cystidicolidae** [SBK<sup>+</sup>13]. **cytokine** [AMA11]. **cytokines** [NSE<sup>+</sup>17]. **cytologic** [RSR<sup>+</sup>18]. **cytometry** [CHB<sup>+</sup>17]. **cytotoxicity** [JSJR<sup>+</sup>19]. **Czech** [PFP<sup>+</sup>13].

**D** [ASHZ<sup>+</sup>12, JCN<sup>+</sup>14, KBE<sup>+</sup>14]. **dab** [SBH<sup>+</sup>16, VDD<sup>+</sup>18, YYW<sup>+</sup>14]. **damage** [MBB12]. **damselae** [BBP18, CDF<sup>+</sup>18, CRS<sup>+</sup>13, HCL<sup>+</sup>14, KPSP<sup>+</sup>19, OJRL10, SPS<sup>+</sup>17, BBP18, HHM<sup>+</sup>14, SPS<sup>+</sup>17]. **Danio** [AMRHM18, CXK16, CKvGJB17, EDP<sup>+</sup>17, KWGS19, LHW<sup>+</sup>12, LHW<sup>+</sup>15b, MLR<sup>+</sup>12, MWRSK17, RAM<sup>+</sup>19, SZM<sup>+</sup>15, SSK17, ZJR<sup>+</sup>18]. **Dasyatis** [CBFM16]. **data** [Gis18, HBS<sup>+</sup>14, MPJ<sup>+</sup>15, SMM<sup>+</sup>13, SK15, SEK<sup>+</sup>16]. **database** [EKT<sup>+</sup>11, JSK<sup>+</sup>10]. **dead** [CBM<sup>+</sup>18]. **deaminase** [BSD<sup>+</sup>18a]. **Decapterus** [BHW<sup>+</sup>11]. **decipiens** [BK12]. **decreased** [MCO11]. **decreases** [CCHL13, USM17]. **decussatus** [DABO<sup>+</sup>17]. **defence** [DLP<sup>+</sup>13, RRO<sup>+</sup>13]. **deficiency** [WPH<sup>+</sup>13]. **deficient** [HCCM12]. **definition** [BSSH17, MNF<sup>+</sup>15]. **definitions** [OLVJ<sup>+</sup>13]. **deformation** [TPD<sup>+</sup>19]. **deformations** [ASW16]. **deformities** [CLHGK17, Dig13, Dig15, FHFF15, GHB<sup>+</sup>11, MLF<sup>+</sup>10, Pol15, SMS<sup>+</sup>18]. **deformity** [GCWB11, JHM<sup>+</sup>18, NWMK16]. **degenerated** [VCOD17]. **degenerative** [ARL<sup>+</sup>17]. **Delftia** [ARFG13]. **delica** [TFG19]. **delivered** [PBM<sup>+</sup>15]. **delivery** [LLDL13]. **delousing** [HH13a, JR19]. **Delta** [BAD<sup>+</sup>12]. **Deltamethrin** [HBS<sup>+</sup>14]. **Deltistes** [JMHK18]. **demonstrate** [WKW<sup>+</sup>11]. **demonstrates** [GCM<sup>+</sup>18b, LLS<sup>+</sup>11, PPE<sup>+</sup>18]. **demonstrating** [JKS<sup>+</sup>13]. **demonstration** [CBLN13]. **Dendronereis** [HVVV15]. **denitrification** [JSAB<sup>+</sup>19]. **density** [BRL<sup>+</sup>13, DLCC<sup>+</sup>13]. **densovirus** [OLC11]. **deoxynivalenol** [RHB<sup>+</sup>15]. **dependency** [JHW17]. **dependent** [ASSP<sup>+</sup>15, CGG<sup>+</sup>10, HZJ<sup>+</sup>19, HLP<sup>+</sup>16]. **depletion**

[DdRTM13, DdRCP13, DPCdR14]. **deposition** [CHF<sup>+</sup>12]. **depositions** [LAN<sup>+</sup>14]. **deprivation** [LDÁM14]. **derivative** [PVIM18]. **derived** [GHH<sup>+</sup>11, KLW10, LJC<sup>+</sup>19, OWM<sup>+</sup>17, PMW<sup>+</sup>10, SSG<sup>+</sup>19, WWS<sup>+</sup>11, YSHG18, YNL11, YCNW18]. **dermal** [RKPG16]. **dermatitis** [PRT<sup>+</sup>14, RBS<sup>+</sup>16]. **dermatopathy** [KPT<sup>+</sup>11, SJT14]. **Dermocystidium** [FCS<sup>+</sup>18, KHLL16, LLG<sup>+</sup>15]. **Dermocystidium-like** [KHLL16]. **description** [BLdA<sup>+</sup>18, BVT<sup>+</sup>18, CTD<sup>+</sup>12, GKCC<sup>+</sup>12, GGH<sup>+</sup>10, MdOO16, SZM<sup>+</sup>15, dSRSHGá<sup>+</sup>19]. **descriptive** [WMM<sup>+</sup>16]. **Design** [LTG<sup>+</sup>18, VCOD17]. **Desmarest** [MPM16]. **Desmozoon** [MRSC13]. **destructive** [BMT<sup>+</sup>15, CMS<sup>+</sup>19, LJGRI<sup>+</sup>10]. **detect** [CDG<sup>+</sup>14, THW<sup>+</sup>12]. **detected** [CCW<sup>+</sup>15, SRM<sup>+</sup>18]. **detecting** [AHITC18, BRB<sup>+</sup>12, HWM<sup>+</sup>13, WCW16a]. **Detection** [ACSB<sup>+</sup>19, BKS<sup>+</sup>17, BLSG<sup>+</sup>16, BPF<sup>+</sup>18, CPEH15, FCM<sup>+</sup>19, FCC<sup>+</sup>13, FGR<sup>+</sup>12, GFB<sup>+</sup>13, GBSF12, GCCLRP<sup>+</sup>13, JKC<sup>+</sup>11, JYZ<sup>+</sup>14, JHGR13, KTN<sup>+</sup>16, KJW<sup>+</sup>17, LGC<sup>+</sup>19, LJGRI<sup>+</sup>10, MCW<sup>+</sup>18, NJK<sup>+</sup>17, NFF<sup>+</sup>17, NSC<sup>+</sup>15, OMO<sup>+</sup>15, PBW<sup>+</sup>18, SZZSFN<sup>+</sup>14, SSO<sup>+</sup>14, VGP<sup>+</sup>18, WXL16, ARR<sup>+</sup>18, AGB<sup>+</sup>19, BBC<sup>+</sup>10, BBL<sup>+</sup>16, CLC<sup>+</sup>17, CDF<sup>+</sup>18, CWW<sup>+</sup>18, CRAG<sup>+</sup>12, CZL<sup>+</sup>19, DPMK12, DTM<sup>+</sup>10, DCL<sup>+</sup>17, FSC<sup>+</sup>16, FSG<sup>+</sup>12, GMB<sup>+</sup>17, GJK<sup>+</sup>11, GM10, HJOK11, HGB<sup>+</sup>11, JNN<sup>+</sup>11, KJW<sup>+</sup>12, KBJ<sup>+</sup>13, KMGK<sup>+</sup>18, LFH<sup>+</sup>11, LLWL15, LXX<sup>+</sup>17, LCR<sup>+</sup>10, MSI<sup>+</sup>15, MTHB13, MTAB15, MNM<sup>+</sup>19, NLKA16, NMM<sup>+</sup>18, NOST<sup>+</sup>16, OCLI<sup>+</sup>19, PHvdH12, PSK<sup>+</sup>13, RHZA<sup>+</sup>16, RPJ<sup>+</sup>18, SMF<sup>+</sup>10, SSHEM11, SPKS17, SKN<sup>+</sup>16, Sla14, SEM18, TSS18, TSK<sup>+</sup>19, WWZ<sup>+</sup>18, WSX<sup>+</sup>18, XJL<sup>+</sup>15, YTL10, YWW<sup>+</sup>19, YLX<sup>+</sup>19a, ZCCN13, ZCC<sup>+</sup>15, ZWG<sup>+</sup>18, ZHFC11, ZLN<sup>+</sup>17, vBVLR<sup>+</sup>16]. **detections** [HST<sup>+</sup>13, TVK<sup>+</sup>19]. **detects** [ISCF<sup>+</sup>19]. **determinants** [NB11]. **Determination** [OM10, DSJA18, RHTC19b]. **determinations** [YVM<sup>+</sup>14]. **determined** [BHT<sup>+</sup>17]. **developed** [NMV<sup>+</sup>19]. **Developing** [WCW16a]. **Development** [Año12c, BRB<sup>+</sup>12, BMBS12, CDF<sup>+</sup>18, CCCTA<sup>+</sup>14, CLT<sup>+</sup>14, ÇOÇ<sup>+</sup>16, CPdPP16, DPMK12, DCL<sup>+</sup>17, EKT<sup>+</sup>11, FSG<sup>+</sup>12, GJK<sup>+</sup>11, HRL15, HLC<sup>+</sup>15, JKS<sup>+</sup>13, KJW<sup>+</sup>12, KBJ<sup>+</sup>13, LML<sup>+</sup>13, LLWL15, LXX<sup>+</sup>17, LLX<sup>+</sup>19, MVM<sup>+</sup>18, MSI<sup>+</sup>15, MID<sup>+</sup>19a, MF12, NLKA16, OFA11, PWHW18b, PSK<sup>+</sup>13, RSGB<sup>+</sup>14, SCF<sup>+</sup>13, SVL<sup>+</sup>17, SKN<sup>+</sup>16, SFL<sup>+</sup>16, TSS18, THW<sup>+</sup>12, VBL<sup>+</sup>15, YWW<sup>+</sup>19, YLX<sup>+</sup>19a, ZCC<sup>+</sup>15, ZWG<sup>+</sup>18, vBVLR<sup>+</sup>16, BPCS19, BSK<sup>+</sup>10, CRBLC<sup>+</sup>17, CLS<sup>+</sup>15, DMK<sup>+</sup>19, EDN18, FLC<sup>+</sup>17, HH13b, HFKF17, JWO<sup>+</sup>10, JJV<sup>+</sup>15, KBE<sup>+</sup>14, LCOZ10, NMM<sup>+</sup>18, OLVJ<sup>+</sup>13, PWW19, SVV<sup>+</sup>17, SNK<sup>+</sup>19, dALF<sup>+</sup>17]. **DHA** [BCBS<sup>+</sup>13]. **dhakensis** [CMSHS16]. **diagnose** [NMIY14]. **diagnosing** [KKT<sup>+</sup>18a]. **diagnosis** [ATM<sup>+</sup>10, FBL<sup>+</sup>14, FMB<sup>+</sup>11, KKT<sup>+</sup>18b, VCOD17, WXL16, YYF<sup>+</sup>10]. **Diagnostic** [JSJR<sup>+</sup>19, BTC<sup>+</sup>17, CPdPP16, EAM<sup>+</sup>13, FMT<sup>+</sup>14, HH13b, HAS<sup>+</sup>19, JWO<sup>+</sup>10, JSJR<sup>+</sup>18, LTG<sup>+</sup>18, LMG<sup>+</sup>19, LPCC12, MNG<sup>+</sup>18, NJK<sup>+</sup>17, VDH19, BWP<sup>+</sup>19b, RHSM<sup>+</sup>18b, RHSM<sup>+</sup>18a]. **diagnostics** [LML<sup>+</sup>13]. **Dicauda** [LRB<sup>+</sup>17]. **dicentrarchi** [AHITC18, IGLG<sup>+</sup>17, KAF<sup>+</sup>19, LITCAH19b]. **Dicentrarchus** [CKTT10, FCM<sup>+</sup>19, FPK<sup>+</sup>17, LMC<sup>+</sup>16, NOST<sup>+</sup>16, PBC15, PST<sup>+</sup>16,

RRC<sup>+17</sup>, RGD<sup>+12</sup>, TMC<sup>+12</sup>, TNK12, VTM<sup>+14</sup>]. **Dichelesthium** [SAD<sup>+12</sup>]. **dichotomy** [VC17]. **diclina** [SWWN<sup>+16</sup>]. **Dicologlossa** [LPVGL<sup>+10</sup>]. **did** [OBFR12]. **Didymodictinus** [PMP<sup>+18</sup>]. **Didymozoidae** [PMP<sup>+18</sup>]. **diet** [BSD<sup>+18d</sup>, HOHG13]. **Dietary** [MLF<sup>+10</sup>, AFTEML19, AMA11, BCBS<sup>+13</sup>, DTF<sup>+16</sup>, DMB<sup>+19</sup>, LKS<sup>+13</sup>, PCK<sup>+15</sup>, SFR<sup>+17</sup>]. **differ** [BDD<sup>+18</sup>]. **Difference** [LZZN10]. **Differences** [JOF<sup>+19</sup>, TDLT<sup>+16</sup>, BLF<sup>+16</sup>, RSPA<sup>+18</sup>, SHO<sup>+17</sup>, SFU<sup>+13</sup>]. **Different** [ZXW<sup>+12</sup>, BRL<sup>+13</sup>, CRO<sup>+18</sup>, CPdPP16, CRS<sup>+13</sup>, DDBC<sup>+15</sup>, DMK<sup>+19</sup>, ELI<sup>+17</sup>, GFS<sup>+14</sup>, GRG<sup>+16</sup>, HKK<sup>+11b</sup>, HH13a, HZX<sup>+13</sup>, JAR<sup>+11</sup>, JR19, JPG<sup>+19</sup>, JKH<sup>+17</sup>, JHGR13, JBGP11, JJSJ15, JSJR<sup>+18</sup>, JSJR<sup>+19</sup>, KEY<sup>+15</sup>, MAC<sup>+15</sup>, PST<sup>+16</sup>, RHTC19b, SSV<sup>+10</sup>, SWWN<sup>+16</sup>, TDS<sup>+19</sup>, VTM<sup>+14</sup>, WBF<sup>+10</sup>, ZYW<sup>+10</sup>]. **Differential** [CZL<sup>+19</sup>, OLVJ<sup>+13</sup>, PMW<sup>+10</sup>, RSB13, VBL<sup>+16</sup>, WCL<sup>+12</sup>, ZJR<sup>+18</sup>, CLW<sup>+11</sup>, CLT<sup>+14</sup>, CDG<sup>+14</sup>, HB12, NSE<sup>+17</sup>]. **differentially** [LSA<sup>+15</sup>]. **differentiated** [CIA<sup>+18</sup>, SJSA<sup>+14</sup>]. **differentiates** [GLK<sup>+16</sup>]. **differentiation** [JSJR<sup>+18</sup>, RSMH09, SEM18]. **differs** [KBTMH<sup>+16</sup>]. **diffusion** [SK15]. **digenean** [DLP<sup>+13</sup>, DAO19]. **digestion** [RRG<sup>+19</sup>]. **digestive** [BT14, DPTFC10]. **Diggles** [Dig15, Pol15]. **dilation** [LWMT10]. **dimensional** [KTK17, LLL<sup>+12</sup>]. **Dinophyceae** [YB17]. **diocetes** [DD15]. **Diodon** [SBK<sup>+13</sup>]. **dioica** [AA10]. **dip** [NCNB18]. **Diphyllobothrium** [KFK<sup>+16</sup>, KKKA17]. **Diplodus** [KPT<sup>+11</sup>]. **diploid** [AAV<sup>+16</sup>, LWZ<sup>+18</sup>, SFR<sup>+17</sup>]. **diplomonad** [MLWC11]. **dips** [TJR<sup>+18</sup>]. **dipstick** [WSX<sup>+18</sup>]. **Direct** [DXX<sup>+15</sup>, GCNB18, vGJHS<sup>+11</sup>, LCR<sup>+10</sup>, SSHEM11]. **disc** [SK15]. **discus** [AFTEML19, RKK<sup>+19</sup>]. **Disease** [AHTCA<sup>+17</sup>, SWD<sup>+14</sup>, ATJS<sup>+18</sup>, ACN12, AAUHW15, AFTEML19, Ano10c, BSW17, BMMC<sup>+15</sup>, BTN<sup>+18</sup>, BHF13, BPCS19, BSK<sup>+10</sup>, BSSH17, BPK<sup>+17</sup>, BMT<sup>+15</sup>, BSBH10, CCLGRM<sup>+17</sup>, CVGR<sup>+13</sup>, CJB<sup>+15</sup>, CHV<sup>+12</sup>, CPP14, CCME16, CRAG<sup>+12</sup>, CONN10, DD18, DMB<sup>+19</sup>, DBHC17, DML<sup>+16</sup>, DTJ<sup>+17</sup>, DYML<sup>+18</sup>, DSJA18, DT16, FFLC17, GCNB16, GTT<sup>+17</sup>, GCM<sup>+18b</sup>, GKO<sup>+14</sup>, GDW<sup>+15</sup>, GMN12, GBSF12, HZP<sup>+12</sup>, HHX<sup>+15</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, JJB15, JJM<sup>+17</sup>, KR<sup>+17</sup>, KRP<sup>+15</sup>, KAF<sup>+19</sup>, KOI<sup>+14</sup>, KTN<sup>+16</sup>, KYB<sup>+15</sup>, LGK<sup>+14</sup>, LKS<sup>+13</sup>, LLS<sup>+11</sup>, LRMN17, MBS<sup>+19a</sup>, MNF<sup>+15</sup>, MKI<sup>+15</sup>, MLER<sup>+18</sup>, MTG<sup>+10</sup>, MR11, MA16, MCCN14, NPGA<sup>+19</sup>, NBJ10, NDA10, OLVJ<sup>+13</sup>, OSAA18, OCLI<sup>+19</sup>, OLT<sup>+10</sup>, PHvdH12, PRT<sup>+14</sup>, PGF<sup>+19</sup>, PRY<sup>+18</sup>, QPB<sup>+16</sup>, RSP<sup>+17</sup>, RRG<sup>+19</sup>, RPJ<sup>+18</sup>, RHB<sup>+15</sup>, SHW<sup>+11</sup>, SHS14, SMS<sup>+10</sup>, STS<sup>+15</sup>, SDM<sup>+19</sup>, SSF<sup>+17</sup>, SQC<sup>+14</sup>, SJK<sup>+14</sup>, SVY<sup>+14</sup>, SKJ13, TOK<sup>+16</sup>, TWNB<sup>+12</sup>, TCC10a, VFB<sup>+12</sup>, WMM<sup>+16</sup>]. **disease** [WNO<sup>+18</sup>, XKB12, ZYW<sup>+10</sup>, ZWG<sup>+17</sup>, ZDWH18]. **disease-causing** [DD18]. **diseased** [AI11, BAD<sup>+12</sup>, CMSHS16, CLZ<sup>+12</sup>, GCMG<sup>+11</sup>, KOS<sup>+10</sup>, LPVGL<sup>+10</sup>, OSC<sup>+14</sup>, PKPG15, PAZ18, RKK<sup>+19</sup>, SMV<sup>+14</sup>, SG12, WNCR12]. **Diseases** [LYD<sup>+15</sup>, Tre12, BMBS12, EEMCEGSP16, HAS<sup>+19</sup>, JBO<sup>+15</sup>, KKT<sup>+18a</sup>, LTG<sup>+18</sup>, LTM<sup>+19</sup>, MKY<sup>+15</sup>, NFA15, OLVJ<sup>+13</sup>, Spe19b]. **disinfectant** [MoSMS18]. **disinfectants** [JST<sup>+19</sup>, SHS14]. **Disinfection**

[ITKH18, BMK17, DD18, MUM<sup>+</sup>19, OBD10]. **disorders** [KOB<sup>+</sup>17]. **dispersal** [SCF<sup>+</sup>13, SDI<sup>+</sup>18]. **displaying** [WNAJ<sup>+</sup>16]. **displays** [BSB<sup>+</sup>18]. **disposal** [DAB<sup>+</sup>12]. **Disruption** [OWM<sup>+</sup>17, ZCQF15]. **Dissection** [LNC<sup>+</sup>17]. **Disseminated** [DSMC17, ŘKH17, SCZM19, DIVC16]. **dissolved** [MTLP<sup>+</sup>18b]. **distances** [SMR16]. **distinct** [EDN18, IBFL19, LLC<sup>+</sup>11]. **distinguishing** [FNISE12]. **Distribution** [AGFG19, BMH<sup>+</sup>19, LUP<sup>+</sup>18, MMMD16, AOAH13, CHWM<sup>+</sup>19, DPC<sup>+</sup>10, EKED<sup>+</sup>17, GFR<sup>+</sup>12, LBF<sup>+</sup>14, MRR<sup>+</sup>14, MJ17, NRF<sup>+</sup>18, NHM<sup>+</sup>10, PPE<sup>+</sup>18, SHO<sup>+</sup>17, SSV<sup>+</sup>17, TDJ<sup>+</sup>10]. **disturbances** [PHVM13]. **divergence** [FMA<sup>+</sup>19, MBS<sup>+</sup>17]. **divergent** [BVL<sup>+</sup>18]. **diverse** [HGX<sup>+</sup>19, LF18, ME12]. **Diversity** [CHV<sup>+</sup>12, ASB<sup>+</sup>12, BAD<sup>+</sup>12, BFC<sup>+</sup>15, DMP10, DLPR15, ISCF<sup>+</sup>19, MPBM<sup>+</sup>16, MWS17, PdLC19, PPSW19, TCM<sup>+</sup>19, WMD<sup>+</sup>18, WNMK<sup>+</sup>16]. **DIFBL** [PBC15]. **DNA** [ASHZ<sup>+</sup>12, CLGP15, CGR17, Dal18, DCMM13, EPCSBP18, GCCLRP<sup>+</sup>13, HLL<sup>+</sup>12, KKT<sup>+</sup>18b, KKT<sup>+</sup>18a, LLDL13, LFH<sup>+</sup>11, RSGB<sup>+</sup>14, TQW<sup>+</sup>14, WCL<sup>+</sup>19, YGL<sup>+</sup>18, YEK<sup>+</sup>17, ZWL<sup>+</sup>14]. **DNA-binding** [WCL<sup>+</sup>19]. **DnaK** [PHW<sup>+</sup>16, SNM<sup>+</sup>16]. **Do** [FBS13, NBJ10, PPF<sup>+</sup>12, FCJH19, RHB<sup>+</sup>15]. **docking** [SRD<sup>+</sup>16]. **docosaheptaenoic** [BCBS<sup>+</sup>13]. **doctor** [VME<sup>+</sup>19]. **Does** [HBH<sup>+</sup>19, CRBLC<sup>+</sup>17, BPCS19]. **dollar** [ALG15]. **domain** [ZGY<sup>+</sup>18]. **dopamine** [DSSB19]. **dorsal** [KLW10]. **dosage** [dOAPLá<sup>+</sup>17]. **dose** [CLGP15, HH13b, NSC<sup>+</sup>18, PPI<sup>+</sup>13, Sam10, WWE<sup>+</sup>13]. **dosing** [RHTC19b]. **dot** [LCR<sup>+</sup>10]. **double** [MKI<sup>+</sup>15]. **double-virus-infected** [MKI<sup>+</sup>15]. **doubling** [MLWC11]. **Down** [RBM<sup>+</sup>16]. **Down-regulation** [RBM<sup>+</sup>16]. **Dr** [Rob11]. **Dr.** [Cip11, EW17, Rob14a]. **Drasche** [KOS<sup>+</sup>10, PZL<sup>+</sup>14]. **Dried** [ZTF<sup>+</sup>10]. **drivers** [JMD<sup>+</sup>18]. **drop** [GKCC<sup>+</sup>12, SDM<sup>+</sup>19, ZDWH18]. **drug** [dSCBdS<sup>+</sup>16, RKK<sup>+</sup>19]. **drugs** [PZL<sup>+</sup>14, ZN10]. **dry** [SG12]. **dry-stored** [SG12]. **dsRNA** [DPADO16, SSV<sup>+</sup>10, TMM<sup>+</sup>15]. **dual** [VLVS<sup>+</sup>16]. **dual-labelled** [VLVS<sup>+</sup>16]. **due** [ABM<sup>+</sup>15, JJB15, ŘKH17]. **Dujardin** [KWGS19, MKK<sup>+</sup>11]. **Dumbo** [DAO19]. **dumerili** [MKH<sup>+</sup>11, dSRSHGá<sup>+</sup>19]. **duplex** [FGR<sup>+</sup>12]. **duration** [HLHS11]. **during** [BMT<sup>+</sup>15, CHWM<sup>+</sup>19, CG11, DMB<sup>+</sup>19, DYML<sup>+</sup>18, EDN18, FvdMF<sup>+</sup>18, GTGCM19, HH13a, JKL<sup>+</sup>13, KHG<sup>+</sup>17, LGJ19, LXZ<sup>+</sup>19, OJRL10, PTM<sup>+</sup>19, RHS<sup>+</sup>12, RCGGM15, SMS<sup>+</sup>10, SMJ<sup>+</sup>12, SHKF16, VMBGE17, XJL<sup>+</sup>19]. **dusky** [PMP<sup>+</sup>18, RBS<sup>+</sup>16, RSF<sup>+</sup>17]. **dwarf** [RWTB17]. **dyed** [Góm12]. **Dynamics** [KBTMH<sup>+</sup>16, MSMM19, HHO14, HKG<sup>+</sup>15, JPG<sup>+</sup>19, SVY<sup>+</sup>14, SSL18, YLL<sup>+</sup>18]. **dysfunction** [LGJ19]. **dysgalactiae** [CLLF14, NLF11, NMIY14, TWYC15]. **dysregulation** [CCHL13].

**E.** [ZDWH18]. **Early** [WFH<sup>+</sup>18, WOD16, BPK<sup>+</sup>17, HGG<sup>+</sup>11, ICVV16, vGJHS<sup>+</sup>11, LF18, LSC<sup>+</sup>14, MNG<sup>+</sup>18, MTA<sup>+</sup>15, MTAB15, MPS<sup>+</sup>18, RRO<sup>+</sup>13, SMJ<sup>+</sup>12, SFU<sup>+</sup>13, YK13, dALF<sup>+</sup>17]. **Early-stage** [WOD16]. **East** [Dig13, Dig15, GMP<sup>+</sup>11, RBR19, CCW<sup>+</sup>15, LZGZ16, Pol15]. **eastern** [CBM<sup>+</sup>17, CBM<sup>+</sup>18, PdSG<sup>+</sup>12, VPS<sup>+</sup>14, WMF14, LDA<sup>+</sup>19]. **echinostomatid** [MGM<sup>+</sup>16]. **Ecological** [PMP<sup>+</sup>18]. **economic** [KNN19].

**ecosystem** [JMD<sup>+</sup>18]. **ectoparasites** [STIG17]. **ectoparasitic** [MUM<sup>+</sup>19, TGJCH15]. **Ectopic** [BKG<sup>+</sup>18]. **ectopically** [TPD<sup>+</sup>19]. **edema** [ABVS18, MBS<sup>+</sup>17, MSB<sup>+</sup>19]. **edible** [DdRTM13, KOS<sup>+</sup>10, PZL<sup>+</sup>14, SWH<sup>+</sup>14]. **Editorial** [RW10, RW11, Rob13, Rob14b, Spe15, Woo12]. **edule** [RAVC18]. **edulis** [BRL<sup>+</sup>13, BLSG<sup>+</sup>16]. **Edward** [MMMD16]. **Edwards** [CG11, GMP<sup>+</sup>11, NRMS14, SQC<sup>+</sup>14, ZB12]. **Edwardsiella** [ACAS14, ACLP<sup>+</sup>19, BAD<sup>+</sup>12, CDM<sup>+</sup>16, CGAS19, CTD<sup>+</sup>12, COB<sup>+</sup>16, CTK<sup>+</sup>10, DMK<sup>+</sup>19, EAN<sup>+</sup>18, EA18, GRG<sup>+</sup>16, GPWF19, KTK17, KMGK<sup>+</sup>18, KREM14, LKS<sup>+</sup>13, LML<sup>+</sup>13, PRWG17, PRSK10, PMK12, QXW14, RSR<sup>+</sup>18, SMV<sup>+</sup>14, SRT<sup>+</sup>14, VST<sup>+</sup>19, WZA10, YK13, ZXW<sup>+</sup>12]. **Edwardsiellosis** [QXW14, LML<sup>+</sup>13]. **edwardsii** [ZJDL18]. **eel** [ARFG13, BMD<sup>+</sup>14, BND<sup>+</sup>17, BCG<sup>+</sup>17, GFM<sup>+</sup>16, IGLG<sup>+</sup>17, KYK<sup>+</sup>12, KPK<sup>+</sup>18, KLD<sup>+</sup>18, MBD16, MFES18, MWS17, MSS<sup>+</sup>12, NJK<sup>+</sup>17, OMO<sup>+</sup>15, PWHW18b, PWW19, SWE<sup>+</sup>19, WCW<sup>+</sup>16b, WTM14]. **eelpout** [AHB<sup>+</sup>17]. **eels** [BSC<sup>+</sup>14, CSA<sup>+</sup>15, CHF<sup>+</sup>12, EMA17, EA18, FDST16, KAST17, LML12, LFP<sup>+</sup>11a, LFP<sup>+</sup>11b, WCW<sup>+</sup>16b]. **Effect** [AMA11, CMEV17a, CAS<sup>+</sup>18, DSSB18, DSSB19, GVB<sup>+</sup>17a, HKBD15a, JQK14, KSM<sup>+</sup>17, KBE<sup>+</sup>14, KCL14, MMD<sup>+</sup>12, RRG<sup>+</sup>19, SSSP18, SK15, SDR<sup>+</sup>15, SCS<sup>+</sup>12, SW11, AHH16, AH16, AMRHM18, ACA<sup>+</sup>16, AAV<sup>+</sup>16, BND<sup>+</sup>17, BLP10, CGR17, CMH<sup>+</sup>17, DSA<sup>+</sup>12, ESA<sup>+</sup>10, FFP<sup>+</sup>14, GBV<sup>+</sup>16, GHB<sup>+</sup>11, HFKF17, IPW<sup>+</sup>13, LAN<sup>+</sup>14, MTK<sup>+</sup>10, OLC11, PVIM18, SSC17, YSHG18, YFA<sup>+</sup>17, SOGR<sup>+</sup>19]. **effective** [ANB<sup>+</sup>19, CB13, SMFM12]. **effectively** [RPMRLJ<sup>+</sup>19]. **effectiveness** [GVB<sup>+</sup>17b, GVB<sup>+</sup>17a, NNC<sup>+</sup>18, TJR<sup>+</sup>18]. **Effects** [BPCS19, JBGP11, JJV<sup>+</sup>15, KFK<sup>+</sup>16, LKS<sup>+</sup>13, LPC<sup>+</sup>18, PG16, PMPG<sup>+</sup>16, TTL<sup>+</sup>16, TMC<sup>+</sup>12, VDO<sup>+</sup>18b, VMCM14, BSD<sup>+</sup>18d, BHA<sup>+</sup>17, EDP<sup>+</sup>17, ELI<sup>+</sup>17, HBB14, JST<sup>+</sup>19, LLL<sup>+</sup>18a, MDF<sup>+</sup>17, MMMD16, NCNB18, PNBK13, PMBM13, PPI<sup>+</sup>13, SHS14, UKS<sup>+</sup>18, VCLW16, VBL<sup>+</sup>15, WXWD15, XKB12]. **Efficacy** [BNS13, FHD13, HLL<sup>+</sup>12, HJN<sup>+</sup>19, MSCH14, RSH11, SSV<sup>+</sup>10, SGB<sup>+</sup>16, SKGE13, WGL17, ZPM<sup>+</sup>18, BAH<sup>+</sup>16, CDW17, DD18, ESA<sup>+</sup>10, HLHS11, HCL<sup>+</sup>14, KWGS19, LML12, LWJ<sup>+</sup>16, MWRSK17, MA16, NCNB18, OMB<sup>+</sup>19, PZL<sup>+</sup>14, RNM<sup>+</sup>12, SMR10, SSSP18, TNK12, VDO<sup>+</sup>18a]. **efficient** [EYF<sup>+</sup>19]. **efforts** [JR19]. **EGCG** [WCR<sup>+</sup>18]. **egg** [AHH16, BAH<sup>+</sup>16, FHFF15, GM11, MGM<sup>+</sup>18]. **eggs** [KBE<sup>+</sup>14, MWRSK17, OBD10, SWWN<sup>+</sup>16, SMFM12, TES11]. **Egusa** [ZCC18]. **Egyptian** [NFF<sup>+</sup>17]. **EHP** [SSV<sup>+</sup>17]. **EHP-infected** [SSV<sup>+</sup>17]. **Eigenmann** [Lek12]. **eight** [JCN<sup>+</sup>13, JCN<sup>+</sup>14, KRFT14]. **EIIB** [XXL<sup>+</sup>19]. **Eimeriidae** [dSdAdS<sup>+</sup>19]. **ELASA** [YLX<sup>+</sup>19a, ZLN<sup>+</sup>17]. **Elasmobranchii** [MdOO16]. **elasmobranchs** [KJB11]. **electric** [MSS<sup>+</sup>12]. **electricus** [MSS<sup>+</sup>12]. **electrophoresis** [LLL<sup>+</sup>12, TAC15]. **Electrophorus** [MSS<sup>+</sup>12]. **Eleginops** [GOM<sup>+</sup>19]. **element** [CYS17]. **Elevation** [Bin14]. **ELISA** [BWZ<sup>+</sup>17, LMG<sup>+</sup>19, ZWG<sup>+</sup>18]. **Ellidaár** [áKÁGA16]. **Ellis** [Rob11]. **elongation** [PLCC11]. **elongatoides** [FŠK<sup>+</sup>19]. **EM-90-like** [RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, SHO<sup>+</sup>17]. **EM90** [MID<sup>+</sup>19b, MID<sup>+</sup>19a]. **EM90-like**

[MID<sup>+</sup>19a, MID<sup>+</sup>19b]. **emaciation** [KOI<sup>+</sup>14]. **emamectin** [GSS<sup>+</sup>10, HLHS11, IPW<sup>+</sup>13, JHGR13, KWGS19, LML12, PPI<sup>+</sup>13, SMR10, SMM<sup>+</sup>13, Sam10, WWE<sup>+</sup>13]. **emarginatus** [VDO<sup>+</sup>18a]. **embedded** [FBL<sup>+</sup>14, FGR<sup>+</sup>12]. **emerald** [HAP<sup>+</sup>10, LRB<sup>+</sup>17, MGN<sup>+</sup>16]. **Emergence** [AHB<sup>+</sup>17, JHGR13]. **Emerging** [BK12, EKT<sup>+</sup>11, NSC<sup>+</sup>15, OLVJ<sup>+</sup>13, PRT<sup>+</sup>14, VJWC<sup>+</sup>18]. **emphasis** [VGI<sup>+</sup>16, WBD10a]. **employ** [SWWN<sup>+</sup>16]. **employing** [MFES18]. **empty** [CBM<sup>+</sup>18]. **EMS** [BPK<sup>+</sup>17, ITKH18]. **EMS/** [ITKH18]. **EMS/AHPND** [BPK<sup>+</sup>17]. **Encephalomyelitis** [MKH<sup>+</sup>11, YYF<sup>+</sup>10]. **encephalopathy** [DVC<sup>+</sup>17, GFB<sup>+</sup>13, NOST<sup>+</sup>16, VPP<sup>+</sup>12]. **encoded** [CCLL16, CGW<sup>+</sup>19, LCC<sup>+</sup>15]. **endangered** [VPP<sup>+</sup>12]. **endocarditis** [WEPB<sup>+</sup>18]. **endogenous** [BMBS12]. **Endolimax** [CPP14, CPdPP16]. **endoparasitic** [Buc12]. **endothelial** [OMO<sup>+</sup>15, WCW<sup>+</sup>16b]. **England** [TDJ<sup>+</sup>10, TWJP10]. **Enhanced** [MTHB13, NNC<sup>+</sup>18]. **Enhancement** [SRB12, LSC<sup>+</sup>14]. **enhances** [CR12, ZCJ<sup>+</sup>18]. **enhancing** [BRB<sup>+</sup>12]. **enolase** [BMT<sup>+</sup>15]. **enrichment** [YGL<sup>+</sup>18]. **enteric** [DPC<sup>+</sup>10, LXL<sup>+</sup>18, XLZ<sup>+</sup>17]. **entering** [CDM<sup>+</sup>13, VCR<sup>+</sup>11]. **enteritis** [MTLP<sup>+</sup>18b, WZQ<sup>+</sup>16]. **Enterobacter** [GCNB16]. **Enterobacteriaceae** [KMGK<sup>+</sup>18]. **enterobacterial** [TAC15]. **enterocytes** [RRO<sup>+</sup>13]. **Enterocytozoon** [KS19, SSV<sup>+</sup>17, TSK<sup>+</sup>19]. **enteromyxosis** [LBF<sup>+</sup>14]. **Enteromyxum** [ERÁpSB14, SSJ<sup>+</sup>19]. **Enterospora** [ACSB<sup>+</sup>19]. **enterotoxin** [MBB12]. **envelope** [LC17]. **environment** [JFWH19]. **environmental** [DIVC16, GFM<sup>+</sup>16, HSA17, KOB<sup>+</sup>17, SMR16]. **environments** [EMA17, MKKM15, PJJ<sup>+</sup>12]. **enzyme** [BWZ<sup>+</sup>17, BA14, NMIY14, YLX<sup>+</sup>19a, ZLN<sup>+</sup>17]. **enzyme-linked** [BWZ<sup>+</sup>17, NMIY14, YLX<sup>+</sup>19a, ZLN<sup>+</sup>17]. **enzymes** [BSV<sup>+</sup>18, BSD<sup>+</sup>18a]. **epaulette** [JK12]. **EPC** [WBD<sup>+</sup>10b]. **Ephippidae** [DTM<sup>+</sup>10]. **epicarditis** [DKG<sup>+</sup>17]. **Epidemiological** [GJVT<sup>+</sup>11, SEK<sup>+</sup>16, DIVC16, GCW17, JHRW17, MSBB<sup>+</sup>16, MFS<sup>+</sup>17, SMS<sup>+</sup>10]. **epidemiology** [EEMCEGSP16, JJM<sup>+</sup>17, NBJ10]. **Epidermal** [CKJ<sup>+</sup>14, PJU<sup>+</sup>13]. **epidermoid** [SdMVS<sup>+</sup>16]. **Epinephalus** [OKS<sup>+</sup>13]. **Epinephelus** [BFFA<sup>+</sup>12, CBH<sup>+</sup>15, DDBC<sup>+</sup>15, FHZ<sup>+</sup>16, GHH<sup>+</sup>11, GHW<sup>+</sup>15, KCD<sup>+</sup>14, LXL<sup>+</sup>18, LSC<sup>+</sup>14, LSA<sup>+</sup>15, LMM<sup>+</sup>15, LMM<sup>+</sup>16, NNC<sup>+</sup>18, NDA<sup>+</sup>19, OTN<sup>+</sup>12, PMP<sup>+</sup>18, RBS<sup>+</sup>16, RSF<sup>+</sup>17, SSF<sup>+</sup>17, Wen16, WCL<sup>+</sup>12, XLZ<sup>+</sup>17, ZDWH18]. **epithelial** [AHPR<sup>+</sup>16, BCLM<sup>+</sup>19, BKG<sup>+</sup>18, GCM<sup>+</sup>18b, RBL<sup>+</sup>11, VBL<sup>+</sup>16]. **Epitheliocystis** [CMR<sup>+</sup>16, MSR<sup>+</sup>10, SN14, SPV<sup>+</sup>18, SVV<sup>+</sup>17]. **Epithelioma** [GSBEM15, WBD<sup>+</sup>10b]. **Epizootic** [CCM<sup>+</sup>11, BO15, CCT<sup>+</sup>11, CLW<sup>+</sup>13, CdAPdC<sup>+</sup>19, DWL<sup>+</sup>17, HHC<sup>+</sup>18, LFL19]. **Epizootics** [BDB<sup>+</sup>18, HGG<sup>+</sup>11]. **epizootiologic** [FLVA10]. **erectus** [BCW<sup>+</sup>15, QWTL17, SBHC18, WZQ<sup>+</sup>16]. **Ergens** [BGRB14]. **Eriocheir** [DML<sup>+</sup>16, DCZ<sup>+</sup>17, FGJ<sup>+</sup>10, HGW<sup>+</sup>19, SCS<sup>+</sup>12, ZB12, DCL<sup>+</sup>17]. **eriocheiris** [DXX<sup>+</sup>15, HGW<sup>+</sup>19, LXX<sup>+</sup>17]. **ERM** [WGL17]. **erosions** [ONA10]. **Erratum** [Ano10a, Ano10b, Ano11, Ano14, RMSH10, TCC10b].

**Erysipelothrix** [CSA<sup>+15</sup>, PRY<sup>+18</sup>]. **erythrocytes** [VSDS<sup>+19a</sup>].  
**Erythromycin** [JML19, DdRCP13, DPCdR14, LLX<sup>+19</sup>].  
**erythromycin-resistant** [LLX<sup>+19</sup>]. **erythropolis** [PBMB11].  
**erythropterus** [CLWJ13, TIK<sup>+14b</sup>]. **escaped** [MKI<sup>+15</sup>]. **Escherichia**  
[SNM<sup>+16</sup>]. **Esox** [Ano12c, KF10b, MF12, Reh13]. **Essential**  
[VGI<sup>+16</sup>, BSD<sup>+18c</sup>, OJRL10, VDO<sup>+18a</sup>, ZKL<sup>+19</sup>]. **establish** [OM10].  
**established** [AZSSZZ13]. **Establishment**  
[BNC<sup>+11</sup>, CLL<sup>+10</sup>, GHH<sup>+11</sup>, GHW<sup>+15</sup>, IFF<sup>+15</sup>, KLW10, KAESEM13,  
LJC<sup>+19</sup>, WWS<sup>+11</sup>, WWZ<sup>+18</sup>, WZW<sup>+18</sup>, XWP<sup>+18</sup>, YNL11, dOAPLá<sup>+17</sup>].  
**estimate** [KKKA17]. **estimates** [GBV<sup>+16</sup>, GVB<sup>+17a</sup>, MMG<sup>+11</sup>].  
**Estimating** [HDWM15]. **estuary** [DCV<sup>+14</sup>]. **ethanolic** [BAH<sup>+16</sup>].  
**Etropilus** [MRN<sup>+19</sup>]. **EU** [VCR<sup>+11</sup>]. **Euglena** [YSHG18]. **Eurasian**  
[BGRB14]. **europaeus** [DABO<sup>+17</sup>]. **Europe**  
[BLL<sup>+17</sup>, BMMP<sup>+14</sup>, COB<sup>+16</sup>, DKBS17, SBD11, SMJ<sup>+14</sup>, VCS<sup>+19</sup>].  
**European** [ARFG13, BMD<sup>+14</sup>, BND<sup>+17</sup>, BLSG<sup>+16</sup>, CGP<sup>+19</sup>, CKTT10,  
EA18, FCM<sup>+19</sup>, FPK<sup>+17</sup>, FDST16, GFM<sup>+16</sup>, KAST17, LMC<sup>+16</sup>, MBD16,  
MFES18, MAOS<sup>+18</sup>, MNM<sup>+18</sup>, NJK<sup>+17</sup>, PBM<sup>+15</sup>, PST<sup>+16</sup>, RRC<sup>+17</sup>,  
RPM<sup>+19</sup>, SWE<sup>+19</sup>, TMC<sup>+12</sup>, TNK12, Tre12, VTM<sup>+14</sup>, VC17]. **eutropha**  
[HBH<sup>+19</sup>]. **eutrophic** [HWO<sup>+17</sup>]. **evaluate** [LTG<sup>+18</sup>, RSF<sup>+17</sup>]. **evaluated**  
[MSC<sup>+17</sup>]. **Evaluating** [GVB<sup>+17b</sup>, HCL<sup>+14</sup>]. **Evaluation**  
[ATM<sup>+10</sup>, CBLN13, HKBD15b, RAM<sup>+19</sup>, ASS19, DSSB18, DSSB19, EAN<sup>+18</sup>,  
FDST16, HLHS11, KWGS19, LTC<sup>+14</sup>, LFP<sup>+11a</sup>, LFP<sup>+11b</sup>, LWJ<sup>+16</sup>,  
LLWL15, MID<sup>+19b</sup>, MNG<sup>+18</sup>, PVIM18, PPK<sup>+13</sup>, YDO<sup>+16</sup>, ZCCN13].  
**event** [BGC<sup>+17</sup>, BVT<sup>+18</sup>, BVL<sup>+18</sup>, DABO<sup>+17</sup>, FSC<sup>+16</sup>, KHLL16, LEM<sup>+19</sup>,  
MMW<sup>+15</sup>]. **events** [CdAPdC<sup>+19</sup>, GVB<sup>+17a</sup>, PTM<sup>+19</sup>]. **Evidence**  
[AHAMR<sup>+19</sup>, CZB<sup>+11</sup>, RDN<sup>+12</sup>, RGD<sup>+13</sup>, VME<sup>+19</sup>, YTKS19, ZN10,  
APP<sup>+17</sup>, CSS<sup>+16</sup>, CRO<sup>+18</sup>, COB<sup>+16</sup>, DJQ<sup>+12</sup>, DCMM13, GB18, GFW<sup>+10</sup>,  
HSC<sup>+16</sup>, IAR<sup>+10</sup>, vGJHS<sup>+11</sup>, KYK<sup>+12</sup>, KSA<sup>+10</sup>, MBS<sup>+17</sup>, MDC<sup>+18</sup>,  
MUM<sup>+19</sup>, ISCF<sup>+19</sup>]. **evolution** [SJ11, YGL<sup>+18</sup>]. **Examination**  
[MTA<sup>+15</sup>, HKF<sup>+16</sup>, JMHK18, MMMD16, MFES18]. **examining** [JSJR<sup>+19</sup>].  
**excised** [GGW<sup>+11</sup>]. **Exclusion** [AJLC<sup>+16</sup>]. **exercise** [GMC<sup>+16b</sup>]. **exerts**  
[BSD<sup>+18d</sup>]. **exhibit** [JGI<sup>+10</sup>]. **exilis** [RKPG16]. **exitiosa** [BLSG<sup>+16</sup>].  
**exogenous** [Góm12]. **Exophiala** [CBH<sup>+15</sup>, ŘKH17, ŘKH18, SBP<sup>+19</sup>].  
**Exophthalmia** [HFKF17]. **exopolysaccharides** [RBH<sup>+17</sup>]. **exotoxin**  
[RGD<sup>+13</sup>]. **expansion** [TALA11]. **experiencing**  
[GJM<sup>+15</sup>, NFF<sup>+17</sup>, RHZA<sup>+16</sup>]. **Experimental**  
[ABT<sup>+14</sup>, CAJD<sup>+18</sup>, CTK<sup>+10</sup>, DCMM13, FSV<sup>+18</sup>, ICVV16, vGJHS<sup>+11</sup>,  
KS19, KF10a, LSA<sup>+15</sup>, MUM<sup>+19</sup>, SON<sup>+18</sup>, WKW<sup>+11</sup>, ZCP12, AHHR<sup>+10</sup>,  
BSW17, Buc12, CJB<sup>+15</sup>, EDP<sup>+17</sup>, GFM<sup>+11</sup>, GBSF12, GRF14, GRP<sup>+15</sup>,  
JAR<sup>+11</sup>, KSA<sup>+10</sup>, LPA<sup>+10</sup>, LTG<sup>+18</sup>, MGM<sup>+18</sup>, MMMD16, MID<sup>+19b</sup>,  
PBM<sup>+15</sup>, PNBK13, ŘKH18, RHB<sup>+15</sup>, SGB<sup>+16</sup>, TDS<sup>+19</sup>, WIC<sup>+19</sup>, YDO<sup>+16</sup>].  
**experimentally** [ACN12, Ano12c, BSV<sup>+18</sup>, BSSB18, BSD<sup>+18b</sup>, BSD<sup>+18c</sup>,  
BSB<sup>+18</sup>, FCM<sup>+19</sup>, HGB<sup>+11</sup>, JML19, KSM<sup>+17</sup>, LF16, MF12, MTA<sup>+15</sup>,  
MTAB15, RSIP<sup>+17</sup>, SSV<sup>+17</sup>, SFL<sup>+16</sup>, TJB<sup>+15</sup>, TSS18, VTM<sup>+14</sup>].



**experiments** [FBAS16, KAEMSEM13]. **exploited** [LXX<sup>+</sup>17]. **exponential** [YGL<sup>+</sup>18]. **exposed** [Ano12c, CTK<sup>+</sup>10, FBK<sup>+</sup>16, FSO<sup>+</sup>10, HSGD11, KSA<sup>+</sup>10, KPM<sup>+</sup>11, MF12, SCR<sup>+</sup>15]. **exposure** [BSW17, CAS<sup>+</sup>18, DDBC<sup>+</sup>15, GFM<sup>+</sup>16, GGW<sup>+</sup>11, HCCM12, HKBD15b, HGG<sup>+</sup>11, IPW<sup>+</sup>13, MMMD16, PÁD18, TMC<sup>+</sup>12, VCN<sup>+</sup>10, VMCM14]. **exposures** [WNO<sup>+</sup>18]. **expressed** [JKC<sup>+</sup>11, LSA<sup>+</sup>15, OJRL10, SSV<sup>+</sup>10, TMM<sup>+</sup>15]. **expresses** [CGW<sup>+</sup>19]. **expressing** [EBM<sup>+</sup>18, ZXW<sup>+</sup>12]. **Expression** [ACYC10, PRSK10, PMK12, ZWY<sup>+</sup>11, AMA11, BPK<sup>+</sup>17, CLWJ13, CKJ<sup>+</sup>14, CG11, CDG<sup>+</sup>14, DMD<sup>+</sup>17, EDN18, FBVC16, IPW<sup>+</sup>13, JKH<sup>+</sup>17, JJS<sup>+</sup>12, LCV<sup>+</sup>17, NSE<sup>+</sup>17, NMIIY14, NYRS12, RBM<sup>+</sup>16, RHVG<sup>+</sup>19b, RSPA<sup>+</sup>18, SHKF16, SCK13, SWD<sup>+</sup>14, SJSA<sup>+</sup>14, TvWO<sup>+</sup>16, UKS<sup>+</sup>18, WCL<sup>+</sup>12, YK12, YYW<sup>+</sup>14]. **extant** [GRP<sup>+</sup>15]. **external** [AJLK<sup>+</sup>18, DPD<sup>+</sup>18, HCEH16, JMhk18, PDLW17]. **extra** [WCW16a]. **extracellular** [BGG11]. **extract** [BAH<sup>+</sup>16, HDC18, MSCH14]. **Extraction** [LRD<sup>+</sup>19]. **extracts** [YLX<sup>+</sup>19b]. **Extreme** [CBM<sup>+</sup>17, NNCLGC<sup>+</sup>11]. **extremely** [SVL<sup>+</sup>17]. **Exuberant** [HSHC<sup>+</sup>16]. **eye** [PAM<sup>+</sup>19, SM14].

**F** [BWM<sup>+</sup>13, PBC15]. **F-fluorodeoxyglucose** [BWM<sup>+</sup>13]. **F-type** [PBC15]. **F.** [GDW<sup>+</sup>15]. **Fabaceae** [VDO<sup>+</sup>18a]. **Fabricius** [DCMM13, DBM<sup>+</sup>14, FSO<sup>+</sup>10, JJS<sup>+</sup>12, RDN<sup>+</sup>12, STS<sup>+</sup>15]. **facilities** [VPP<sup>+</sup>12]. **facing** [GAVC16]. **factor** [BRB<sup>+</sup>12, KREM14, LSC<sup>+</sup>14, PLCC11, SSJ<sup>+</sup>19, YAHWU11, ZKL<sup>+</sup>19]. **factor-Tu** [PLCC11]. **Factors** [CHAB10, HGG<sup>+</sup>11, TES16, BHF13, DSSB18, DSSB19, DIVC16, FMB<sup>+</sup>11, JSJR<sup>+</sup>19, KAS<sup>+</sup>18, MMMD16, RMS<sup>+</sup>13, ZZC<sup>+</sup>17, ZJDL18]. **facultative** [AHAMR<sup>+</sup>19]. **faeces** [GCNB18, GBSF12]. **fairy** [SHW<sup>+</sup>11, SHS14]. **fallowing** [OM10]. **families** [JAR<sup>+</sup>11]. **family** [CSS<sup>+</sup>16, MNG<sup>+</sup>18, UN10]. **fan** [ZJDL18]. **fantail** [CDM<sup>+</sup>16]. **fario** [BSPS<sup>+</sup>18]. **farm** [AZSSZZ13, AdOG<sup>+</sup>17, BPK<sup>+</sup>17, BVG<sup>+</sup>10, EWRH13, KTP<sup>+</sup>15, KDA<sup>+</sup>18, LLH<sup>+</sup>14b, RRC<sup>+</sup>17, SMM<sup>+</sup>13]. **farm-raised** [AdOG<sup>+</sup>17, KTP<sup>+</sup>15]. **farmed** [ATP<sup>+</sup>16, AGR<sup>+</sup>16, AGFG19, ATP<sup>+</sup>17, AHTCA<sup>+</sup>17, BVK<sup>+</sup>16, BHO<sup>+</sup>19, BO15, BMH<sup>+</sup>19, BGCKF12, CGP<sup>+</sup>19, CRAG<sup>+</sup>12, DTM<sup>+</sup>10, DWP<sup>+</sup>19, DPD<sup>+</sup>18, FKB<sup>+</sup>14, FMH<sup>+</sup>15, FSB<sup>+</sup>18c, FCS<sup>+</sup>18, GRB<sup>+</sup>17, GBO<sup>+</sup>18, GGH<sup>+</sup>10, GFR<sup>+</sup>12, GCGR13, HKK<sup>+</sup>11b, HKD<sup>+</sup>10, HPY<sup>+</sup>13, IAR<sup>+</sup>10, JCS11, JHRW17, JHGR13, KAS<sup>+</sup>18, KOB<sup>+</sup>17, KYK<sup>+</sup>12, KAST17, MKI<sup>+</sup>15, MSMM19, MLMR16, MLER<sup>+</sup>18, MMB<sup>+</sup>15, MCSM17, MRSC13, MSR<sup>+</sup>10, MHNY18, MKH<sup>+</sup>11, MGH<sup>+</sup>14, MCW<sup>+</sup>18, MNM<sup>+</sup>18, MNM<sup>+</sup>19, NOV<sup>+</sup>11, NMM<sup>+</sup>18, OGI<sup>+</sup>18, PdLC19, PRT<sup>+</sup>14, PGF<sup>+</sup>19, QXW14, QPB<sup>+</sup>16, ŔKH16, RFA<sup>+</sup>14, RMSH09, SMR10, SCD19, SDWA18, SDM<sup>+</sup>19, SPS<sup>+</sup>17, SKJ13, SSA13, SNK<sup>+</sup>19, Tre12, VDMJ<sup>+</sup>13, WMM<sup>+</sup>16, WNAJ<sup>+</sup>16, YLL<sup>+</sup>18, YAHWU11, YP17, ZCCN13, ZNHC11a, ZNHC11b, ZZA<sup>+</sup>14, ZSZF16]. **farming** [BNS13, HSA17, JJB15, JR19, TAQ<sup>+</sup>10]. **farms** [BPK<sup>+</sup>17, BAH<sup>+</sup>18, CLS<sup>+</sup>15, CdAPdC<sup>+</sup>19, EWRH13, FLC<sup>+</sup>17, Gis18,

GFW<sup>+10</sup>, ISCF<sup>+19</sup>, MSBB<sup>+16</sup>, MSK<sup>+12</sup>, MCO11, NB11, NRF<sup>+18</sup>, NFF<sup>+17</sup>, OM10, SVM<sup>+18</sup>, SJK<sup>+14</sup>, SVY<sup>+14</sup>, WDM<sup>+15</sup>. **Faroe** [Gis18]. **fasciatus** [JJV<sup>+15</sup>, OKS<sup>+13</sup>]. **fast** [MLWC11, Sla14]. **fat** [RRG<sup>+19</sup>, SHV<sup>+16</sup>]. **fatal** [FSM<sup>+16</sup>]. **fate** [BSWS11]. **fathead** [AHR<sup>+10</sup>, CXW<sup>+19</sup>, JBGP11, MGN<sup>+16</sup>, PPF<sup>+12</sup>, WBD<sup>+10b</sup>]. **fatty** [DTF<sup>+16</sup>, MLF<sup>+10</sup>]. **fauna** [HSA17]. **favoured** [EMA17]. **Fe** [PLCC11]. **Fe-S** [PLCC11]. **features** [BOH<sup>+12</sup>, DMD<sup>+17</sup>, FFLC17, RAM<sup>+17</sup>, VFB<sup>+12</sup>]. **fecundity** [USM17]. **fed** [BSD<sup>+18d</sup>, TMC<sup>+12</sup>]. **feed** [AA10, ESA<sup>+10</sup>, JKL<sup>+13</sup>, KSM<sup>+17</sup>, NFA15, PPI<sup>+13</sup>, PFC<sup>+13</sup>, RHB<sup>+15</sup>, XKB12, dOAPLá<sup>+17</sup>]. **feeding** [JSAH<sup>+18</sup>, SJSA<sup>+14</sup>]. **feeds** [CBW19, NPGA<sup>+19</sup>, PNBK13]. **female** [DBS12, RAM<sup>+17</sup>, ZDWH18]. **fenbendazole** [FHD13]. **Fenneropenaeus** [NRMS14, WLX<sup>+10</sup>]. **fennicus** [VDH19]. **feral** [AAUHW15]. **fermented** [LKS<sup>+13</sup>]. **Ferreira** [HSGD11]. **ferritin** [NRMS14]. **fibroblast** [KLW10, SSG<sup>+19</sup>, VBL<sup>+16</sup>]. **fibroblastoid** [VKK<sup>+19</sup>]. **fibroblasts** [DJQ<sup>+12</sup>]. **fibromas** [BCW<sup>+15</sup>]. **fibrosarcoma** [DD15]. **Field** [MMD16, OTN<sup>+12</sup>, BSBH10, BWP<sup>+19b</sup>, FSG<sup>+12</sup>, HH13b, HBB<sup>+15</sup>, HKB<sup>+16</sup>, JMS13, LTG<sup>+18</sup>, MRR<sup>+14</sup>, RNM<sup>+12</sup>, TAC15, WWE<sup>+13</sup>]. **field-collected** [WWE<sup>+13</sup>]. **fighting** [RhAS<sup>+15</sup>]. **filaments** [MGM<sup>+16</sup>]. **Filifolinone** [PVIM18]. **fillets** [TWNB<sup>+12</sup>, TRS19]. **Filtration** [BRL<sup>+13</sup>]. **fin** [ASSP<sup>+15</sup>, BNC<sup>+11</sup>, CLL<sup>+10</sup>, FPK<sup>+17</sup>, GGW<sup>+11</sup>, KLW10, LJC<sup>+19</sup>, MSC<sup>+17</sup>, PWHW18b, SSG<sup>+19</sup>, VBL<sup>+16</sup>, YNL11]. **fin-derived** [SSG<sup>+19</sup>]. **findings** [STS<sup>+15</sup>]. **fine** [DPC<sup>+10</sup>]. **finfish** [WBD10a]. **fingerlings** [PYSS19, SSSP18]. **fingerprinting** [CYS17]. **Finland** [IAR<sup>+10</sup>]. **Finstad** [JCN<sup>+14</sup>]. **First** [ARR<sup>+18</sup>, BLdA<sup>+18</sup>, BRMG13, BQP12, BBL<sup>+16</sup>, BMMP<sup>+14</sup>, BMA13, BVT<sup>+18</sup>, CTD<sup>+12</sup>, CWW<sup>+18</sup>, CSA<sup>+15</sup>, DML<sup>+16</sup>, EPA<sup>+10</sup>, GRB<sup>+17</sup>, GGH<sup>+10</sup>, HSC<sup>+16</sup>, HHC<sup>+18</sup>, HKF<sup>+16</sup>, IGLG<sup>+17</sup>, KMGK<sup>+18</sup>, KPK<sup>+18</sup>, KDP<sup>+17</sup>, LFSZ18, LYL<sup>+18</sup>, LL12, LPVGL<sup>+10</sup>, MdOO16, MFES18, MVWS13, MDC<sup>+18</sup>, MHNY18, MCCN14, MNM<sup>+19</sup>, OGI<sup>+18</sup>, OCLI<sup>+19</sup>, PSVK<sup>+18</sup>, RHZA<sup>+16</sup>, RBF14, RPJ<sup>+18</sup>, SPP<sup>+18</sup>, SFBW<sup>+17</sup>, SPS<sup>+17</sup>, SMV<sup>+14</sup>, SdMVS<sup>+16</sup>, SWE<sup>+19</sup>, VDD<sup>+18</sup>, WBE<sup>+17</sup>, ZxYJ<sup>+19</sup>, ZCC18, dSRSHGá<sup>+19</sup>, APP<sup>+17</sup>, GL18, GKCC<sup>+12</sup>, HST<sup>+13</sup>, JDRM17, LUP<sup>+18</sup>, TIK<sup>+14a</sup>]. **Fish** [Buc12, DPADO16, KPSP<sup>+19</sup>, Loh13, Spe19a, ADMF15, ACAS14, AJLK<sup>+18</sup>, AAUHW15, AFTEML19, AHITC18, AHAMR<sup>+19</sup>, BSD<sup>+18c</sup>, BSB<sup>+18</sup>, BKS<sup>+17</sup>, BHF13, BPMI<sup>+16</sup>, Bin14, BFJ11, BCL<sup>+19</sup>, BMBS12, BGC<sup>+17</sup>, BWNS<sup>+11</sup>, BW18, BMMP<sup>+14</sup>, BGD<sup>+17</sup>, BFFA<sup>+12</sup>, BNS13, BWM<sup>+13</sup>, BMA13, CDM<sup>+13</sup>, CHH<sup>+14</sup>, CDF<sup>+18</sup>, CMSHS16, CD17, ÇOÇ<sup>+16</sup>, CGCAH12, dSCBdS<sup>+16</sup>, Dal18, DTM<sup>+10</sup>, DBV<sup>+13</sup>, DZC<sup>+16</sup>, DMD<sup>+17</sup>, DLCF13, DSA<sup>+12</sup>, DAB<sup>+12</sup>, DMK<sup>+19</sup>, DSJA18, EKT<sup>+11</sup>, EBM<sup>+18</sup>, ERÁpSB14, EPCSBP18, FBS13, FBAS16, FBK<sup>+16</sup>, FLVA10, FMA<sup>+19</sup>, FMB<sup>+11</sup>, FCS<sup>+18</sup>, GCNB18, GFB<sup>+13</sup>, GJK<sup>+11</sup>, GJMH17, GOM<sup>+19</sup>, GM10, GMN12, GWM12, GCGR13, GDN<sup>+16</sup>, HCCM12, HSA17, HGG<sup>+11</sup>, HY16, HGB<sup>+11</sup>, HAS<sup>+19</sup>, HWO<sup>+17</sup>, ISCF<sup>+19</sup>, JDRM17, JSJR<sup>+19</sup>, KHC<sup>+18</sup>,

KOI<sup>+14</sup>, KFK<sup>+16</sup>, KZJ<sup>+17</sup>, LFSZ18, LITCAH19b, LFH<sup>+11</sup>, LL12, LLH<sup>+14b</sup>, LHW<sup>+15a</sup>, LDEH17, LRMN17, MYWC18, MGM<sup>+18</sup>, MFHHG18, ME12, MKK<sup>+11</sup>]. **fish** [MLWC11, MR11, MJ17, MTHB13, MoSMS18, MSK<sup>+12</sup>, MMNL14, NN11, NFA15, NFF<sup>+17</sup>, NMIIY14, NSC<sup>+15</sup>, NHM<sup>+10</sup>, OT12, OJRL10, PPSW19, PKPG15, PKLH19, PSCFB<sup>+18</sup>, PNBK13, PRY<sup>+18</sup>, PBW<sup>+18</sup>, RHS<sup>+12</sup>, RHST<sup>+16</sup>, RhMM<sup>+15</sup>, RhAS<sup>+15</sup>, RhMV<sup>+15</sup>, RAM<sup>+19</sup>, RRC<sup>+17</sup>, RRO<sup>+13</sup>, RAS<sup>+10</sup>, RCD<sup>+17</sup>, RHBMM13, RE14, SJDC<sup>+13</sup>, SMF<sup>+10</sup>, SSHEM11, SZM<sup>+15</sup>, SCK13, SWD<sup>+14</sup>, SMJ<sup>+14</sup>, Spe19b, SMS<sup>+18</sup>, SKB10, SKJ13, SN14, SSO<sup>+14</sup>, TIK<sup>+14a</sup>, TSS18, TWJP10, TAQ<sup>+10</sup>, TQW<sup>+14</sup>, TMWV14, VMCM14, VCR<sup>+11</sup>, VC17, VME<sup>+19</sup>, WDM<sup>+15</sup>, WMM17, WMD<sup>+18</sup>, WYZ<sup>+19</sup>, WKW13, WNCR12, ZZC<sup>+17</sup>, ZHFC11, ZGY<sup>+18</sup>, ZXW<sup>+12</sup>]. **fish-farming** [BNS13, TAQ<sup>+10</sup>]. **fish-myxozoan** [EPCSBP18]. **fish-pathogenic** [CHH<sup>+14</sup>, FLVA10]. **fish-to-fish** [HGG<sup>+11</sup>]. **fishable** [MMG<sup>+11</sup>]. **fishery** [MMG<sup>+11</sup>, TJR<sup>+18</sup>]. **fishes** [ARL<sup>+17</sup>, AAZS<sup>+15</sup>, FDL<sup>+17</sup>, KPT<sup>+11</sup>, MA16, PAZ18, RWTB17, RBR19]. **fishpathogens.eu** [MPJ<sup>+15</sup>]. **fishpathogens.eu/noda** [MPJ<sup>+15</sup>]. **five** [BOH<sup>+12</sup>, BBP18, THW<sup>+12</sup>]. **fixation** [CBLN13, CMS<sup>+17</sup>]. **fixed** [FGR<sup>+12</sup>, WWE<sup>+13</sup>]. **fixed-dose** [WWE<sup>+13</sup>]. **fjord** [KAST17, SVY<sup>+14</sup>]. **flagellar** [YK12]. **flat** [BLSG<sup>+16</sup>]. **flavescens** [KHELL16, OEG<sup>+13</sup>, PHvdH12, SGQ<sup>+15</sup>]. **Flavobacteria** [ATJS<sup>+18</sup>, LF18]. **Flavobacterium** [BBF<sup>+15</sup>, BLF<sup>+16</sup>, BMA13, BLFC12, CHV<sup>+12</sup>, CAJD<sup>+18</sup>, DBS12, DBV<sup>+13</sup>, DMP10, DJR<sup>+19</sup>, DLPR15, DSLR16, FDL<sup>+17</sup>, FNISE12, GLW<sup>+18</sup>, GCW17, GPL<sup>+12</sup>, GDW<sup>+15</sup>, HKBD15a, HKBD15b, HJN<sup>+19</sup>, HRNW15, JDH<sup>+18</sup>, JML19, KSS<sup>+15</sup>, LLC<sup>+11</sup>, LWWS14, LGD<sup>+17</sup>, LGS19, LFD<sup>+17</sup>, LZZN10, LLL<sup>+12</sup>, LF16, LPCC12, MBS<sup>+19a</sup>, MBOC19, NN11, NSB<sup>+18</sup>, NOV<sup>+11</sup>, OFA11, OBD<sup>+11</sup>, PDLW17, PLCC11, PFJ<sup>+10</sup>, RHB<sup>+15</sup>, SDWA18, dASLS<sup>+19</sup>, SL15, SLPB18, SEK<sup>+16</sup>, SWE<sup>+19</sup>, SBW11, SW11, TQW<sup>+14</sup>, WSA<sup>+18</sup>]. **FLIV** [JLJ16]. **Florfenicol** [DdRTM13, FHZ<sup>+16</sup>, JML19, RHTC19b, RSH11, SKGE13, YVM<sup>+14</sup>, dOAPLá<sup>+17</sup>]. **Florida** [BA13]. **flounder** [DBHC17, HKK<sup>+11b</sup>, JKC<sup>+11</sup>, JLJ16, KKK<sup>+18</sup>, LKS<sup>+13</sup>, LPC<sup>+18</sup>, SSJ<sup>+19</sup>, TOK<sup>+16</sup>, WWS<sup>+11</sup>]. **flow** [BRL<sup>+13</sup>, CHB<sup>+17</sup>, PSK<sup>+13</sup>, WSX<sup>+18</sup>]. **flow-through** [PSK<sup>+13</sup>]. **flower** [RHST<sup>+16</sup>, RhMM<sup>+15</sup>, RhMV<sup>+15</sup>]. **fluorescence** [AS17, DXX<sup>+15</sup>, KTK17, LGC<sup>+19</sup>]. **fluorescence-based** [AS17]. **fluorescens** [GPGAG19]. **fluoro** [SRD<sup>+16</sup>]. **fluorodeoxyglucose** [BWM<sup>+13</sup>]. **fluviatilis** [BGRB14, BGCKF12, CGP<sup>+19</sup>, PBM<sup>+15</sup>, RPM<sup>+19</sup>, SKPS16, VPP<sup>+12</sup>]. **focal** [BHO<sup>+19</sup>]. **folifer** [BCJ13]. **follicles** [CZB<sup>+11</sup>]. **follow** [BMGS17, PPI<sup>+13</sup>]. **follow-up** [BMGS17, PPI<sup>+13</sup>]. **following** [ASSP<sup>+15</sup>, BSW17, CRS<sup>+13</sup>, ECP<sup>+10</sup>, FGJ<sup>+10</sup>, GVB<sup>+17a</sup>, GMC<sup>+16b</sup>, GBSF12, HCCM12, IPW<sup>+13</sup>, JAJC<sup>+18</sup>, LWJ<sup>+16</sup>, MBS<sup>+19a</sup>, MMG<sup>+11</sup>, PSK<sup>+12</sup>, PFC<sup>+13</sup>, TWNB<sup>+12</sup>]. **follows** [KDA<sup>+18</sup>]. **fomites** [PJL<sup>+12</sup>]. **fontinalis** [DGS<sup>+14</sup>]. **Food** [LDÁM14, SNM<sup>+16</sup>]. **foodborne** [TOK<sup>+16</sup>].

**foraging** [BND<sup>+</sup>17]. **foreign** [LL11]. **fork** [DD15]. **fork-tailed** [DD15].  
**formalin** [FGR<sup>+</sup>12]. **formalin-fixed** [FGR<sup>+</sup>12]. **formation**  
 [DSSB18, DSSB19, LFD<sup>+</sup>17, LITCAH19b, LTC17, SFR<sup>+</sup>17, SW11].  
**formerly** [MJ17]. **forming** [CD17]. **formosus** [KVC<sup>+</sup>16]. **forms** [SQC<sup>+</sup>14].  
**Forsskål**  
 [DTM<sup>+</sup>10, LQY11, LSC<sup>+</sup>14, LSA<sup>+</sup>15, LMM<sup>+</sup>15, LMM<sup>+</sup>16, SGR<sup>+</sup>18, Wen16].  
**Forster** [ABC<sup>+</sup>10, CB13]. **fortis** [WZQ<sup>+</sup>16]. **fortuitum** [PBW<sup>+</sup>18]. **fosteri**  
 [SFF<sup>+</sup>17]. **found** [AHTCA<sup>+</sup>17]. **Fouquet** [vGJHS<sup>+</sup>11]. **four**  
 [KKT<sup>+</sup>18a, NWMK16, XKB12]. **Fourier** [WNCR12]. **fractions** [LLC<sup>+</sup>11].  
**fracture** [FvdMF<sup>+</sup>18]. **France** [BVL<sup>+</sup>18, BBL<sup>+</sup>16]. **franciscana**  
 [TNK12, WBF<sup>+</sup>10]. **Francisella** [ATP<sup>+</sup>17, BFJ11, CDM<sup>+</sup>13, GIW<sup>+</sup>11,  
 KBTMH<sup>+</sup>16, PLC<sup>+</sup>19b, SPKS17, SKGE13]. **francisellosis**  
 [AdOG<sup>+</sup>17, KBTMH<sup>+</sup>16, RPMRLJ<sup>+</sup>19, RBWR<sup>+</sup>15]. **Frank** [Cip11]. **Fraser**  
 [BLP10]. **Fredericella** [KAEM13]. **free**  
 [HKF<sup>+</sup>16, MB17, MPJ<sup>+</sup>15, YSV<sup>+</sup>13]. **free-swimming** [HKF<sup>+</sup>16]. **freedom**  
 [JKS<sup>+</sup>13]. **Freeman** [MRSC13]. **French** [DTM<sup>+</sup>10]. **frequency** [LRS<sup>+</sup>17].  
**fresh** [JZK<sup>+</sup>14, MSR<sup>+</sup>10, NOV<sup>+</sup>11, WNGS<sup>+</sup>17]. **freshwater**  
 [ADMF15, ACA<sup>+</sup>16, AAV<sup>+</sup>16, Ano10c, ACM<sup>+</sup>14, BAD<sup>+</sup>12, BMMP<sup>+</sup>14,  
 CJB<sup>+</sup>15, DXX<sup>+</sup>15, FMT<sup>+</sup>14, GB18, GTT<sup>+</sup>17, GGH<sup>+</sup>10, GJMH17, JTW<sup>+</sup>10,  
 LFSZ18, LL12, LYKN18, MRR<sup>+</sup>14, MdOO16, MSK<sup>+</sup>12, NHM<sup>+</sup>10, PPSW19,  
 PKPG15, RNM<sup>+</sup>12, RWTB17, VPP<sup>+</sup>12, WMM<sup>+</sup>16, WOD16, WNO<sup>+</sup>18].  
**freshwater-** [GTT<sup>+</sup>17]. **freshwaters** [SMJ<sup>+</sup>14]. **FRET** [SMF<sup>+</sup>10]. **frog**  
 [DPADO16]. **Front** [MBS<sup>+</sup>19b, RHVG<sup>+</sup>19a]. **frozen** [TRS19]. **fry** [CJB<sup>+</sup>15,  
 DSLR16, GCM<sup>+</sup>18b, HKBD15b, KEY<sup>+</sup>15, PDLW17, SCR<sup>+</sup>15, WKK12].  
**FTA** [PSK<sup>+</sup>13]. **Full** [NRMS14, NDA<sup>+</sup>19]. **Full-length** [NRMS14].  
**function** [BMD<sup>+</sup>14, JBGP11]. **functional** [WCL<sup>+</sup>19, ZZQ<sup>+</sup>19]. **Fundy**  
 [NRF<sup>+</sup>18]. **funebri** [BCG<sup>+</sup>17, CHF<sup>+</sup>12]. **funga** [ŘKH16]. **fungicide**  
 [MMMD16]. **fungus** [SMFM12]. **furcatus** [LTC<sup>+</sup>14, XKBC12]. **furnieri**  
 [MPM16]. **Further** [KWGS19]. **furunculosis** [GGH<sup>+</sup>10]. **Fusarium**  
 [KDP<sup>+</sup>17]. **fuscoguttatus**  
 [SSF<sup>+</sup>17, LSC<sup>+</sup>14, LSA<sup>+</sup>15, LMM<sup>+</sup>15, LMM<sup>+</sup>16, NDA<sup>+</sup>19, Wen16, ZDWH18].  
**fusions** [DWP<sup>+</sup>19]. **future** [ZGY<sup>+</sup>18].

**g** [LSC<sup>+</sup>14, CGW<sup>+</sup>19, LZZN10]. **Gadus** [BSWS11, BMGS17, BK12,  
 FvdMF<sup>+</sup>18, GIW<sup>+</sup>11, GGGM14, HLHS11, HKD<sup>+</sup>10, HFKF17, MVM<sup>+</sup>18,  
 MBB12, OBD10, PG16, RBWR<sup>+</sup>15, Sam10, ZCP12]. **Gaimard**  
 [CCMA<sup>+</sup>17, PC17, WCW<sup>+</sup>16b]. **Galicia** [DIVC16, RAVC18]. **gamete**  
 [LST<sup>+</sup>12]. **gametes** [KSA<sup>+</sup>10]. **GAPDH** [ZXW<sup>+</sup>12]. **garipepinus**  
 [DAO19, HGPD11, HOHG13, LvD18, OOO<sup>+</sup>11, OAO<sup>+</sup>12, SRT<sup>+</sup>14, TMWV14].  
**garlic** [MSCH14, NDA10]. **Garman** [AFA<sup>+</sup>12]. **Garra** [VME<sup>+</sup>19]. **garvieae**  
 [ABT<sup>+</sup>14, CLT<sup>+</sup>14, DPMK12, FLC<sup>+</sup>17, HY16, PSBG<sup>+</sup>11, TAC15]. **Gas**  
 [SBHC18, RPJ<sup>+</sup>18]. **Gasterosteus** [ASW16, PJZB19, WFH<sup>+</sup>18]. **Gastric**  
 [LWMT10, dSdAdS<sup>+</sup>19, BB11, LL11]. **gastroenteritis**  
 [DPTFC10, DPTCF10, RBL<sup>+</sup>11]. **gastrointestinal** [ABF15, BLFC12]. **GBS**

[BFFA<sup>+12</sup>]. **GC** [ZCJ<sup>+18</sup>]. **GC-MS-based** [ZCJ<sup>+18</sup>]. **GCRV** [ZWG<sup>+18</sup>]. **gel** [TAC15]. **Gene** [RHVG<sup>+19b</sup>, AMA11, CLWJ13, CCLL16, CGW<sup>+19</sup>, CGG<sup>+10</sup>, CKJ<sup>+14</sup>, CKTT10, dJDAVRGM<sup>+18</sup>, EDN18, FMA<sup>+19</sup>, JJS<sup>+12</sup>, LCV<sup>+17</sup>, LCC<sup>+15</sup>, LXZ<sup>+19</sup>, MPBM<sup>+16</sup>, MNG<sup>+18</sup>, NSE<sup>+17</sup>, OBR<sup>+14</sup>, QZZ<sup>+18b</sup>, RB15, RSPA<sup>+18</sup>, SWD<sup>+14</sup>, TMM<sup>+15</sup>, UKS<sup>+18</sup>, YYW<sup>+14</sup>, ZWY<sup>+11</sup>, ZZQ<sup>+19</sup>]. **gene-encoded** [CGW<sup>+19</sup>]. **generated** [SK15, SEK<sup>+16</sup>]. **Generation** [CHB<sup>+17</sup>, DWL<sup>+17</sup>, LMM<sup>+16</sup>]. **genes** [BCLM<sup>+19</sup>, BGC<sup>+17</sup>, CIL<sup>+17</sup>, COB<sup>+16</sup>, CDG<sup>+14</sup>, FVAVMGE18, FCL<sup>+19</sup>, JKH<sup>+17</sup>, LWWS14, LZZN10, LMM<sup>+15</sup>, LMM<sup>+16</sup>, NRMS14, OJRL10, SSV<sup>+10</sup>, SJS<sup>+14</sup>, TvWO<sup>+16</sup>, YK12]. **Genetic** [DMP10, HJT<sup>+16</sup>, KTP<sup>+15</sup>, MPBM<sup>+16</sup>, SDZN19, TOK<sup>+16</sup>, TCM<sup>+19</sup>, TWYC15, WM19, WNAF<sup>+13</sup>, WSA<sup>+18</sup>, ASB<sup>+12</sup>, BFC<sup>+15</sup>, COB<sup>+16</sup>, DZV10, DLPR15, ISCF<sup>+19</sup>, KNN19, LDEH17, NWMK16, RGMGG<sup>+18</sup>, SDWA18, SMC<sup>+11</sup>, VCS<sup>+19</sup>, VST<sup>+19</sup>, ZFZ<sup>+11</sup>]. **genetically** [JAR<sup>+11</sup>]. **genogroup** [ISCF<sup>+19</sup>]. **genogroups** [ABVS18, KWD<sup>+16</sup>]. **genome** [BFC<sup>+15</sup>, IBFL19, KKM<sup>+19</sup>, RKK<sup>+19</sup>, ZxyJ<sup>+19</sup>]. **genomes** [BHF13, YEK<sup>+17</sup>]. **Genomic** [DZC<sup>+16</sup>, RVC18, GBO<sup>+18</sup>, JGI<sup>+10</sup>, LCV<sup>+17</sup>, LLLG18, TCS19, YMH<sup>+11</sup>]. **genomovar** [BMA13, GLW<sup>+18</sup>, LWWS14, LGD<sup>+17</sup>, SL15]. **genotoxicity** [BA14]. **genotype** [Ano12c, CVLJ<sup>+10</sup>, CCW<sup>+15</sup>, CWW<sup>+18</sup>, GJVT<sup>+11</sup>, GVC<sup>+19</sup>, KF10a, KKK<sup>+18</sup>, LRD<sup>+19</sup>, MF12, VCS<sup>+19</sup>, VBL<sup>+16</sup>, WKW<sup>+11</sup>, ZWG<sup>+18</sup>]. **genotypes** [HB12, MMWK19, RPGCIG17, TDS<sup>+19</sup>, VLVS<sup>+16</sup>, VDHV<sup>+16</sup>]. **Genotypic** [DMK<sup>+19</sup>, PPSW19, WMD<sup>+18</sup>]. **genotypical** [PKPG15]. **Genotyping** [CLLF14, FSB<sup>+18c</sup>, BBC<sup>+10</sup>, FNISE12, LGS19]. **genus** [NSC<sup>+15</sup>]. **Genypterus** [IGLG<sup>+17</sup>]. **geographic** [AGFG19, GRG<sup>+16</sup>, SHO<sup>+17</sup>]. **Geographical** [GFR<sup>+12</sup>, CRS<sup>+13</sup>, DMK<sup>+19</sup>]. **geranyl** [PVIM18]. **Germany** [AHJS<sup>+18</sup>, BGRB14, KAST17]. **GFP** [RGD<sup>+12</sup>]. **GFP-labelled** [RGD<sup>+12</sup>]. **Ghanaian** [VJWC<sup>+18</sup>]. **Ghar** [YMBE13]. **giant** [BFFA<sup>+12</sup>, DCMM13, DBM<sup>+14</sup>, FMT<sup>+14</sup>, GHW<sup>+15</sup>, LYKN18]. **gibbosus** [LDEH17]. **gibel** [LJHG14, YLW<sup>+14</sup>, ZWLG10, ZYW<sup>+10</sup>]. **gibelio** [KJW<sup>+17</sup>, LJHG14, LLL<sup>+13</sup>, WXL16, YLW<sup>+14</sup>, ZWLG10]. **GICA** [LXX<sup>+17</sup>]. **gigas** [GVLE16, GCCLRP<sup>+13</sup>, HPY<sup>+13</sup>]. **Gilbert** [DBHC17, WWS<sup>+11</sup>]. **Gill** [BGRB14, MRSC13, MCO11, VCLW16, WNGS<sup>+17</sup>, ACN12, AHPR<sup>+16</sup>, ABC<sup>+10</sup>, BCLM<sup>+19</sup>, BPCS19, BLP10, CONN10, DYML<sup>+18</sup>, DT16, FGR<sup>+12</sup>, GGGM18b, GTT<sup>+17</sup>, GCM<sup>+18b</sup>, GDW<sup>+15</sup>, GFS<sup>+14</sup>, LDA<sup>+19</sup>, MLER<sup>+18</sup>, MR11, MGM<sup>+16</sup>, MCCN14, NBJ10, OSAA18, PGF<sup>+19</sup>, QPB<sup>+16</sup>, TCC10a, WNO<sup>+18</sup>]. **Gill-associated** [MCO11]. **gills** [CBLN13, FMM<sup>+19</sup>, HKBD15a, vGJHS<sup>+11</sup>, KSM<sup>+17</sup>, KVC<sup>+16</sup>, MAOS<sup>+18</sup>, WNMK<sup>+16</sup>]. **gilthead** [ACSB<sup>+19</sup>, BC11, CVLJ<sup>+10</sup>, CVGR<sup>+13</sup>, CCME16, DPCdR14, RHVG<sup>+19b</sup>, TPD<sup>+19</sup>, LGS<sup>+14</sup>]. **ginbuna** [NSS<sup>+17</sup>]. **Ginsburg** [DSMC17, LKT<sup>+13</sup>]. **Girard** [DXX<sup>+15</sup>, PSK<sup>+12</sup>]. **GIS**

[AGFG19]. **GIT** [ABF15]. **GIV** [LCC<sup>+</sup>15]. **GIV-2L** [LCC<sup>+</sup>15]. **gives** [SWS<sup>+</sup>16]. **gland** [SBHC18]. **glanis** [MAOS<sup>+</sup>18]. **glassfish** [Góm12]. **gleaned** [MJ17]. **Global** [SJ11]. **globalis** [SAS<sup>+</sup>19]. **glomerular** [DBHC17]. **glomerulonephritis** [LWMT10]. **glucan** [JSAH<sup>+</sup>18, SJS<sup>+</sup>14, UKS<sup>+</sup>18, YSHG18]. **glucans** [KBE<sup>+</sup>14]. **glucidic** [LDÁM14]. **Glugea** [ZCC18]. **glutaraldehyde** [MoSMS18]. **glycogenation** [TIK<sup>+</sup>14b]. **Glycolic** [ASHZ<sup>+</sup>12]. **Glycophorin** [AI11]. **glycoprotein** [ÇOÇ<sup>+</sup>16, EBM<sup>+</sup>18, HLL<sup>+</sup>12, IPW<sup>+</sup>13, MPBM<sup>+</sup>16]. **glycoprotein-based** [ÇOÇ<sup>+</sup>16]. **glycosylation** [FE11]. **Gnathia** [HSGD11]. **gnotobiotic** [RGD<sup>+</sup>12]. **gnotobiotically** [WBF<sup>+</sup>10]. **goby** [GFB<sup>+</sup>19, WZL<sup>+</sup>11]. **goes** [BSW17]. **gold** [KVC<sup>+</sup>16, LXX<sup>+</sup>17, SSHEM11]. **golden** [AZSI<sup>+</sup>12, CWL<sup>+</sup>17, HBB14, KHC<sup>+</sup>18, LYL<sup>+</sup>18, SM14, SWD<sup>+</sup>14]. **goldfish** [AHJS<sup>+</sup>18, BSK<sup>+</sup>10, BBL<sup>+</sup>16, GAEK<sup>+</sup>14, LCR<sup>+</sup>10, RMAM12, WIC<sup>+</sup>19, YNL11]. **goldlined** [SGR<sup>+</sup>18]. **goldring** [WA14]. **goldsinny** [BT14]. **goldsmidi** [ABC<sup>+</sup>10]. **gonads** [VMCM14]. **gondii** [SZM<sup>+</sup>15]. **Goode** [CHF<sup>+</sup>12]. **Gorbunova** [ME12]. **gorbuscha** [BPPKJ10, SMJ<sup>+</sup>12]. **gourami** [RWTB17]. **Goussia** [dSdAdS<sup>+</sup>19]. **governs** [FE11]. **gracilis** [YSHG18]. **grade** [VPCM19]. **gradient** [DLCC<sup>+</sup>13]. **Gram** [BHA<sup>+</sup>11, THW<sup>+</sup>12]. **Gram-negative** [THW<sup>+</sup>12]. **Gram-positive** [BHA<sup>+</sup>11]. **granular** [RVC18]. **granulation** [HSHC<sup>+</sup>16]. **granulomas** [AJLC<sup>+</sup>16, JK12, ZZA<sup>+</sup>14, ZWG<sup>+</sup>17]. **Granulomatous** [MTLP<sup>+</sup>18b, VPS<sup>+</sup>14, CPP14, NHM<sup>+</sup>10, dSRSHGá<sup>+</sup>19]. **grass** [GCWB11, LLL<sup>+</sup>12, LXHL11, WCR<sup>+</sup>18, YYW<sup>+</sup>14, ZWG<sup>+</sup>18]. **Great** [FDL<sup>+</sup>17, KF10b, GMP<sup>+</sup>11, RBF14, EKED<sup>+</sup>17, KF10a, OEG<sup>+</sup>13, WKW<sup>+</sup>11]. **greater** [MKH<sup>+</sup>11, dSRSHGá<sup>+</sup>19]. **Greek** [BCL<sup>+</sup>19]. **Green** [TCFáS19, BCG<sup>+</sup>17, KTK17]. **Grenada** [HHM<sup>+</sup>14]. **grey** [BK12, PMBM13]. **GroEL** [KREM14]. **gross** [DPTCF10, LFP<sup>+</sup>11a, LFP<sup>+</sup>11b]. **grounds** [BK12]. **group** [BVL<sup>+</sup>18, CDD<sup>+</sup>18, EMA17, GAC10, VBL<sup>+</sup>15]. **grouper** [BFFA<sup>+</sup>12, CBH<sup>+</sup>15, CCLL16, CGG<sup>+</sup>10, DDBC<sup>+</sup>15, FHZ<sup>+</sup>16, GHH<sup>+</sup>11, GHW<sup>+</sup>15, HLC<sup>+</sup>15, HHX<sup>+</sup>15, KKK<sup>+</sup>18, LCC<sup>+</sup>15, LSC<sup>+</sup>14, LSA<sup>+</sup>15, MRN<sup>+</sup>19, MSI<sup>+</sup>15, NNC<sup>+</sup>18, NDA<sup>+</sup>19, OTN<sup>+</sup>12, OKS<sup>+</sup>13, PMP<sup>+</sup>18, RBS<sup>+</sup>16, RSF<sup>+</sup>17, Wen16, WCL<sup>+</sup>12, XJL<sup>+</sup>19, YLX<sup>+</sup>19b, ZLN<sup>+</sup>17, ZDWH18]. **groupers** [KCD<sup>+</sup>14, LXL<sup>+</sup>18, SSF<sup>+</sup>17, XLZ<sup>+</sup>17]. **groups** [RB15]. **grow** [KDA<sup>+</sup>18]. **grow-out** [KDA<sup>+</sup>18]. **grown** [WBF<sup>+</sup>10]. **Growth** [MB17, NN11, ACA<sup>+</sup>16, CAS<sup>+</sup>18, CDG<sup>+</sup>14, DSSB18, DSSB19, GBO<sup>+</sup>18, HMP<sup>+</sup>12, LKS<sup>+</sup>13, LWZ<sup>+</sup>18, MLWC11, MPS<sup>+</sup>18, OLT<sup>+</sup>10, PMW<sup>+</sup>10, PMH<sup>+</sup>11, RHB<sup>+</sup>15, STF<sup>+</sup>15, SLPB18, SFU<sup>+</sup>13, VDHV<sup>+</sup>16, WKW13]. **grunter** [KRD<sup>+</sup>17, LLH<sup>+</sup>14b]. **guamaensis** [dSdAdS<sup>+</sup>19]. **Guangxi** [LYL<sup>+</sup>18]. **Gubanov** [CIA<sup>+</sup>18]. **gudgeon** [MKK<sup>+</sup>11]. **gueldenstaedtii** [RFA<sup>+</sup>14]. **Guichenot** [IGLG<sup>+</sup>17]. **guidelines** [HHO14, LTM<sup>+</sup>19]. **Guilford** [SGQ<sup>+</sup>15]. **guitarfish** [AFA<sup>+</sup>12]. **Guitart** [ABM<sup>+</sup>15]. **Gulf** [BB11, DBHC17, GCCLRP<sup>+</sup>13, PJZB19]. **Günther** [Dig13, Dig15, IOO15, Pol15, RBF14, SRT<sup>+</sup>14, XJL<sup>+</sup>15, YCNW18, ZQB<sup>+</sup>11]. **guppies** [BCM<sup>+</sup>17, LCOZ10]. **guppy** [SPLV<sup>+</sup>15]. **Gut**

[JKL<sup>+13</sup>, DCZ<sup>+17</sup>, RBL<sup>+11</sup>]. **guttulatus** [BQP12]. **Gymnocephalus** [MGM<sup>+16</sup>]. **Gymnocorymbus** [SHAM14]. **Gymnothorax** [BCG<sup>+17</sup>, CHF<sup>+12</sup>]. **Gymnotus** [DMD<sup>+17</sup>, VMCM14]. **Gymnura** [BCJ13]. **gyrA** [HBB<sup>+15</sup>]. **gyrodactylid** [YEK<sup>+17</sup>]. **Gyrodactylus** [GAC10, HHO14, HKG<sup>+15</sup>, KHG<sup>+17</sup>, LP17, PHVM13, PB18, WKK12, YEK<sup>+17</sup>].

**H** [ZB12]. **H.** [NRMS14]. **H6** [AJLK<sup>+18</sup>]. **Haan** [ZSZF16]. **habitats** [OMO<sup>+15</sup>, YkSKY13, ZYW<sup>+10</sup>]. **haddock** [JHM<sup>+18</sup>]. **haem** [OJRL10]. **haemal** [FvdMF<sup>+18</sup>]. **haemangioma** [SMD<sup>+12</sup>]. **Haematological** [KPM<sup>+11</sup>]. **Haematopoietic** [LLL<sup>+13</sup>, ASHZ<sup>+12</sup>, EBM<sup>+18</sup>, JSK<sup>+10</sup>, MNM<sup>+19</sup>, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PBM<sup>+15</sup>, SJDC<sup>+13</sup>, YHY<sup>+16</sup>]. **haemic** [MMMD16, MMD16]. **haemocyte** [TDLT<sup>+16</sup>, TDT<sup>+16</sup>]. **haemocytes** [FBVC16]. **haemoglobin** [UN10]. **Haemogregarinidae** [MdOO16]. **haemolysin** [DJQ<sup>+12</sup>]. **haemolytic** [MFS<sup>+17</sup>, OAO<sup>+12</sup>]. **haemorrhage** [PWW19]. **haemorrhagic** [AHHR<sup>+10</sup>, AHPR<sup>+16</sup>, Ano12c, DPADO16, EKED<sup>+17</sup>, GJVT<sup>+11</sup>, GFB<sup>+19</sup>, GGW<sup>+11</sup>, GVC<sup>+19</sup>, HLL<sup>+12</sup>, HGG<sup>+11</sup>, HPAL10, JKS<sup>+13</sup>, KKK15, KF10a, KF10b, LVADB17, MMBS10, MF12, MMW<sup>+15</sup>, OEG<sup>+13</sup>, PBM<sup>+15</sup>, PJJ<sup>+12</sup>, RMS<sup>+13</sup>, SHJ<sup>+12</sup>, SJ11, VLVS<sup>+16</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, WDM<sup>+15</sup>, WKW<sup>+11</sup>, ZLX<sup>+19</sup>]. **Hafnia** [OSC<sup>+14</sup>]. **half** [XJL<sup>+15</sup>]. **half-smooth** [XJL<sup>+15</sup>]. **halibut** [BBP18, ONA10, RSH11]. **Halieutaea** [LZGZ16]. **Halocynthia** [KOS<sup>+10</sup>, PZL<sup>+14</sup>]. **Hamilton** [Bin14, CXK16, Góm12, KWGS19, KREM14, LHW<sup>+12</sup>, LHW<sup>+15b</sup>, MLR<sup>+12</sup>, SMD<sup>+12</sup>, SM14, WCL<sup>+12</sup>]. **Hamilton-Buchanan** [Bin14, CXK16]. **hand** [SWS<sup>+16</sup>]. **handling** [GAVC16, KZJ<sup>+17</sup>]. **handy** [MPJ<sup>+15</sup>]. **haptor** [TGJCH15]. **harengus** [GJVT<sup>+11</sup>, MMBS10]. **Harry** [LFSZ18]. **harveyi** [DJQ<sup>+12</sup>, HBVB16, MKMY10, NNC<sup>+18</sup>, QWTL17, SSF<sup>+17</sup>, SNM<sup>+16</sup>, ZWY<sup>+11</sup>, ZDWH18]. **hatch** [DPD<sup>+18</sup>]. **hatched** [SBM<sup>+11</sup>]. **hatcheries** [TES16]. **hatchery** [AZSSZZ13, BRMG13, CONN10, DABO<sup>+17</sup>, FBS13, KDA<sup>+18</sup>, LF18, PDdC<sup>+14</sup>, SBP<sup>+19</sup>, WBE<sup>+17</sup>, XLZ<sup>+17</sup>]. **hatchery-bred** [XLZ<sup>+17</sup>]. **hatchery-incubated** [LF18]. **hatchery-reared** [BRMG13, CONN10, SBP<sup>+19</sup>, WBE<sup>+17</sup>]. **hatching** [VCLW16]. **Hawaiian** [WA14]. **Haworth** [BAH<sup>+16</sup>]. **Hb** [UN10]. **head** [AFTEML19, CWW<sup>+18</sup>, CHAB10, CSCCA14, Lek12, LRD<sup>+19</sup>, NNCLGC<sup>+11</sup>, STG<sup>+10</sup>]. **head-kidney** [CSCCA14]. **healing** [SSG<sup>+19</sup>]. **health** [BMGS17, HBB14, OT12, RAS<sup>+10</sup>, TMWV14]. **healthy** [AI11, DPTFC10, GCCLRP<sup>+13</sup>, HOHG13, KSM<sup>+17</sup>, OSC<sup>+14</sup>, TWNB<sup>+12</sup>]. **heart** [FMH<sup>+15</sup>, GRT12, GHW<sup>+15</sup>, WHR<sup>+18</sup>]. **hearti** [YLW<sup>+14</sup>]. **hearts** [BOH<sup>+12</sup>]. **Heat** [LRC<sup>+18</sup>, RAS<sup>+10</sup>, DJQ<sup>+12</sup>, MWRSK17, SNM<sup>+16</sup>, WBF<sup>+10</sup>, ZWY<sup>+11</sup>]. **Heat-inactivated** [LRC<sup>+18</sup>]. **heat-shock** [SNM<sup>+16</sup>, ZWY<sup>+11</sup>]. **heavily** [JMHK18]. **heavy** [QWTL17, QZZ<sup>+18b</sup>]. **Heckel** [AFTEML19, VME<sup>+19</sup>]. **held** [KJB11, Sam10, WNGS<sup>+17</sup>]. **helminth** [BGD<sup>+17</sup>, ZPM<sup>+18</sup>]. **helminth-infected** [ZPM<sup>+18</sup>]. **helminths** [DPC<sup>+10</sup>, DCG18]. **hematopoietic** [CGW<sup>+19</sup>, HSC<sup>+16</sup>, KWD<sup>+16</sup>, LGJ19, MBOC19].

**Hemiarius** [DD15]. **Hemigrammus** [ŘKH18]. **Hemigymnus** [HSGD11]. **Hemilepidotus** [GM11]. **Hemiscyllium** [JK12]. **hemocytes** [HGW<sup>+</sup>19]. **Henle** [CDM<sup>+</sup>16]. **Henneguya** [RKPG16]. **henneguyosis** [RKPG16]. **hepatic** [BSV<sup>+</sup>18, LvD18, SMJ<sup>+</sup>12]. **hepatitis** [FKB<sup>+</sup>14, KAS<sup>+</sup>18]. **hepatoblastoma** [SCZM19]. **hepatocellular** [TIK<sup>+</sup>14b]. **hepatocytes** [TIK<sup>+</sup>14b]. **hepatopancreas** [CMEV17a, CMS<sup>+</sup>17, CMEV17b]. **hepatopancreatic** [BPK<sup>+</sup>17, CCLGRM<sup>+</sup>17, DD18, DML<sup>+</sup>16, KTN<sup>+</sup>16, KYB<sup>+</sup>15, MRR<sup>+</sup>14, NPGA<sup>+</sup>19, YTL10]. **hepatopenaei** [KS19, SSV<sup>+</sup>17, TSK<sup>+</sup>19]. **Hepatospora** [DCL<sup>+</sup>17]. **herbarum** [dSRSHGá<sup>+</sup>19]. **Herbst** [MRR<sup>+</sup>14, RNM<sup>+</sup>12]. **heritage** [GVLE16]. **herpes** [SGB<sup>+</sup>16, SEM18]. **herpesviral** [LGK<sup>+</sup>14]. **Herpesvirus** [BBL<sup>+</sup>16, ASB<sup>+</sup>12, BSK<sup>+</sup>10, BMK17, BVL<sup>+</sup>18, CLC<sup>+</sup>17, CCW<sup>+</sup>15, CCT<sup>+</sup>11, DKBS17, EYF<sup>+</sup>19, FBS13, FBAS16, FCC<sup>+</sup>13, FSC<sup>+</sup>16, GVLE16, GSEM13, GAEK<sup>+</sup>14, HDC18, HPY<sup>+</sup>13, IFF<sup>+</sup>15, KYK<sup>+</sup>12, KKOY19, KJW<sup>+</sup>17, KAST17, LLL<sup>+</sup>13, MLH<sup>+</sup>15, MSS<sup>+</sup>17a, MKY<sup>+</sup>15, MTA<sup>+</sup>15, MTAB15, MBT<sup>+</sup>17, NSS<sup>+</sup>17, PTM<sup>+</sup>19, PFP<sup>+</sup>13, RHZA<sup>+</sup>16, RBH<sup>+</sup>17, SMC<sup>+</sup>11, TDJ<sup>+</sup>10, TWJP10, TKS<sup>+</sup>18, WXL16, WSX<sup>+</sup>18, WIC<sup>+</sup>19, YkSKY13, vBVL<sup>+</sup>16, MFES18, NJK<sup>+</sup>17, GM10]. **herpesvirus-1** [KYK<sup>+</sup>12, MFES18]. **herpesvirus-2** [NSS<sup>+</sup>17, GM10]. **herpesvirus-3** [GAEK<sup>+</sup>14, MKY<sup>+</sup>15]. **herring** [GJVT<sup>+</sup>11, GGW<sup>+</sup>11, HLL<sup>+</sup>12, HCEH16, HGH<sup>+</sup>16, MMBS10, WKW<sup>+</sup>11]. **Heterogeneity** [BGCKF12, LWWS14]. **heterologous** [MBS<sup>+</sup>19a, SLKE10]. **heterophil** [RSR<sup>+</sup>18]. **Heterophyidae** [BCM<sup>+</sup>17]. **Heterosporis** [KSAB<sup>+</sup>14]. **Hetrick** [Cip11]. **Hexacanal** [BCJ13]. **Hexamitiasis** [OP14]. **Hfq** [MFHHG18]. **Hfq-sRNA-chaperone** [MFHHG18]. **HI** [RGD<sup>+</sup>12]. **HI-610** [RGD<sup>+</sup>12]. **hidden** [RBR19]. **High** [KKK<sup>+</sup>18, RNM<sup>+</sup>12, TCFáS19, BHT<sup>+</sup>17, BLF<sup>+</sup>16, BCBS<sup>+</sup>13, DAB<sup>+</sup>12, HGH<sup>+</sup>18, HMW11, LITCAH19b, LZZN10, NFF<sup>+</sup>17, OFA11, VCN<sup>+</sup>10, VPCM19, WMD<sup>+</sup>18, WZA10, WKW<sup>+</sup>11, ZDWH18]. **high-** [BLF<sup>+</sup>16, WZA10]. **high-grade** [VPCM19]. **High-throughput** [TCFáS19, BHT<sup>+</sup>17, LITCAH19b]. **higher** [FHFF15]. **highly** [GCNB18, KF10b, LQL<sup>+</sup>10, MAC<sup>+</sup>15, YGL<sup>+</sup>18]. **Hilgendorf** [HKK<sup>+</sup>11a]. **Hippocampus** [BQP12, BCW<sup>+</sup>15, DCV<sup>+</sup>14, DSMC17, LYD<sup>+</sup>15, LKT<sup>+</sup>13, OBR<sup>+</sup>14, QWTL17, SBHC18, WZQ<sup>+</sup>16]. **Hippoglossus** [BBP18, ONA10, RSH11]. **hirame** [BMMP<sup>+</sup>14, HMP<sup>+</sup>12, SDJH16, YMH<sup>+</sup>11]. **histidine** [FMA<sup>+</sup>19, SFR<sup>+</sup>17]. **Histochemical** [BDM<sup>+</sup>18, DMD<sup>+</sup>17]. **histochemistry** [DPC<sup>+</sup>10, MBD16]. **Histocompatibility** [PdLC19, CPB<sup>+</sup>15]. **histologic** [CSA<sup>+</sup>15]. **Histological** [ADR11, GFM<sup>+</sup>16, Góm12, LTC<sup>+</sup>14, BCBS<sup>+</sup>13, DPTCF10, HKF<sup>+</sup>16, PPK<sup>+</sup>13, PMBM13, RAM<sup>+</sup>17, SVV<sup>+</sup>17, TPD<sup>+</sup>19]. **Histology** [ECP<sup>+</sup>10, LvD18, CMEV17b, JBO<sup>+</sup>15]. **Histone** [WCL<sup>+</sup>19]. **Histone-like** [WCL<sup>+</sup>19]. **Histopathological** [DCG18, DAO19, MKMY10, MAOS<sup>+</sup>18, STS<sup>+</sup>15, ABT<sup>+</sup>14, MCSM17, MPM16, NB10, PMP<sup>+</sup>18, QXW14, RHZA<sup>+</sup>16, RHST<sup>+</sup>16, RHSM<sup>+</sup>18b].



**Histopathology**

[JMHK18, ONA10, TGJCH15, ATM<sup>+10</sup>, MBD16, SDZN19, YLW<sup>+14</sup>]. **historical** [WMM17]. **history** [ARFG13]. **histrix** [MdOO16]. **HN48** [LLL<sup>+18a</sup>]. **Hofer** [MKKM15]. **Hoffman** [LRB<sup>+17</sup>]. **Holbrook** [ALG15]. **Hole** [AFTEML19]. **Hole-in-the-head** [AFTEML19]. **Holmberg** [VGI<sup>+16</sup>]. **Holmes** [SPTDEE<sup>+15</sup>]. **Holocene** [ARL<sup>+17</sup>]. **Holocephali** [DRdS<sup>+10</sup>]. **Homarus** [CG11, SQC<sup>+14</sup>]. **homeostasis** [TvWO<sup>+16</sup>]. **homogenate** [SG12]. **homogeneity** [COB<sup>+16</sup>]. **hook** [ABM<sup>+15</sup>]. **hooking** [DLLB<sup>+18</sup>]. **Horizontal** [NRF<sup>+18</sup>, KS19, SHV<sup>+16</sup>]. **horizontally** [WNGS<sup>+17</sup>]. **hormonal** [GFM<sup>+16</sup>]. **hormones** [DSSB19]. **horn** [RHST<sup>+16</sup>, RhMM<sup>+15</sup>, RhMV<sup>+15</sup>]. **horse** [BCW<sup>+15</sup>, ONGQ<sup>+14</sup>, RGMGG<sup>+18</sup>]. **Host** [ADMF15, ABC<sup>+10</sup>, JFWH19, BCJ13, BLP10, EPCSBP18, FSB18a, FYO<sup>+11</sup>, GSEM13, GAEK<sup>+14</sup>, GGM14, IBFL19, JPG<sup>+19</sup>, KOB<sup>+17</sup>, KF10a, LHW<sup>+15a</sup>, LRB<sup>+17</sup>, MMS<sup>+16</sup>, MWS17, OWM<sup>+17</sup>, PJZB19, RGD<sup>+12</sup>, SPP<sup>+18</sup>, SPTDEE<sup>+15</sup>, SP15]. **host-associated** [KOB<sup>+17</sup>]. **host-related** [FSB18a]. **host-seeking** [OWM<sup>+17</sup>]. **Hosts** [SMKBP17, GRG<sup>+16</sup>, HB12, KHG<sup>+17</sup>, MLH<sup>+15</sup>, ZYW<sup>+10</sup>]. **hounds** [MS16]. **hoyamushi** [PZL<sup>+14</sup>]. **HPR0** [GL18]. **HPV** [YTL10]. **Hsieh** [SS17]. **HSP70** [PHW<sup>+16</sup>, SRB12]. **human** [VME<sup>+19</sup>]. **humic** [YFA<sup>+17</sup>]. **humic-rich** [YFA<sup>+17</sup>]. **humoral** [CRS<sup>+13</sup>]. **humphead** [HCW<sup>+16</sup>, ZWY<sup>+11</sup>]. **Hungary** [ABVS18, KPKP10]. **Huso** [RHSM<sup>+18b</sup>]. **hutCD** [OJRL10]. **hybrid** [AZSSZZ13, BVG<sup>+10</sup>, FCS<sup>+18</sup>, ISCF<sup>+19</sup>, LTC<sup>+14</sup>, RHST<sup>+16</sup>, RHSM<sup>+18b</sup>, RhMM<sup>+15</sup>, RhMV<sup>+15</sup>, SSF<sup>+17</sup>, SL15, SRT<sup>+14</sup>, ZDWH18]. **hybridization** [ACSB<sup>+19</sup>, CPEH15, DXX<sup>+15</sup>, DCL<sup>+17</sup>, LZZN10, MTA<sup>+15</sup>]. **hybrids** [BSK<sup>+10</sup>, KHG<sup>+17</sup>]. **hydrodomous** [MRR<sup>+14</sup>, RNM<sup>+12</sup>]. **Hydrogen** [FVAVMGE18, ACN12, HKBD15a, HKBD15b, MGM<sup>+18</sup>]. **hydrolysates** [SJDC<sup>+13</sup>]. **hydrophila** [AA10, BLFRCQ10, BE19, ÇOÇ<sup>+16</sup>, CTK<sup>+10</sup>, DBS12, EDP<sup>+17</sup>, JAR<sup>+11</sup>, JSAH<sup>+18</sup>, KEY<sup>+15</sup>, LPA<sup>+10</sup>, LLZW14, LCR<sup>+10</sup>, LHW<sup>+15b</sup>, NDA10, OSAA18, SJSA<sup>+14</sup>, WMD<sup>+18</sup>, WYZ<sup>+19</sup>, YK12, ZCJ<sup>+18</sup>]. **hydroxybutyrate** [HBH<sup>+19</sup>, SCS<sup>+12</sup>]. **hymenocallidicola** [ŘKH18]. **Hypanus** [SCZM19]. **hyperinflation** [BCG<sup>+17</sup>]. **hyperlipidaemia** [CHF<sup>+12</sup>]. **hyperplasia** [ONA10]. **hyperplastic** [BHW<sup>+11</sup>]. **hyperthermia** [WXWD15]. **hyphal** [VDHV<sup>+16</sup>]. **Hyphessobrycon** [Lek12]. **hypochlorite** [HHO14]. **hypodermal** [YHY<sup>+16</sup>]. **hypophthalmus** [BAD<sup>+12</sup>, CTK<sup>+10</sup>, SMV<sup>+14</sup>, SZZSFN<sup>+14</sup>, SPV<sup>+18</sup>, VST<sup>+19</sup>]. **hypoxic** [EMA17]. **Hysterothyliacium** [MGH<sup>+14</sup>, RGMGG<sup>+18</sup>]. **hystrix** [SBK<sup>+13</sup>].

**I-based** [TCFáS19]. **ice** [DJR<sup>+19</sup>]. **ice-structuring** [DJR<sup>+19</sup>]. **Iceland** [GVC<sup>+19</sup>, áKÁGA16]. **Ichthyobacterium** [MFS<sup>+17</sup>]. **Ichthyobodo** [CKJ<sup>+14</sup>, MUM<sup>+19</sup>]. **ichthyoenteri** [BT14]. **ichthyofauna** [RAM<sup>+18</sup>]. **ichthyophoniasis** [HCEH16]. **Ichthyophonus**

[AJLC<sup>+</sup>16, CPEH15, HGH<sup>+</sup>16, WMF14]. **Ichthyophonus-induced** [AJLC<sup>+</sup>16]. **Ichthyophonus-infected** [WMF14]. **ichthyophthiriasis** [AMRHM18, VGI<sup>+</sup>16]. **Ichthyophthirius** [AJLK<sup>+</sup>18, AMRHM18, BSD<sup>+</sup>18a, CKvGJB17, vGJHS<sup>+</sup>11, vGJKR<sup>+</sup>17, XKBC12, XZZ16, YYW<sup>+</sup>14]. **IcHV** [GM10]. **IcHV-2** [GM10]. **icmF** [WYZ<sup>+</sup>19]. **ictaluri** [BAD<sup>+</sup>12, CTK<sup>+</sup>10, GRG<sup>+</sup>16, KMGK<sup>+</sup>18, PRWG17, PRSK10, PMK12, SRT<sup>+</sup>14, VST<sup>+</sup>19, YK13]. **Ictalurid** [GM10]. **Ictalurus** [BBF<sup>+</sup>15, LTC<sup>+</sup>14, MP18, PRSK10, RKPG16, XKBC12, YSK13, YK13]. **idella** [GCWB11, LLL<sup>+</sup>12, YYW<sup>+</sup>14]. **idellus** [LXHL11]. **identical** [MNM<sup>+</sup>18]. **Identification** [BGC<sup>+</sup>17, CHH<sup>+</sup>14, CCW<sup>+</sup>15, CXW<sup>+</sup>19, CHF<sup>+</sup>12, DBM<sup>+</sup>14, HXZ<sup>+</sup>16, HHX<sup>+</sup>15, LLC<sup>+</sup>11, LCV<sup>+</sup>17, LCC<sup>+</sup>15, LLL<sup>+</sup>12, LMM<sup>+</sup>16, MFHHG18, PKLH19, PSBG<sup>+</sup>11, SRSF10, TCS19, WCL<sup>+</sup>19, WNCR12, YGL<sup>+</sup>18, ZWG<sup>+</sup>17, ZWL<sup>+</sup>16, BLL<sup>+</sup>17, dJDAVRGM<sup>+</sup>18, GLW<sup>+</sup>18, IGLG<sup>+</sup>17, JSJR<sup>+</sup>18, KPSP<sup>+</sup>19, LDA<sup>+</sup>19, LML<sup>+</sup>13, LYL<sup>+</sup>18, LFH<sup>+</sup>11, OBR<sup>+</sup>14, OGI<sup>+</sup>18, PSCFB<sup>+</sup>18, SSF<sup>+</sup>17, SMC<sup>+</sup>11, TCFaS19, ZSZF16, ZLX<sup>+</sup>19, ZFZ<sup>+</sup>11]. **identifies** [GSEM13, GLK<sup>+</sup>16, LSA<sup>+</sup>15, WDM<sup>+</sup>15, WMM<sup>+</sup>16]. **identifying** [BTN<sup>+</sup>18, JSJR<sup>+</sup>19]. **identity** [LDEH17]. **iELISA** [ZWG<sup>+</sup>18]. **IgD** [AJLC<sup>+</sup>16]. **IgD-** [AJLC<sup>+</sup>16]. **IgM** [AJLC<sup>+</sup>16, vGJHS<sup>+</sup>11]. **IgM-positive** [AJLC<sup>+</sup>16]. **IgT** [AJLC<sup>+</sup>16, vGJHS<sup>+</sup>11]. **IgT-** [AJLC<sup>+</sup>16]. **IgY** [NPGA<sup>+</sup>19]. **IHHNV** [YHY<sup>+</sup>16]. **IHN** [HAS<sup>+</sup>19]. **IHNV** [CGW<sup>+</sup>19, HSC<sup>+</sup>16, JSK<sup>+</sup>10, PMH<sup>+</sup>11, PFJ<sup>+</sup>10]. **II** [BMA13, CPB<sup>+</sup>15, GJVT<sup>+</sup>11, LLZW14, PMH<sup>+</sup>11, YYW<sup>+</sup>14, ZWG<sup>+</sup>18]. **II-DAB** [YYW<sup>+</sup>14]. **III** [EAN<sup>+</sup>18]. **IIIA** [SWWN<sup>+</sup>16]. **illegally** [ARFG13]. **Image** [ESV<sup>+</sup>19a, FSB18b, GGMG18a, GCM<sup>+</sup>18a, LITCAH19a, LLL<sup>+</sup>18b, MTLP<sup>+</sup>18a, PWHW18a, PLC<sup>+</sup>19a, QZZ<sup>+</sup>18a, VSDS<sup>+</sup>19b, CMEV17a, CMS<sup>+</sup>17, CMEV17b]. **imaging** [BKD17, BWM<sup>+</sup>13, FDST16, RHSM<sup>+</sup>18b, RHSM<sup>+</sup>18a]. **imbalance** [AFTEML19]. **Immersion** [MAC<sup>+</sup>15, GOM<sup>+</sup>19, JAJC<sup>+</sup>18, MBS<sup>+</sup>19a, MRN<sup>+</sup>19, MSCH14, PBM<sup>+</sup>15, SPLV<sup>+</sup>15, SCR<sup>+</sup>15, TTL<sup>+</sup>16]. **immersion-bath** [SCR<sup>+</sup>15]. **Immune** [HZX<sup>+</sup>13, LHW<sup>+</sup>12, TMM<sup>+</sup>15, AJLC<sup>+</sup>16, BSD<sup>+</sup>18b, BSB<sup>+</sup>18, BAMYAH19, Buc12, CLGP15, CCHL13, CKvGJB17, CCME16, CRS<sup>+</sup>13, CSCCA14, DMB<sup>+</sup>16, HKBD15b, HXZ<sup>+</sup>16, HMW11, JAJC<sup>+</sup>18, JMF<sup>+</sup>18, JKH<sup>+</sup>17, vGJKR<sup>+</sup>17, JJS<sup>+</sup>12, LMC<sup>+</sup>16, LSC<sup>+</sup>14, LMM<sup>+</sup>15, LMM<sup>+</sup>16, LHW<sup>+</sup>15b, NNC<sup>+</sup>18, PHW<sup>+</sup>16, RSB13, RBAT<sup>+</sup>17, RCGGM15, RSPA<sup>+</sup>18, SWD<sup>+</sup>14, XKB12, ZWL<sup>+</sup>14]. **immune-related** [JJS<sup>+</sup>12]. **immune-relevant** [SWD<sup>+</sup>14]. **Immunity** [CGW<sup>+</sup>19, CR12, JJV<sup>+</sup>15, LKS<sup>+</sup>13, SWM<sup>+</sup>15]. **Immunization** [PLCC11, OTN<sup>+</sup>12]. **immunizes** [NPGA<sup>+</sup>19]. **immunoassay** [PSK<sup>+</sup>13, SSHEM11]. **immunoblotting** [LLL<sup>+</sup>12]. **immunochromatographic** [LXX<sup>+</sup>17]. **immunocytochemistry** [ECP<sup>+</sup>10]. **immunoenzymatic** [NOST<sup>+</sup>16]. **immunogenic** [KREM14, LLC<sup>+</sup>11, LLL<sup>+</sup>12, NMIY14]. **immunoglobulin** [ESV<sup>+</sup>19b, LSA<sup>+</sup>15, NPGA<sup>+</sup>19]. **Immunohistochemical**

[ERÁpSB14, FBL<sup>+</sup>14, YDO<sup>+</sup>16, ZHFC11, AOAH13, ABT<sup>+</sup>14, BDM<sup>+</sup>18, CKJ<sup>+</sup>14, RHSM<sup>+</sup>18a, RAM<sup>+</sup>17, SMS<sup>+</sup>19]. **immunohistochemistry** [GCM<sup>+</sup>18b, MBD16]. **immunological** [EAM<sup>+</sup>13, FMT<sup>+</sup>14, SPCR<sup>+</sup>19, SSSP18, WCW16a, YSHG18]. **Immunomodulatory** [ESA<sup>+</sup>10, WXWD15]. **Immunophysiology** [SAD<sup>+</sup>12]. **immunoproteomic** [CRBLC<sup>+</sup>17]. **immunosorbent** [BWZ<sup>+</sup>17, NMIIY14]. **immunostimulants** [NFA15]. **Immunostimulation** [IPW<sup>+</sup>13]. **immunostimulatory** [PPI<sup>+</sup>13]. **Impact** [AJLK<sup>+</sup>18, BPK<sup>+</sup>17, DD18, JCN<sup>+</sup>13, JCN<sup>+</sup>14, STG<sup>+</sup>10, SFU<sup>+</sup>13, DTF<sup>+</sup>16, GMC<sup>+</sup>16b, STES14, SSL18, TJA<sup>+</sup>13, KRFT14]. **Impacts** [BA14, BGRB14]. **impair** [RHB<sup>+</sup>15]. **Impairment** [BSV<sup>+</sup>18]. **impairs** [LP17]. **impedes** [BMD<sup>+</sup>14]. **implementation** [BMBS12]. **implicated** [BHF13]. **Implications** [DMK<sup>+</sup>19, RBL<sup>+</sup>11, SSK17]. **importance** [KPSP<sup>+</sup>19, KNN19]. **important** [DS10, WLX<sup>+</sup>10]. **Imported** [RHBMM13, GJK<sup>+</sup>11, NSC<sup>+</sup>15, PRWG17, RKK<sup>+</sup>19, SBD11]. **imports** [WTM14]. **impoundments** [HWO<sup>+</sup>17]. **improved** [GCM<sup>+</sup>18b, SKN<sup>+</sup>16, VST<sup>+</sup>19]. **Improvement** [HAS<sup>+</sup>19, TJR<sup>+</sup>18]. **improves** [DMB<sup>+</sup>19, FMM<sup>+</sup>19]. **in-vitro** [SHS14]. **Inactivated** [WHR<sup>+</sup>18, LRC<sup>+</sup>18, MMNL14, RPMRLJ<sup>+</sup>19, SGB<sup>+</sup>16]. **Inactivation** [YkSKY13, DSA<sup>+</sup>12, DAB<sup>+</sup>12, HPAL10, MoSMS18, NCNB18]. **inaequilabiatus** [DMD<sup>+</sup>17]. **Incidence** [NB11]. **including** [SFF<sup>+</sup>17]. **inclusion** [PFC<sup>+</sup>13]. **Incomati** [DAO19]. **increase** [FMH<sup>+</sup>15, SJK<sup>+</sup>14]. **Increased** [DMB<sup>+</sup>19, CKTT10, FHFF15, NYRS12, OBFR12]. **increases** [CCHL13]. **Increasing** [FCJH19, USM17]. **incubated** [LF18]. **incubation** [FFP<sup>+</sup>14, FHFF15, SK15]. **independent** [Sla14]. **India** [GJM<sup>+</sup>15, GMP<sup>+</sup>11, HVM<sup>+</sup>17, RDN<sup>+</sup>12, SPP<sup>+</sup>18, SSV<sup>+</sup>17, SM14, TSK<sup>+</sup>19]. **Indian** [BNC<sup>+</sup>11, Góm12, GMP<sup>+</sup>11, JGI<sup>+</sup>10, NRMS14, SVM<sup>+</sup>18]. **indica** [AA10]. **indicate** [CKJ<sup>+</sup>14, KZJ<sup>+</sup>17]. **indicates** [MMBS10]. **Indications** [JNS<sup>+</sup>19]. **indicators** [PSZ<sup>+</sup>14]. **indices** [KPM<sup>+</sup>11, LFP<sup>+</sup>11a, LFP<sup>+</sup>11b]. **indicus** [NRMS14]. **Indies** [HHM<sup>+</sup>14]. **indirect** [ZWG<sup>+</sup>18]. **individual** [DIVC16, HWM<sup>+</sup>13]. **Indo** [CDM<sup>+</sup>13]. **Indo-Pacific** [CDM<sup>+</sup>13]. **Indonesia** [SMC<sup>+</sup>11]. **indoor** [SBK<sup>+</sup>15]. **induce** [CZB<sup>+</sup>11, LPA<sup>+</sup>10, OBFR12, SWM<sup>+</sup>15]. **induced** [ACN12, AJLC<sup>+</sup>16, BRMG13, CGW<sup>+</sup>19, DAO19, FLCC<sup>+</sup>14, Góm12, GHB<sup>+</sup>11, JCN<sup>+</sup>13, JCN<sup>+</sup>14, KRFT14, MMD<sup>+</sup>12, MLEM16, MGF17, XQS<sup>+</sup>15, ZZQ<sup>+</sup>19]. **induces** [CLGP15, CXW<sup>+</sup>19, ESV<sup>+</sup>19b, LF16, SON<sup>+</sup>18]. **Induction** [DJQ<sup>+</sup>12, HY16, FSV<sup>+</sup>18, MMS<sup>+</sup>16, WBF<sup>+</sup>10]. **industry** [VJWC<sup>+</sup>18]. **infect** [PST<sup>+</sup>16]. **infected** [AOAH13, BSV<sup>+</sup>18, BSSB18, BSD<sup>+</sup>18b, BSD<sup>+</sup>18c, BSB<sup>+</sup>18, BSD<sup>+</sup>18a, BLFRCQ10, BRB<sup>+</sup>12, Bin14, BCJ13, BTC<sup>+</sup>17, CLC<sup>+</sup>17, DCG18, DPADO16, FCM<sup>+</sup>19, FFLC17, GIW<sup>+</sup>11, GCM<sup>+</sup>18b, GMN12, HDWM15, HGB<sup>+</sup>11, HZX<sup>+</sup>13, JML19, JJV<sup>+</sup>15, KSM<sup>+</sup>17, KAST17, LRD<sup>+</sup>19, LMM<sup>+</sup>15, LMM<sup>+</sup>16, MKI<sup>+</sup>15, MKMY10, MTA<sup>+</sup>15, MTAB15, NB10, NHM<sup>+</sup>10, PB18, PRSK10, PJU<sup>+</sup>13, SP15, SWD<sup>+</sup>14, SFL<sup>+</sup>16, TJB<sup>+</sup>15, UMMS17, VTM<sup>+</sup>14, WMF14,

ZWY<sup>+11</sup>, ZPM<sup>+18</sup>, SSV<sup>+17</sup>]. **infecting**  
 [BLL<sup>+17</sup>, BNS13, FDL<sup>+17</sup>, IBFL19, LQL<sup>+10</sup>, LZGZ16, LJHG14, OMO<sup>+15</sup>,  
 RPGCIG17, SAS<sup>+19</sup>, SGQ<sup>+15</sup>, TB12, USM17, WMD<sup>+18</sup>, WCW<sup>+16b</sup>].  
**Infection** [ARFG13, BKD17, BLP10, CGAS19, DDBC<sup>+15</sup>, NNCLGC<sup>+11</sup>,  
 ZWLG10, ASA10, AMAR18, AHHR<sup>+10</sup>, AHPR<sup>+16</sup>, ATP<sup>+16</sup>, AZSI<sup>+12</sup>,  
 ABT<sup>+14</sup>, AA10, BSPS<sup>+18</sup>, BMD<sup>+14</sup>, BBF<sup>+15</sup>, BLdA<sup>+18</sup>, BAMYAH19,  
 BE19, BHO<sup>+19</sup>, BFFA<sup>+12</sup>, BDB<sup>+18</sup>, BVG<sup>+10</sup>, BVT<sup>+18</sup>, CBLN13, CDM<sup>+13</sup>,  
 CBC<sup>+13</sup>, CHWM<sup>+19</sup>, CAJD<sup>+18</sup>, CKvGJB17, CG11, CB13, CDD<sup>+18</sup>,  
 CCM<sup>+11</sup>, CCMA<sup>+17</sup>, DBS12, DIH<sup>+16</sup>, DLP<sup>+13</sup>, DMB<sup>+16</sup>, DMD<sup>+17</sup>,  
 DJR<sup>+19</sup>, DCZ<sup>+17</sup>, EDP<sup>+17</sup>, ESA<sup>+10</sup>, ECP<sup>+10</sup>, FBAS16, FSV<sup>+14</sup>, FSK<sup>+19</sup>,  
 FBVC16, FCC<sup>+13</sup>, FSO<sup>+10</sup>, FCS<sup>+18</sup>, GSEM13, GRP<sup>+15</sup>, GDN<sup>+16</sup>,  
 HKK<sup>+11a</sup>, HPY<sup>+13</sup>, ICVV16, JKL<sup>+13</sup>, JHW17, JFWH19, JMF<sup>+18</sup>,  
 JKH<sup>+17</sup>, KKK15, KSS<sup>+15</sup>, KRd<sup>+17</sup>, KPK<sup>+18</sup>, KHC<sup>+18</sup>, KLD<sup>+18</sup>,  
 KKOY19, KBE<sup>+14</sup>, KJW<sup>+17</sup>, KDA<sup>+18</sup>, KKKA17, KDP<sup>+17</sup>, LGK<sup>+14</sup>,  
 LLG<sup>+15</sup>, LP17, LMG<sup>+19</sup>, LC17, LCOZ10, LL12, LLH<sup>+14b</sup>, LXL<sup>+18</sup>, LGJ19,  
 LCR<sup>+10</sup>, LSA<sup>+15</sup>, LYKN18, LHW<sup>+15b</sup>, LXZ<sup>+19</sup>, MBOC19, MSC<sup>+17</sup>,  
 MLRS<sup>+17</sup>, MFES18, MSR<sup>+10</sup>, MKH<sup>+11</sup>]. **infection**  
 [MUM<sup>+19</sup>, MTA<sup>+15</sup>, MCW<sup>+18</sup>, MKKM15, NOV<sup>+11</sup>, NYRS12, OJRL10,  
 PBC15, PRWG17, PFP<sup>+13</sup>, PYSS19, PPI<sup>+13</sup>, PPF<sup>+12</sup>, PG16, PMK12,  
 PFC<sup>+13</sup>, PMPG<sup>+16</sup>, QWTL17, QZZ<sup>+18b</sup>, RHS<sup>+12</sup>, ŘKH17, RBM<sup>+16</sup>,  
 RFA<sup>+14</sup>, RSR<sup>+18</sup>, RPM<sup>+19</sup>, SHKF16, SZM<sup>+15</sup>, SBP<sup>+19</sup>, SSV<sup>+10</sup>, SGB<sup>+16</sup>,  
 SHJ<sup>+12</sup>, SDJH16, SPLV<sup>+15</sup>, SS17, SSJ<sup>+19</sup>, SNM<sup>+16</sup>, SAD<sup>+12</sup>, SWWN<sup>+16</sup>,  
 SODB16, SOA<sup>+18</sup>, SVY<sup>+14</sup>, SON<sup>+18</sup>, SRT<sup>+14</sup>, SNK<sup>+19</sup>, TIK<sup>+14a</sup>, TTL<sup>+16</sup>,  
 TDS<sup>+19</sup>, VDMJ<sup>+13</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, WBF<sup>+10</sup>, WLX<sup>+10</sup>, WKW<sup>+11</sup>,  
 WIC<sup>+19</sup>, Wen16, WFH<sup>+18</sup>, WXWD15, XJL<sup>+19</sup>, YFA<sup>+17</sup>, YDO<sup>+16</sup>, YK13,  
 YYW<sup>+14</sup>, YLX<sup>+19b</sup>, ZNHC11a, ZNHC11b, ZKL<sup>+19</sup>, ZLN<sup>+17</sup>]. **Infections**  
 [LHW<sup>+15a</sup>, STF<sup>+15</sup>, SBM<sup>+11</sup>, BFJ11, CMH<sup>+17</sup>, CLS<sup>+15</sup>, DS10, DYML<sup>+18</sup>,  
 FYO<sup>+11</sup>, GFW<sup>+10</sup>, GRF14, HCL<sup>+14</sup>, JQK14, JZK<sup>+14</sup>, JJSJ15, KFK<sup>+16</sup>,  
 LML12, LST<sup>+12</sup>, LPCC12, LLL<sup>+18a</sup>, NMIY14, RAM<sup>+19</sup>, RSH11, SWS<sup>+16</sup>,  
 SVV<sup>+17</sup>, TSK<sup>+19</sup>, UMMS17, WMF14, WBD10a, WNAJ<sup>+16</sup>, ZHFC11,  
 PTM<sup>+19</sup>]. **Infectious** [ADF14, BAH<sup>+18</sup>, CCCTA<sup>+14</sup>, MNM<sup>+18</sup>, MMNL14,  
 RWTB17, TVK<sup>+19</sup>, ADMF15, ATM<sup>+10</sup>, ASHZ<sup>+12</sup>, AOAH13, BMK17,  
 CGW<sup>+19</sup>, DSJA18, EYF<sup>+19</sup>, ECP<sup>+10</sup>, EBM<sup>+18</sup>, EEMCEGSP16, FE11,  
 GL18, GTT<sup>+17</sup>, GCS<sup>+18</sup>, HSC<sup>+16</sup>, HWM<sup>+13</sup>, HVM<sup>+17</sup>, IOO15, JDRM17,  
 JOF<sup>+19</sup>, JSK<sup>+10</sup>, JMS13, JJSJ15, KDA<sup>+18</sup>, KBD13, KWD<sup>+16</sup>, LTG<sup>+18</sup>,  
 LTM<sup>+19</sup>, LLLG18, LASRA<sup>+19</sup>, LGJ19, LJGRI<sup>+10</sup>, LVADB17, LRMN17,  
 MBOC19, MMWK19, MAC<sup>+15</sup>, MR11, MTHB13, MNM<sup>+19</sup>, MMH10, NB10,  
 OBF12, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PBM<sup>+15</sup>, RMSH09, SJDC<sup>+13</sup>, SWD<sup>+14</sup>,  
 SG12, SSO<sup>+14</sup>, TIK<sup>+14a</sup>, VDMJ<sup>+13</sup>, VCOD17, YLSW14, YHY<sup>+16</sup>].  
**infective** [FSB18a, GGGM14]. **infective-stage** [FSB18a]. **Infectivity**  
 [CGCAH12, SCR<sup>+15</sup>, FE11, GTH11, OKS<sup>+13</sup>, SG12]. **infects**  
 [RAVC18, VSDS<sup>+19a</sup>]. **inference** [RRC<sup>+17</sup>]. **inferred**  
 [FMA<sup>+19</sup>, MFS<sup>+17</sup>, STIG17]. **infestation**  
 [FDST16, GAVC16, HSHC<sup>+16</sup>, MGM<sup>+18</sup>, SFU<sup>+13</sup>, VMBGE17].

**infestations**

[GCGR13, HLHS11, JCN<sup>+13</sup>, JCN<sup>+14</sup>, KRFT14, PBBG19, SMR10, TAQ<sup>+10</sup>].

**infesting** [YB17]. **inflammation**

[BKG<sup>+18</sup>, GRT12, MLF<sup>+10</sup>, NHM<sup>+10</sup>, WHR<sup>+18</sup>]. **inflammatory** [BSB<sup>+18</sup>, BSD<sup>+18a</sup>, BSD<sup>+18d</sup>, ESV<sup>+19b</sup>, GIW<sup>+11</sup>, MDF<sup>+17</sup>, RCGGM15, SJSA<sup>+14</sup>].

**Influence** [HH13a, JSAB<sup>+19</sup>, SLPB18, SSL18, WBF<sup>+10</sup>, BSD<sup>+18a</sup>, DIVC16, IBFL19, MPS<sup>+18</sup>]. **influenced** [BSPS<sup>+18</sup>]. **influences**

[CRBLC<sup>+17</sup>, JMF<sup>+18</sup>]. **influencing** [CHAB10, TES16]. **Information**

[Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, AGFG19, MJ17].

**informing** [SMR16, SDI<sup>+18</sup>]. **infrared** [WNCR12]. **Ingestion** [SNM<sup>+16</sup>].

**inhabiting** [FDL<sup>+17</sup>]. **Inhibition**

[GSBEM15, HMP<sup>+12</sup>, BSD<sup>+18c</sup>, DRG<sup>+17</sup>, HLP<sup>+16</sup>]. **inhibitors**

[AS17, ASS19, UKS<sup>+18</sup>]. **Inhibitory**

[SBW11, BLFC12, PSBG<sup>+11</sup>, YVM<sup>+14</sup>, YLX<sup>+19b</sup>]. **inhibits**

[BSV<sup>+18</sup>, TKS<sup>+18</sup>]. **inaiae** [BYAS<sup>+19</sup>, CZL<sup>+19</sup>, EPA<sup>+10</sup>, HJOK11, KNN19, OGI<sup>+18</sup>, SLKE10, WZL13, ZFZ<sup>+11</sup>]. **initial** [SZM<sup>+15</sup>]. **injectable**

[HJN<sup>+19</sup>]. **injection** [CMH<sup>+17</sup>, ELI<sup>+17</sup>, GSS<sup>+10</sup>, GMC<sup>+16b</sup>, MID<sup>+19b</sup>, PYSS19, RPMRLJ<sup>+19</sup>, SPLV<sup>+15</sup>]. **injury** [FBK<sup>+16</sup>]. **inkyongense**

[dASLS<sup>+19</sup>]. **innate** [JKH<sup>+17</sup>, LKS<sup>+13</sup>, STS<sup>+15</sup>, YSHG18]. **innesi**

[SMS<sup>+19</sup>]. **inoculation** [SDR<sup>+15</sup>]. **inorganic** [MMNL14]. **inornatus**

[SBW<sup>+18</sup>]. **insight** [dALF<sup>+17</sup>]. **Insights** [COB<sup>+16</sup>, SP15]. **integrate**

[JMD<sup>+18</sup>]. **integrity** [FMM<sup>+19</sup>, FE11]. **integron** [NB11]. **intensity**

[BND<sup>+17</sup>, BWP<sup>+19b</sup>]. **Intensive** [TAQ<sup>+10</sup>, JR19, LLH<sup>+14b</sup>, STS<sup>+15</sup>].

**intensively** [MP18, SKPS16, SMS<sup>+18</sup>]. **interacting** [SRSF10]. **interaction**

[GIW<sup>+11</sup>, IBFL19, MKI<sup>+15</sup>, RGD<sup>+12</sup>, SP15, WNMK<sup>+16</sup>]. **Interactions**

[LMC<sup>+16</sup>, GAEK<sup>+14</sup>, JFWH19, Tre12]. **interactome** [FMA<sup>+19</sup>]. **interface**

[BCJ13]. **interferes** [VDH19]. **interferons** [NSE<sup>+17</sup>]. **intergenic** [TAC15].

**interleukin** [CKTT10]. **interleukin-1** [CKTT10]. **internal**

[DPMK12, LCZ<sup>+18</sup>]. **internalization** [TDT<sup>+16</sup>]. **internalize** [LASRA<sup>+19</sup>].

**interpretation** [GVB<sup>+17a</sup>]. **intestinal**

[BGD<sup>+17</sup>, BWS<sup>+18</sup>, DPC<sup>+10</sup>, DMB<sup>+16</sup>, DAO19, ERÁpSB14, JSAH<sup>+18</sup>, LFL19, MBB12, MKK<sup>+11</sup>, SJSA<sup>+14</sup>, VMBGIC19]. **intestine**

[BKG<sup>+18</sup>, BDM<sup>+18</sup>]. **intestines** [YkSKY13]. **Intimal** [DRdS<sup>+10</sup>]. **intra**

[GSS<sup>+10</sup>]. **intra-peritoneal** [GSS<sup>+10</sup>]. **intracellular**

[AHAMR<sup>+19</sup>, MB17, YVM<sup>+14</sup>]. **intracoelomic** [PYSS19]. **Intragastric**

[PYSS19]. **Intragenomic** [LWWS14]. **Intramuscular**

[ESV<sup>+19b</sup>, ELI<sup>+17</sup>, FGJ<sup>+10</sup>]. **intranuclear** [ACSB<sup>+19</sup>, XLZ<sup>+17</sup>].

**intraperitoneal**

[ELI<sup>+17</sup>, LWJ<sup>+16</sup>, MID<sup>+19b</sup>, MID<sup>+19a</sup>, RPMRLJ<sup>+19</sup>, SPLV<sup>+15</sup>].

**Intraspecific** [BAD<sup>+12</sup>]. **Introduced** [BMD<sup>+14</sup>]. **intubation**

[JSAH<sup>+18</sup>, SJSA<sup>+14</sup>]. **Invasion**

[RhAS<sup>+15</sup>, HGW<sup>+19</sup>, KVC<sup>+16</sup>, VMBGIC19]. **invasions** [WTM14]. **invasive**

[BND<sup>+17</sup>, GCNB18, KPKP10, MKK<sup>+11</sup>, RHST<sup>+16</sup>, SBD11]. **invertebrates** [BCL<sup>+19</sup>, HCCM12]. **investigate** [AAUHW15]. **Investigating** [GAEK<sup>+14</sup>, JBO<sup>+15</sup>]. **Investigation** [DWL<sup>+17</sup>, DYML<sup>+18</sup>, GFB<sup>+19</sup>, SS17, SFF<sup>+17</sup>, VCR<sup>+11</sup>, YLSW14, BSW17, HZJ<sup>+19</sup>, KOI<sup>+14</sup>, SSJ<sup>+19</sup>]. **Investigations** [NLC<sup>+16</sup>, SVV<sup>+17</sup>]. **investment** [PPF<sup>+12</sup>]. **involved** [CIL<sup>+17</sup>, DLP<sup>+13</sup>, GSEM13, LCV<sup>+17</sup>, LSC<sup>+14</sup>, MBB12, PKLH19, RMS<sup>+13</sup>, WCL<sup>+19</sup>]. **Involvement** [BSD<sup>+18b</sup>, BSD<sup>+18c</sup>, LTC16, NB10]. **involving** [CDD<sup>+18</sup>, DABO<sup>+17</sup>, LEM<sup>+19</sup>]. **iodine** [MoSMS18]. **iodixanol** [DLCC<sup>+13</sup>]. **IPN** [CRAG<sup>+12</sup>]. **IPNV** [BAH<sup>+18</sup>, CGW<sup>+19</sup>, ECP<sup>+10</sup>, JJSJ15, KBD13, LJGRI<sup>+10</sup>, NSE<sup>+17</sup>, NB10, PFJ<sup>+10</sup>]. **Iran** [RHZA<sup>+16</sup>]. **Ireland** [JCN<sup>+14</sup>, BW18, GFW<sup>+10</sup>, GFR<sup>+12</sup>, JCN<sup>+13</sup>, JKO<sup>+13</sup>, KRFT14, MSR<sup>+10</sup>, RSMH09, SBH<sup>+16</sup>, TCM<sup>+19</sup>]. **iridoviral** [LGK<sup>+14</sup>]. **Iridoviridae** [MNG<sup>+18</sup>]. **Iridovirus** [WBD10a, CCLL16, GHH<sup>+11</sup>, HLC<sup>+15</sup>, JLJ16, KHC<sup>+18</sup>, LCC<sup>+15</sup>, RWTB17, SCK13, WZL<sup>+11</sup>, YLX<sup>+19b</sup>]. **iridovirus-type** [KHC<sup>+18</sup>]. **iridoviruses** [BLL<sup>+17</sup>]. **Irish** [GM11]. **Iron** [BPMI<sup>+16</sup>, BLF<sup>+16</sup>, BAMYAH19, CRO<sup>+18</sup>, OJRL10, VMBGE17, WZL13]. **iron-acquisition** [BAMYAH19]. **irradiation** [CB13]. **irritans** [LMAKN16]. **ISA** [CRAG<sup>+12</sup>]. **ISAV** [AGB<sup>+19</sup>, GL18, MMWK19, NSE<sup>+17</sup>]. **Isbrücker** [ADR11]. **ISKNV** [TIK<sup>+14a</sup>]. **Island** [HSGD11, MMMD16]. **islandica** [ATP<sup>+16</sup>]. **islands** [LCV<sup>+17</sup>, Gis18]. **isogeneic** [NSS<sup>+17</sup>]. **isolate** [CHH<sup>+14</sup>, HO13, HHX<sup>+15</sup>, IOO15, JSK<sup>+10</sup>, MID<sup>+19a</sup>, ZLX<sup>+19</sup>]. **isolated** [BT14, CVLJ<sup>+10</sup>, CMSHS16, COB<sup>+16</sup>, CLLF14, DMP10, DLPR15, DSJA18, GJVT<sup>+11</sup>, GBO<sup>+18</sup>, GCMG<sup>+11</sup>, HKK<sup>+11b</sup>, HY16, IGLG<sup>+17</sup>, KTP<sup>+15</sup>, KKM<sup>+19</sup>, KSAB<sup>+14</sup>, LEM<sup>+19</sup>, LYL<sup>+18</sup>, MNM<sup>+18</sup>, NM1Y14, NMM<sup>+18</sup>, PKPG15, PSBG<sup>+11</sup>, PAZ18, PLC<sup>+19b</sup>, RKK<sup>+19</sup>, RVC18, SDWA18, dASLS<sup>+19</sup>, SKB10, TWYC15, YkSKY13, ZZC<sup>+17</sup>]. **isolates** [ACAS14, AAZS<sup>+15</sup>, BAD<sup>+12</sup>, BGC<sup>+17</sup>, BBP18, BFC<sup>+15</sup>, CD17, CYS17, DBV<sup>+13</sup>, DLCF13, DZV10, DMK<sup>+19</sup>, FSB<sup>+18c</sup>, FNISE12, GPFGAG19, GRG<sup>+16</sup>, HBB<sup>+15</sup>, HKB<sup>+16</sup>, HXZ<sup>+16</sup>, JDH<sup>+18</sup>, JGI<sup>+10</sup>, JMS13, JSJR<sup>+18</sup>, KWD<sup>+16</sup>, LLLG18, MPBM<sup>+16</sup>, MNM<sup>+18</sup>, NSB<sup>+18</sup>, PSCFB<sup>+18</sup>, PRY<sup>+18</sup>, RB15, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, RSMH09, SHO<sup>+17</sup>, SLKE10, TJB<sup>+15</sup>, ZWL<sup>+16</sup>]. **Isolation** [ABF15, BLFC12, CLZ<sup>+12</sup>, DKBS17, FDL<sup>+17</sup>, GJM<sup>+15</sup>, GFS<sup>+14</sup>, JDRM17, LDA<sup>+19</sup>, OBR<sup>+14</sup>, PBMB11, RSM<sup>+18</sup>, SSF<sup>+17</sup>, SMC<sup>+11</sup>, WCW<sup>+16b</sup>, ZB12, ZSZF16, ZLX<sup>+19</sup>, ATM<sup>+10</sup>, BMMP<sup>+14</sup>, DSMC17, DABO<sup>+17</sup>, LPVGL<sup>+10</sup>, MHNY18, MNM<sup>+19</sup>, SPS<sup>+17</sup>, SMV<sup>+14</sup>, SWE<sup>+19</sup>, VDD<sup>+18</sup>, ZxYJ<sup>+19</sup>, EA18]. **isopods** [HSGD11]. **isothermal** [HJOK11, JYZ<sup>+14</sup>, KTN<sup>+16</sup>, LLWL15, MSI<sup>+15</sup>, YWW<sup>+19</sup>]. **Issue** [Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l]. **Isurus** [ABM<sup>+15</sup>]. **Itagaki** [LML12]. **Italy** [APP<sup>+17</sup>, VPS<sup>+14</sup>, BVG<sup>+10</sup>, BVT<sup>+18</sup>, CGP<sup>+19</sup>, FCC<sup>+13</sup>, FSC<sup>+16</sup>, QPB<sup>+16</sup>]. **items** [PJJ<sup>+12</sup>]. **IV** [DJR<sup>+19</sup>, GVC<sup>+19</sup>, MSG<sup>+18</sup>]. **IVb**

[AHRH<sup>+</sup>10, AHRP<sup>+</sup>16, Ano12c, GMN12, GRP<sup>+</sup>15, HPAL10, KF10a, MF12, OEG<sup>+</sup>13, VBL<sup>+</sup>15, VBL<sup>+</sup>16, WKW<sup>+</sup>11]. **ivermectin** [ANB<sup>+</sup>19].

**Jackson** [KRFT14]. **jandaei** [DTJ<sup>+</sup>17]. **Japan** [CONN10, MHN18, MKMY10, TIK<sup>+</sup>14a, ZYW<sup>+</sup>10]. **Japanese** [FYO<sup>+</sup>11, KYK<sup>+</sup>12, KPK<sup>+</sup>18, OMO<sup>+</sup>15, WCW<sup>+</sup>16b]. **japonensis** [SBD11]. **japonica** [KYK<sup>+</sup>12, KPK<sup>+</sup>18, KLD<sup>+</sup>18, OMO<sup>+</sup>15]. **japonicus** [ESA<sup>+</sup>10, LQL<sup>+</sup>10, MTK<sup>+</sup>10, XJL<sup>+</sup>19]. **Jasus** [ZJDL18]. **Jaundice** [OAO<sup>+</sup>12, MFS<sup>+</sup>17, GMC<sup>+</sup>16a]. **jaw** [ACA<sup>+</sup>16, WBE<sup>+</sup>17]. **JEECV** [OMO<sup>+</sup>15]. **jellyfish** [MLMR16, PÁD18]. **jirovecii** [AMAR18]. **Jordan** [DBHC17, FYO<sup>+</sup>11, WWS<sup>+</sup>11]. **jordani** [GM11]. **juvenile** [ASW16, AAV<sup>+</sup>16, BCT<sup>+</sup>17, BBP18, HSGD11, HKD<sup>+</sup>10, KF10b, KPM<sup>+</sup>11, LKS<sup>+</sup>13, MUM<sup>+</sup>19, MPM16, PST<sup>+</sup>16, PSS17, STF<sup>+</sup>15, SSF<sup>+</sup>17, XLZ<sup>+</sup>17, VCLW16]. **juveniles** [EEMCEGSP16, OP14, PBM<sup>+</sup>15, RBWR<sup>+</sup>15, SOA<sup>+</sup>18].

**Kaolinitic** [BBF<sup>+</sup>15]. **Kaup** [CVLJ<sup>+</sup>10, CTD<sup>+</sup>12, CPP14, CRS<sup>+</sup>13, CSCCA14, FBL<sup>+</sup>14, dALF<sup>+</sup>17]. **Kellogg** [TNK12, WBF<sup>+</sup>10]. **Kempkes** [ADR11]. **Kenya** [MNM<sup>+</sup>18, MNM<sup>+</sup>19]. **keta** [KBE<sup>+</sup>14]. **key** [KFK<sup>+</sup>16, LXZ<sup>+</sup>19, WMM17, ZZQ<sup>+</sup>19]. **Khawia** [SBD11]. **KHV** [BSK<sup>+</sup>10, BWZ<sup>+</sup>17, KKOY19, MTA<sup>+</sup>15, PFP<sup>+</sup>13, RBM<sup>+</sup>16, SMC<sup>+</sup>11, ZWL<sup>+</sup>14]. **KHV-CJ** [ZWL<sup>+</sup>14]. **KHVD** [BSK<sup>+</sup>10]. **kidney** [BSW17, BLdA<sup>+</sup>18, BSSH17, BLP10, BSBH10, CHAB10, CSCCA14, GHH<sup>+</sup>11, KSM<sup>+</sup>17, Lek12, PRSK10, RhMM<sup>+</sup>15, RWTB17, SWD<sup>+</sup>14, SSO<sup>+</sup>14, TIK<sup>+</sup>14a, WWS<sup>+</sup>11, XWP<sup>+</sup>18]. **kidney-derived** [WWS<sup>+</sup>11]. **kill** [MP18]. **killer** [BRB<sup>+</sup>12, LSC<sup>+</sup>14]. **killing** [MWRSK17, TDLT<sup>+</sup>16]. **kills** [LDEH17]. **kinase** [FMA<sup>+</sup>19, HCW<sup>+</sup>16, PMH<sup>+</sup>11]. **kind** [BSPS<sup>+</sup>18]. **Kinetic** [FGJ<sup>+</sup>10, TDT<sup>+</sup>16]. **kinetics** [SS17, TNK12]. **Kingdom** [NSB<sup>+</sup>18]. **kingfish** [NWMK16, STIG17]. **Kinkelin** [HMDB13]. **kisutch** [AHTCA<sup>+</sup>17]. **Klamath** [JMHK18]. **Kner** [EDSL11]. **knowledge** [GFS<sup>+</sup>18, JJM<sup>+</sup>17, KSS17, LRMN17, MYWC18, ZGY<sup>+</sup>18]. **known** [MS16, VLVS<sup>+</sup>16]. **Koi** [CCT<sup>+</sup>11, PTM<sup>+</sup>19, TDJ<sup>+</sup>10, ATJS<sup>+</sup>18, BSK<sup>+</sup>10, BMK17, CLC<sup>+</sup>17, CCW<sup>+</sup>15, CLHGK17, CDD<sup>+</sup>18, EYF<sup>+</sup>19, FBS13, FSV<sup>+</sup>14, GJM<sup>+</sup>15, HDC18, KKOY19, MTA<sup>+</sup>15, MTAB15, RHZA<sup>+</sup>16, RBH<sup>+</sup>17, SGB<sup>+</sup>16, SEM18, SMC<sup>+</sup>11, TWJP10, WZW<sup>+</sup>18, YkSKY13]. **koi-herpesvirus** [YkSKY13]. **Korea** [HKK<sup>+</sup>11a, HKK<sup>+</sup>11b, HPY<sup>+</sup>13, KYK<sup>+</sup>12, KLD<sup>+</sup>18, RKK<sup>+</sup>19, SDJH16]. **Korean** [KOS<sup>+</sup>10]. **koreensis** [SM14]. **Krabbe** [BK12, MGH<sup>+</sup>14]. **Krkosek** [JCN<sup>+</sup>14]. **Krøyer** [AHH16, DLLB<sup>+</sup>18, IPW<sup>+</sup>13, JR19, PJZB19]. **Kruger** [HGPD11, HOHG13]. **kuda** [DCV<sup>+</sup>14, LYD<sup>+</sup>15]. **Kudo** [RKPG16]. **Kudoa** [ATP<sup>+</sup>16, CB13, MSBB<sup>+</sup>16, SS17, TOK<sup>+</sup>16]. **kuruma** [ESA<sup>+</sup>10, MTK<sup>+</sup>10]. **Kuwahara** [LML12]. **kynurenic** [KSM<sup>+</sup>17].

**L** [ASHZ<sup>+</sup>12, JCN<sup>+</sup>14, ZWLG10, LFD<sup>+</sup>17, ZCJ<sup>+</sup>18]. **L-aspartate** [ZCJ<sup>+</sup>18].

**L-Lactic-Co-Glycolic** [ASHZ<sup>+</sup>12]. **L-rhamnose** [LFD<sup>+</sup>17]. **L.**  
 [ACN12, ATP<sup>+</sup>16, AGFG19, AZSSZZ13, ACA<sup>+</sup>16, AAV<sup>+</sup>16, ARFG13, ASSP<sup>+</sup>15, Ano10c, AI11, ACM<sup>+</sup>14, ATP<sup>+</sup>17, AdOG<sup>+</sup>17, BNC<sup>+</sup>11, BSWS11, BSC<sup>+</sup>14, BMD<sup>+</sup>14, BGRB14, BLFRCQ10, BC11, BT14, BSSH17, BMGS17, BMT<sup>+</sup>15, BHA<sup>+</sup>17, BNS13, BK12, BSBH10, BGCKF12, CBLN13, CBC<sup>+</sup>13, CVLJ<sup>+</sup>10, CVGR<sup>+</sup>13, CJB<sup>+</sup>15, CR12, CLL<sup>+</sup>10, CCT<sup>+</sup>11, CLHGK17, CKTT10, CCHL13, CCME16, CZB<sup>+</sup>11, CRAG<sup>+</sup>12, CLLF14, DTF<sup>+</sup>16, DKG<sup>+</sup>17, DLLB<sup>+</sup>18, DMB<sup>+</sup>19, DLP<sup>+</sup>13, DdRTM13, DPCdR14, DTJ<sup>+</sup>17, DRdS<sup>+</sup>10, EPA<sup>+</sup>10, ECP<sup>+</sup>10, EWH<sup>+</sup>19, ELI<sup>+</sup>17, EDV<sup>+</sup>18, ESV<sup>+</sup>19b, EMA17, FLCC<sup>+</sup>14, FSV<sup>+</sup>14, FKB<sup>+</sup>14, FMM<sup>+</sup>19, FCC<sup>+</sup>13, FSC<sup>+</sup>16, FFP<sup>+</sup>14, FFFF15, FMH<sup>+</sup>15, GJVT<sup>+</sup>11, GFO<sup>+</sup>13, GFS<sup>+</sup>18, GMG<sup>+</sup>19, GMC<sup>+</sup>16a, GJM<sup>+</sup>15, GIW<sup>+</sup>11, GSS<sup>+</sup>10, GGH<sup>+</sup>10, GCMG<sup>+</sup>11, GMC<sup>+</sup>16b, GSEM13, GBSF12, GFR<sup>+</sup>12, GRT12, GHB<sup>+</sup>11, GCGR13, GGGM14, HHO14, HLHS11, HKD<sup>+</sup>10, HSA17, HST<sup>+</sup>13, HCL<sup>+</sup>14, HJN<sup>+</sup>19, HMW11, HFKF17, HKF<sup>+</sup>16].  
**L.** [IPW<sup>+</sup>13, IAR<sup>+</sup>10, JCN<sup>+</sup>13, JKO<sup>+</sup>13, JQK14, JWO<sup>+</sup>10, JTW<sup>+</sup>10, JAR<sup>+</sup>11, JBO<sup>+</sup>15, JOF<sup>+</sup>19, JNS<sup>+</sup>19, JCS11, JHRW17, JHGR13, JJSJ15, KAS<sup>+</sup>18, KTP<sup>+</sup>15, KSA<sup>+</sup>10, KPM<sup>+</sup>11, KRFT14, KAST17, KBD13, KWD<sup>+</sup>16, LGK<sup>+</sup>14, LDÁM14, LAN<sup>+</sup>14, LLH<sup>+</sup>14a, LGS<sup>+</sup>14, LCR<sup>+</sup>10, LJGRI<sup>+</sup>10, LPVGL<sup>+</sup>10, LBF<sup>+</sup>14, MBB12, MKI<sup>+</sup>15, MIO<sup>+</sup>18, MMWK19, MCWL13, MLMR16, MLRS<sup>+</sup>17, MLER<sup>+</sup>18, MSBB<sup>+</sup>16, MLF<sup>+</sup>10, MMBS10, MBS<sup>+</sup>17, MRSC13, MAC<sup>+</sup>15, MVWS13, MID<sup>+</sup>19b, MID<sup>+</sup>19a, MSS<sup>+</sup>12, MSR<sup>+</sup>10, MGH<sup>+</sup>14, MGM<sup>+</sup>16, MTA<sup>+</sup>15, MTAB15, MMH10, NLF11, NJK<sup>+</sup>17, NYRS12, NB10, OBR<sup>+</sup>14, OSC<sup>+</sup>14, ONGQ<sup>+</sup>14, OCLI<sup>+</sup>19, ONA10, OBD10, PAM<sup>+</sup>19, PBC15, PBM<sup>+</sup>15, PSZ<sup>+</sup>14, PBMB11, PGF<sup>+</sup>19, PHVM13, PFP<sup>+</sup>13, PYSS19, PB18, PPK<sup>+</sup>13, PPI<sup>+</sup>13, PFJ<sup>+</sup>10, PG16, PÅD18, PJU<sup>+</sup>13, QXW14, RHZA<sup>+</sup>16, Řeh13, RB15, RGD<sup>+</sup>12, RMAM12, RBF14, RMR14, RSH11, RSIP<sup>+</sup>17, RBWR<sup>+</sup>15, SMR10, SMM<sup>+</sup>13, SFR<sup>+</sup>17]. **L.**  
 [Sam10, SBD11, SFBW<sup>+</sup>17, SWM<sup>+</sup>15, SPKS17, SLKE10, SL15, SBH<sup>+</sup>16, SFU<sup>+</sup>13, SG12, SWH<sup>+</sup>14, STES14, SWWN<sup>+</sup>16, SWS<sup>+</sup>16, SKGE13, SBK<sup>+</sup>13, SKPS16, SKJ13, SSA13, SRB12, SNK<sup>+</sup>19, SJSA<sup>+</sup>14, TWNB<sup>+</sup>12, TJB<sup>+</sup>15, TCC10a, TES11, TCM<sup>+</sup>19, TMC<sup>+</sup>12, TNK12, Tre12, TWYC15, VDMJ<sup>+</sup>13, VCN<sup>+</sup>10, VTM<sup>+</sup>14, VMCM14, VFB<sup>+</sup>12, WDM<sup>+</sup>15, WMM<sup>+</sup>16, WPH<sup>+</sup>13, WZW<sup>+</sup>18, WIC<sup>+</sup>19, WNLF<sup>+</sup>12, WNSAL12, WNAF<sup>+</sup>13, WNMK<sup>+</sup>16, WNAJ<sup>+</sup>16, WKK12, WEPB<sup>+</sup>18, YSHG18, YFA<sup>+</sup>17, YNL11, YMBE13, YP17, ZCCN13, ZNHC11a, ZNHC11b, ZCP12, ZWLG10, ZPM<sup>+</sup>18]. **labelled**  
 [KTK17, VLVS<sup>+</sup>16, RGD<sup>+</sup>12]. **labelling** [EPCSBP18]. **Labeo**  
 [KREM14, SSSP18]. **Laboratory**  
 [ZCCN13, CBW19, KCL14, KAEMSEM13, MMD16, SSK17]. **labracis**  
 [RRC<sup>+</sup>17]. **labrax** [CKTT10, FCM<sup>+</sup>19, FPK<sup>+</sup>17, LMC<sup>+</sup>16, NOST<sup>+</sup>16, PBC15, PST<sup>+</sup>16, RRC<sup>+</sup>17, RGD<sup>+</sup>12, TMC<sup>+</sup>12, TNK12, VTM<sup>+</sup>14].  
**Labridae** [MMW<sup>+</sup>15, Tre12, WDM<sup>+</sup>15]. **Labrus**  
 [BVK<sup>+</sup>16, BT14, RSP<sup>+</sup>17, RSM<sup>+</sup>18, SRM<sup>+</sup>18]. **Lacépède**  
 [AZSI<sup>+</sup>12, CGAS19, CLZ<sup>+</sup>12, CWL<sup>+</sup>17, LYD<sup>+</sup>15, MGN<sup>+</sup>16, WKW13]. **Lack**  
 [KSA<sup>+</sup>10, SL15]. **Lactic** [ASHZ<sup>+</sup>12, PSBG<sup>+</sup>11]. **lactis** [WEPB<sup>+</sup>18].



**lactococcosis** [CRBLC<sup>+17</sup>, CPB<sup>+15</sup>, FLC<sup>+17</sup>]. **Lactococcus** [ABT<sup>+14</sup>, CLT<sup>+14</sup>, DPMK12, FLC<sup>+17</sup>, HY16, PSBG<sup>+11</sup>, TAC15, WEPB<sup>+18</sup>]. **Lagoon** [YMBE13, YB17]. **Lagos** [AAUHW15]. **Lake** [BSC<sup>+14</sup>, JMHK18, MKKM15, NFF<sup>+17</sup>, ARR<sup>+18</sup>, CMS<sup>+19</sup>, CMR<sup>+16</sup>, HWO<sup>+17</sup>, JST<sup>+19</sup>, MCW<sup>+18</sup>, NMV<sup>+19</sup>, PYSS19, TSS18, TRS19, WWZ<sup>+18</sup>, WKW<sup>+11</sup>, YTKS19, YLL<sup>+18</sup>, YWW<sup>+19</sup>, BGRB14, BWB<sup>+17</sup>, HAP<sup>+10</sup>, HWO<sup>+17</sup>, MCW<sup>+18</sup>]. **lakes** [AAUHW15, EKED<sup>+17</sup>, FDL<sup>+17</sup>, KF10a, KF10b, OEG<sup>+13</sup>, WKW<sup>+11</sup>]. **lalandei** [STIG17]. **lalandi** [KHS11, NWMK16, RBAT<sup>+17</sup>, STIG17, SS17]. **LamB** [YZW<sup>+19</sup>]. **laminin** [MBD16]. **LAMP** [HJOK11, YWW<sup>+19</sup>]. **Lamproglena** [MAOS<sup>+18</sup>]. **lanceolatus** [BFFA<sup>+12</sup>, CBH<sup>+15</sup>, DDBC<sup>+15</sup>, GHW<sup>+15</sup>, SSF<sup>+17</sup>, ZDWH18]. **Landsberg** [ZYW<sup>+10</sup>]. **langsdorfi** [KKOY19, NSS<sup>+17</sup>]. **large** [HZJ<sup>+19</sup>, SPP<sup>+18</sup>, XQS<sup>+15</sup>, ZZA<sup>+14</sup>, ZWG<sup>+17</sup>]. **Largemouth** [CGAS19, PBBG19, ZLX<sup>+19</sup>]. **Larimichthys** [XQS<sup>+15</sup>, ZZA<sup>+14</sup>, ZWG<sup>+17</sup>]. **larvae** [BCBS<sup>+13</sup>, BRMG13, BA13, CVGR<sup>+13</sup>, DMB<sup>+16</sup>, DMD<sup>+17</sup>, DABO<sup>+17</sup>, EEMCEGSP16, HBH<sup>+19</sup>, HPY<sup>+13</sup>, KS19, KTK17, LMC<sup>+16</sup>, MBB12, MRN<sup>+19</sup>, MGF17, NRF<sup>+18</sup>, NDA<sup>+19</sup>, RGD<sup>+12</sup>, RGMGG<sup>+18</sup>, RSH11, RCD<sup>+17</sup>, SPP<sup>+18</sup>, SCS<sup>+12</sup>, TNK12, WCL<sup>+12</sup>, ZJR<sup>+18</sup>]. **larval** [BT14, EDN18, MVM<sup>+18</sup>, RRO<sup>+13</sup>, RBAT<sup>+17</sup>]. **laser** [BCM<sup>+17</sup>, WNLF<sup>+12</sup>]. **late** [CCLL16, LCC<sup>+15</sup>, MLER<sup>+18</sup>]. **late-stage** [MLER<sup>+18</sup>]. **latency** [IFF<sup>+15</sup>]. **latent** [ATM<sup>+10</sup>, LMG<sup>+19</sup>]. **Lateolabrax** [SDJH16, XJL<sup>+19</sup>]. **lateral** [FPK<sup>+17</sup>, WSX<sup>+18</sup>]. **lateral-line** [FPK<sup>+17</sup>]. **Lates** [BO15, GKCC<sup>+12</sup>, JHW17, KNN19, SDM<sup>+19</sup>, TGJCH15]. **Latris** [ABC<sup>+10</sup>, CB13]. **Laurentian** [FDL<sup>+17</sup>, KF10b]. **layer** [GLK<sup>+16</sup>]. **LE141** [GPGFAG19]. **LE89** [GPGFAG19]. **lead** [CCHL13, GBV<sup>+16</sup>, MSS<sup>+12</sup>]. **leads** [ASW16, EDV<sup>+18</sup>, MSG<sup>+18</sup>, OP14]. **leaves** [ZTF<sup>+10</sup>]. **Lecanicephalidea** [BCJ13]. **lectin** [ACYC10, PBC15]. **Leech** [PBBG19, KCL14]. **leei** [ERÁpSB14, SSJ<sup>+19</sup>]. **leg** [TTL<sup>+16</sup>]. **length** [NRMS14]. **lentiginosus** [AFA<sup>+12</sup>]. **Lepeophtheirus** [AHH16, AH16, BRL<sup>+13</sup>, BDD<sup>+18</sup>, DLLB<sup>+18</sup>, EDN18, FSB18a, GCGR13, HH13b, IPW<sup>+13</sup>, JCN<sup>+13</sup>, JCN<sup>+14</sup>, JR19, JHGR13, KJB11, KRFT14, LGJ19, NRF<sup>+18</sup>, NLC<sup>+16</sup>, NBJ10, OWM<sup>+17</sup>, PJZB19, PPI<sup>+13</sup>, PFC<sup>+13</sup>, SMR10, SMM<sup>+13</sup>, SMR16, SFU<sup>+13</sup>, SSA13, USM17, WWE<sup>+13</sup>]. **lepeophtherii** [MRSC13]. **lepidosarcomas** [SMS<sup>+19</sup>]. **Lepidotrema** [FHD13]. **Lepomis** [ALG15, BMA13, DWL<sup>+17</sup>, LEM<sup>+19</sup>, LDEH17, LFL19]. **Lernaea** [RHS<sup>+12</sup>]. **Lernaeidae** [MAOS<sup>+18</sup>]. **Lernaeocera** [BSWS11]. **Lernaeopodidae** [PMBM13]. **lesion** [HKF<sup>+16</sup>]. **Lesional** [ONGQ<sup>+14</sup>]. **Lesions** [BB11, AGFG19, BOH<sup>+12</sup>, BMA13, CBFM16, Góm12, GHB<sup>+11</sup>, LLS<sup>+11</sup>, LWMT10, MPM16, PSS17, RhMM<sup>+15</sup>, RVB13, RSF<sup>+17</sup>, RBF14, SMJ<sup>+12</sup>, SM14, SON<sup>+18</sup>, VPS<sup>+14</sup>, VPCM19, WNLF<sup>+12</sup>]. **Lesson** [LYD<sup>+15</sup>]. **Lesueur** [GPWF19, LML12, LTC<sup>+14</sup>, PHR14, SCZM19]. **Letaba** [HGPD11]. **lethal** [FCM<sup>+19</sup>, MTAB15, SRB12]. **lethality** [DIVC16]. **lethostigma** [WWS<sup>+11</sup>]. **leucocytes** [CHAB10, CSCCA14]. **levamisole**

[ANB<sup>+19</sup>, OMB<sup>+19</sup>]. **level** [GBV<sup>+16</sup>, KAS<sup>+18</sup>, MTLP<sup>+18b</sup>, PSCFB<sup>+18</sup>]. **Levels** [áKÁGA16, DIVC16, GDN<sup>+16</sup>, HGG<sup>+11</sup>, JKO<sup>+13</sup>, MMH10, RHTC19b, YAHWU11]. **LF** [RSIP<sup>+17</sup>, RSPA<sup>+18</sup>]. **LF-89-like** [RSIP<sup>+17</sup>, RSPA<sup>+18</sup>]. **Libyan** [RBS<sup>+16</sup>, RSF<sup>+17</sup>]. **Lice** [BT13, Kan18, AH16, EWRH13, FVAVMGE18, GBV<sup>+16</sup>, GVB<sup>+17b</sup>, GVB<sup>+17a</sup>, Gis18, GCGR13, HGH<sup>+18</sup>, HH13b, JCN<sup>+13</sup>, JKO<sup>+13</sup>, JCN<sup>+14</sup>, JMD<sup>+18</sup>, JR19, JHGR13, KRFT14, LGJ19, MSMM19, MMH<sup>+18</sup>, NRF<sup>+18</sup>, NBJ10, PdLC19, PJU<sup>+13</sup>, PFC<sup>+13</sup>, SMR10, SMM<sup>+13</sup>, SCF<sup>+13</sup>, SDI<sup>+18</sup>, SSA13, SSL18, TJA<sup>+13</sup>, UMMS17, VDMJ<sup>+13</sup>, WWE<sup>+13</sup>, WOD16, YAHWU11, VCLW16]. **lice-induced** [JCN<sup>+13</sup>, JCN<sup>+14</sup>, KRFT14]. **lids** [BHW<sup>+11</sup>]. **Life** [RRC<sup>+17</sup>, AJLK<sup>+18</sup>, JHGR13, LF18, LNC<sup>+17</sup>]. **ligands** [YGL<sup>+18</sup>]. **light** [BRL<sup>+13</sup>, HPAL10, LSA<sup>+15</sup>]. **Ligurian** [VPS<sup>+14</sup>]. **like** [BRB<sup>+12</sup>, BMH<sup>+19</sup>, CCLGRM<sup>+17</sup>, CBFM16, dJDAVRGM<sup>+18</sup>, GMB<sup>+17</sup>, GBO<sup>+18</sup>, KHLL16, LLS<sup>+11</sup>, MBB12, MRR<sup>+14</sup>, MTG<sup>+10</sup>, MID<sup>+19b</sup>, NSE<sup>+17</sup>, PRSK10, RAVC18, RPJ<sup>+18</sup>, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, SHO<sup>+17</sup>, SHKF16, SWD<sup>+14</sup>, WCL<sup>+19</sup>, ZGY<sup>+18</sup>, CKJ<sup>+14</sup>, MID<sup>+19a</sup>, NPGA<sup>+19</sup>]. **Limanda** [SBH<sup>+16</sup>, VDD<sup>+18</sup>]. **Limited** [PSCFB<sup>+18</sup>]. **Lindau** [HDC18]. **line** [ADR11, APG<sup>+11</sup>, BNC<sup>+11</sup>, BAMYAH19, FPK<sup>+17</sup>, GHH<sup>+11</sup>, GSBEM15, GHW<sup>+15</sup>, IFF<sup>+15</sup>, KLW10, LJC<sup>+19</sup>, MVM<sup>+18</sup>, NSE<sup>+17</sup>, PWHW18b, PWW19, PMW<sup>+10</sup>, SVL<sup>+17</sup>, SSG<sup>+19</sup>, SDR<sup>+15</sup>, VBL<sup>+15</sup>, VKK<sup>+19</sup>, WWS<sup>+11</sup>, WWZ<sup>+18</sup>, WZW<sup>+18</sup>, WKW13, Wen16, WBD<sup>+10b</sup>, XWP<sup>+18</sup>, YNL11, YCNW18]. **lineage** [MBS<sup>+17</sup>, SMC<sup>+11</sup>]. **lineages** [WBD<sup>+10b</sup>]. **lineata** [ABC<sup>+10</sup>, CB13]. **lined** [BCW<sup>+15</sup>, QWTL17, SBHC18]. **lines** [CLL<sup>+10</sup>, CGCAH12, EYF<sup>+19</sup>, MTHB13, NMV<sup>+19</sup>, VBL<sup>+16</sup>]. **link** [DPD<sup>+18</sup>, MLF<sup>+10</sup>]. **linked** [BWZ<sup>+17</sup>, DCMM13, DBM<sup>+14</sup>, FMA<sup>+19</sup>, KHLL16, NMiy14, PMH<sup>+11</sup>, TvWO<sup>+16</sup>, YLX<sup>+19a</sup>, ZLN<sup>+17</sup>]. **links** [LC17]. **Linn** [ZKL<sup>+19</sup>]. **Linnaeus** [ASW16, BAH<sup>+16</sup>, FCM<sup>+19</sup>, FPK<sup>+17</sup>, GAVC16, HSHC<sup>+16</sup>, LLZW14, LDEH17, MBD16, MSS<sup>+17b</sup>, PJZB19, TDS<sup>+19</sup>, WSA<sup>+18</sup>]. **Linnhe** [SMR16, SDI<sup>+18</sup>]. **lion** [PÁD18]. **lipid** [CHF<sup>+12</sup>, DMB<sup>+19</sup>, HOHG13]. **lipidosis** [DBHC17, SKPS16]. **Lipoid** [DBHC17]. **lipomatosis** [RHST<sup>+16</sup>]. **lipopolysaccharide** [JBGP11]. **Liposarcoma** [RHST<sup>+16</sup>, SBK<sup>+15</sup>]. **liposome** [MTK<sup>+10</sup>]. **liposome-coated** [MTK<sup>+10</sup>]. **Liquid** [BCW<sup>+15</sup>, SHV<sup>+16</sup>]. **listed** [HAS<sup>+19</sup>]. **Listonella** [RRO<sup>+13</sup>]. **Litopenaeus** [HXZ<sup>+16</sup>, BTN<sup>+18</sup>, CLW<sup>+13</sup>, H MV<sup>+17</sup>, JQK14, KS19, RPGCIG17, SSV<sup>+17</sup>, SVM<sup>+18</sup>, TMM<sup>+15</sup>, TDLT<sup>+16</sup>, TDT<sup>+16</sup>]. **Little** [GB18, MS16]. **little-known** [MS16]. **litulon** [FYO<sup>+11</sup>]. **live** [CBW19, CBM<sup>+18</sup>, GWM12, MBS<sup>+19a</sup>, TWJP10, WKK12]. **live-attenuated** [MBS<sup>+19a</sup>]. **Liver** [DMD<sup>+17</sup>, NB10, PSZ<sup>+14</sup>, CMS<sup>+19</sup>, DBHC17, FBK<sup>+16</sup>, JCS11, KSM<sup>+17</sup>, RhMV<sup>+15</sup>, RMAM12, TMWV14]. **living** [OMO<sup>+15</sup>]. **liza** [PMBM13]. **Lizard** [HSGD11]. **lizardfish** [KSAB<sup>+14</sup>]. **loach** [ZWL<sup>+16</sup>]. **load** [DD18, OBFR12, USM17, VCN<sup>+10</sup>]. **loads** [PdLC19]. **lobster** [CG11, SQC<sup>+14</sup>, ZJDL18]. **local** [ASB<sup>+12</sup>, ESV<sup>+19b</sup>]. **localization** [ACYC10, PSS17]. **located** [HGW<sup>+19</sup>].

**location** [BNS13]. **locations** [JCN<sup>+13</sup>, JCN<sup>+14</sup>, KRFT14]. **Loch** [SMR16, SDI<sup>+18</sup>]. **loci** [PdLC19]. **locus** [MSG<sup>+18</sup>]. **Lom** [ZYW<sup>+10</sup>]. **Loma** [MVM<sup>+18</sup>, PG16]. **Long** [DIVC16, MSBB<sup>+16</sup>, KHG<sup>+17</sup>]. **Long-term** [DIVC16, MSBB<sup>+16</sup>, KHG<sup>+17</sup>]. **longfin** [ABM<sup>+15</sup>, MWS17, WTM14]. **longiceps** [GMP<sup>+11</sup>]. **longitudinal** [GFW<sup>+10</sup>, JWO<sup>+10</sup>]. **longsnout** [DSMC17, LKT<sup>+13</sup>]. **loop** [HJOK11, JYZ<sup>+14</sup>, KTN<sup>+16</sup>, LLWL15, MSI<sup>+15</sup>]. **loop-mediated** [HJOK11, JYZ<sup>+14</sup>, KTN<sup>+16</sup>, LLWL15, MSI<sup>+15</sup>]. **loopmediated** [YWW<sup>+19</sup>]. **Lophiiformes** [LZGZ16]. **Lophius** [FYO<sup>+11</sup>]. **lordosis** [LGS<sup>+14</sup>]. **lords** [GM11]. **Loskop** [HWO<sup>+17</sup>]. **loss** [TJB<sup>+15</sup>]. **Lost** [JMHK18]. **Lota** [PFJ<sup>+10</sup>]. **Lough** [MFES18]. **louse** [AHH16, BRL<sup>+13</sup>, BDD<sup>+18</sup>, EDN18, FSB18a, HBS<sup>+14</sup>, KJB11, NLC<sup>+16</sup>, OWM<sup>+17</sup>, SFU<sup>+13</sup>, USM17]. **Low** [HHO14, HZP<sup>+12</sup>, JLJ16, AAZS<sup>+15</sup>, BLF<sup>+16</sup>, EDV<sup>+18</sup>, GAVC16, HGG<sup>+11</sup>, LRS<sup>+17</sup>, LZZN10, MMBS10, MAC<sup>+15</sup>, MTHB13, MSK<sup>+12</sup>, SVL<sup>+17</sup>, WZA10]. **low-frequency** [LRS<sup>+17</sup>]. **low-speed** [MTHB13]. **low-virulence** [BLF<sup>+16</sup>]. **low-virulent** [WZA10]. **Lowe** [KCD<sup>+14</sup>, RBS<sup>+16</sup>, RSF<sup>+17</sup>]. **Lower** [HGPD11, ACA<sup>+16</sup>, OP14]. **LPS** [UKS<sup>+18</sup>, ZZQ<sup>+19</sup>]. **LPS-induced** [ZZQ<sup>+19</sup>]. **LR** [FBK<sup>+16</sup>]. **LS** [DJR<sup>+19</sup>]. **LS-12** [DJR<sup>+19</sup>]. **lucioerca** [BAH<sup>+16</sup>]. **lucius** [Řeh13]. **lugubris** [PBBG19]. **Luminal** [RRO<sup>+13</sup>]. **luminescent** [HBVB16]. **Lumpfish** [TDS<sup>+19</sup>, ATP<sup>+16</sup>, CCH<sup>+19</sup>, ESBE18, ELI<sup>+17</sup>, EDV<sup>+18</sup>, ESV<sup>+19b</sup>, GVC<sup>+19</sup>, JHRW17, MLRS<sup>+17</sup>, PAM<sup>+19</sup>, PB18, RVC18, SBP<sup>+19</sup>, SFBW<sup>+17</sup>]. **lumpsucker** [AGR<sup>+16</sup>]. **lumpsuckers** [EWH<sup>+19</sup>]. **lumpus** [ATP<sup>+16</sup>, AGR<sup>+16</sup>, CCH<sup>+19</sup>, ESBE18, EWH<sup>+19</sup>, ELI<sup>+17</sup>, EDV<sup>+18</sup>, ESV<sup>+19b</sup>, GVC<sup>+19</sup>, JHRW17, MLRS<sup>+17</sup>, PAM<sup>+19</sup>, PB18, SBP<sup>+19</sup>, SFBW<sup>+17</sup>, TDS<sup>+19</sup>]. **lungfish** [RSR<sup>+18</sup>, SFF<sup>+17</sup>]. **lupin** [AA10]. **Lupinus** [AA10]. **luteus** [dJDAVRGM<sup>+18</sup>]. **Lutjanus** [CLWJ13, HCW<sup>+16</sup>, ZWY<sup>+11</sup>]. **luxatus** [JMHK18]. **lymphocystis** [CVGR<sup>+13</sup>, CCME16, HHX<sup>+15</sup>, JKC<sup>+11</sup>, PHvdH12]. **Lymphocystivirus** [CVLJ<sup>+10</sup>]. **lymphocyte** [HCW<sup>+16</sup>]. **Lymphoid** [JJS<sup>+12</sup>, SCZM19]. **lymphoma** [KVC<sup>+16</sup>]. **Lymphosarcoma** [MCWL13]. **lysogenic** [HY16]. **lysozyme** [LSC<sup>+14</sup>].

**M** [ESV<sup>+19b</sup>, PMW<sup>+10</sup>]. **M.** [FMT<sup>+14</sup>, JCN<sup>+14</sup>, PBW<sup>+18</sup>, ZYW<sup>+10</sup>]. **macarellus** [BHW<sup>+11</sup>]. **Maccullochella** [SJT14]. **mackerel** [BHW<sup>+11</sup>, ONGQ<sup>+14</sup>, RGMGG<sup>+18</sup>]. **maclovinus** [GOM<sup>+19</sup>]. **Macquaria** [HBB14, JFWH19]. **Macrobrachium** [FMT<sup>+14</sup>, HO13, LYKN18, RSGB<sup>+14</sup>, SPP<sup>+18</sup>, WCW16a, ZSZF16]. **macrocephalus** [SRT<sup>+14</sup>]. **macrochirus** [BMA13, DWL<sup>+17</sup>, LEM<sup>+19</sup>, LDEH17, LFL19]. **macroglobulin** [LSA<sup>+15</sup>]. **macrophages** [DRG<sup>+17</sup>, UKS<sup>+18</sup>, WYZ<sup>+19</sup>]. **macropinocytosis** [LASRA<sup>+19</sup>]. **macropomum** [OMB<sup>+19</sup>, ANB<sup>+19</sup>, FCS<sup>+18</sup>, PdSG<sup>+12</sup>, VDO<sup>+18b</sup>, VDO<sup>+18a</sup>]. **macroscopic** [LWMT10]. **macrostomum** [BCM<sup>+17</sup>]. **macrostomus**

[IOO15]. **maculata** [CLZ<sup>+12</sup>, LGC<sup>+19</sup>]. **maculatus** [SDJH16]. **Magath** [RGMGG<sup>+18</sup>]. **magellanicus** [BRL<sup>+13</sup>]. **mahseer** [SM14]. **main** [RMS<sup>+13</sup>]. **Maine** [PJZB19]. **mainland** [CWW<sup>+18</sup>, ZCC18]. **maintained** [TIK<sup>+14a</sup>]. **maintenance** [KAEM13]. **major** [CPB<sup>+15</sup>, SSO<sup>+14</sup>, PdLC19, KLW10]. **make** [DPADO16]. **mako** [ABM<sup>+15</sup>]. **Malacosporea** [MJ17]. **Malaysia** [ARR<sup>+18</sup>, AAZS<sup>+15</sup>, AZSI<sup>+12</sup>, SZSFN<sup>+14</sup>, SSO<sup>+14</sup>]. **MALDI** [PSVK<sup>+18</sup>, PSCFB<sup>+18</sup>]. **MALDI-TOF** [PSVK<sup>+18</sup>, PSCFB<sup>+18</sup>]. **male** [CXX16, DBS12, RhAS<sup>+15</sup>, VMCM14, ZDWH18]. **malformation** [WBE<sup>+17</sup>]. **Malformations** [MGM<sup>+16</sup>]. **malformed** [RHVG<sup>+19b</sup>]. **Malmberg** [HHO14, WKK12]. **Maltoporin** [YZW<sup>+19</sup>]. **mammalian** [CGCAH12]. **Man** [FMT<sup>+14</sup>, RSGB<sup>+14</sup>]. **management** [ALG15, BPK<sup>+17</sup>, CHF<sup>+12</sup>, JMD<sup>+18</sup>, MSCH14, SMR16, SFF<sup>+17</sup>]. **mandarin** [KHC<sup>+18</sup>, SWD<sup>+14</sup>, TIK<sup>+14a</sup>, TQW<sup>+14</sup>]. **Manday** [ABM<sup>+15</sup>]. **mandelii** [LDEH17]. **mane** [PÁD18]. **Mangifera** [AA10]. **mango** [AA10]. **manifestations** [JJB15]. **manifesting** [AAZS<sup>+15</sup>]. **Manila** [ACYC10, FBVC16]. **mannan** [TMC<sup>+12</sup>]. **marbled** [LSC<sup>+14</sup>, LSA<sup>+15</sup>, PWHW18b, PWW19, WZL<sup>+11</sup>, Wen16, WCW<sup>+16b</sup>]. **marcescens** [CBC<sup>+13</sup>]. **marginatus** [ALG15, KCD<sup>+14</sup>, PMP<sup>+18</sup>, PDdC<sup>+14</sup>, RBS<sup>+16</sup>, RSF<sup>+17</sup>]. **mariculture** [YLX<sup>+19a</sup>]. **marine** [ADMF15, ACYC10, BWNS<sup>+11</sup>, GFB<sup>+13</sup>, GFM<sup>+11</sup>, GFR<sup>+12</sup>, HSA17, HY16, JCN<sup>+13</sup>, JCN<sup>+14</sup>, JJB15, KPT<sup>+11</sup>, KRFT14, KCL14, LTC16, LTC17, LHW<sup>+15a</sup>, MR11, RCD<sup>+17</sup>, SFU<sup>+13</sup>, WDM<sup>+15</sup>]. **marinum** [APP<sup>+17</sup>, BVG<sup>+10</sup>, CBW19, CSSWK10, PBW<sup>+18</sup>, SMF<sup>+10</sup>, Sla14, SMJ<sup>+14</sup>]. **marisflavi** [LQL<sup>+10</sup>]. **maritimum** [BMH<sup>+19</sup>, CSCCA14, FSG<sup>+12</sup>, FSV<sup>+18</sup>, FSB<sup>+18c</sup>, MMS<sup>+16</sup>, VFB<sup>+12</sup>]. **Mark** [GRB<sup>+17</sup>, GMB<sup>+17</sup>, CSS<sup>+16</sup>, MTG<sup>+10</sup>]. **markedly** [LF18]. **marker** [DCMM13, DBM<sup>+14</sup>, MNG<sup>+18</sup>]. **markers** [TDH<sup>+10</sup>, ZFZ<sup>+11</sup>]. **marmorata** [PWHW18b, WCW<sup>+16b</sup>]. **marmoratus** [WZL<sup>+11</sup>]. **marron** [ABF15]. **Marsupenaeus** [ESA<sup>+10</sup>, MTK<sup>+10</sup>]. **Marteiliosis** [GKO<sup>+14</sup>]. **Masenia** [DAO19]. **masou** [IOO15]. **masquinongy** [Ano12c, KF10b, MF12]. **Mass** [XQS<sup>+15</sup>, AHB<sup>+17</sup>, BRMG13, FSC<sup>+16</sup>, GJM<sup>+15</sup>, LLC<sup>+11</sup>, LXL<sup>+18</sup>, MMG<sup>+11</sup>, RHZA<sup>+16</sup>]. **masses** [VPCM19]. **materials** [HH13a]. **matters** [PPK<sup>+13</sup>]. **mauve** [MLMR16]. **Mawsonascaris** [SDZN19]. **maximus** [HMW11, JCS11, LBF<sup>+14</sup>, MBB12, QXW14, SODB16, WM19, dOAPLá<sup>+17</sup>]. **may** [LC17, MBB12, PMH<sup>+11</sup>, WLX<sup>+10</sup>]. **Mayer** [FŠK<sup>+19</sup>]. **MBV** [RDN<sup>+12</sup>]. **McCulloch** [KRD<sup>+17</sup>, LLH<sup>+14b</sup>]. **MCP** [MNG<sup>+18</sup>]. **MCP43** [FMT<sup>+14</sup>]. **MCsialec** [ACYC10]. **MDA5** [NSE<sup>+17</sup>]. **meagre** [EKS<sup>+13</sup>]. **meal** [MTLP<sup>+18b</sup>]. **means** [CJB<sup>+15</sup>]. **measure** [RHS<sup>+12</sup>]. **measured** [JBO<sup>+15</sup>]. **measures** [NWMK16, TJR<sup>+18</sup>]. **mechanism** [WYZ<sup>+19</sup>, YLX<sup>+19b</sup>]. **Mechanisms** [ZCQF15, BAMYAH19, DLP<sup>+13</sup>, JBO<sup>+15</sup>]. **Medaka** [KTK17]. **media** [MB17, RSF<sup>+17</sup>, YSV<sup>+13</sup>]. **mediate** [LC17]. **mediated** [HJOK11, JOF<sup>+19</sup>, JYZ<sup>+14</sup>, KTN<sup>+16</sup>, LLWL15, MSI<sup>+15</sup>, XXL<sup>+19</sup>].

**medicated** [TNK12, dOAPL<sup>+</sup>17]. **medicinal** [AHH16]. **Mediterranean** [EKS<sup>+</sup>13, GFB<sup>+</sup>13, PMP<sup>+</sup>18, RGMGG<sup>+</sup>18]. **medium** [CLW<sup>+</sup>11, CLT<sup>+</sup>14, KAEMSEM13]. **megalocytivirus** [JKH<sup>+</sup>17, JJV<sup>+</sup>15, KHC<sup>+</sup>18, MNG<sup>+</sup>18, NSC<sup>+</sup>15]. **Megalocytivirus-infected** [JJV<sup>+</sup>15]. **megalocytiviruses** [GJK<sup>+</sup>11]. **Megalops** [BCW<sup>+</sup>15]. **Mekong** [BAD<sup>+</sup>12]. **Melaleuca** [BSD<sup>+</sup>18c, VGI<sup>+</sup>16]. **melamine** [PNBK13, PCK<sup>+</sup>15]. **melanin** [LAN<sup>+</sup>14]. **Melanized** [BHO<sup>+</sup>19]. **Melanogrammus** [JHM<sup>+</sup>18]. **melanoma** [RhAS<sup>+</sup>15]. **melanomacrophage** [PSZ<sup>+</sup>14]. **melanops** [PSK<sup>+</sup>12]. **melanopterus** [PC17, RTM<sup>+</sup>15]. **melanotic** [RVB13]. **melapterus** [HSGD11]. **melas** [BPF<sup>+</sup>18]. **Melh** [YMBE13]. **melleni** [RBAT<sup>+</sup>17]. **melops** [SRM<sup>+</sup>18]. **melting** [TCF<sup>+</sup>19]. **member** [UN10]. **members** [GAC10]. **membrane** [CLWJ13, HGW<sup>+</sup>19, JSAB<sup>+</sup>19, KREM14, NNC<sup>+</sup>18, YHY<sup>+</sup>16]. **membrane-denitrification** [JSAB<sup>+</sup>19]. **membranes** [AI11]. **membras** [GJVT<sup>+</sup>11]. **Memoriam** [EW17]. **mercenariae** [RAVC18]. **mercenariae-like** [RAVC18]. **mercury** [VMCM14]. **merguiensis** [OLC11, OLC11]. **mesopotamicus** [CMSHS16, VGI<sup>+</sup>16]. **metabolic** [OP14, TvWO<sup>+</sup>16, UKS<sup>+</sup>18]. **metabolite** [FHZ<sup>+</sup>16]. **Metabolomic** [KOI<sup>+</sup>14, HZJ<sup>+</sup>19, LRMN17]. **metabolomics** [ZCJ<sup>+</sup>18]. **Metabronema** [SBK<sup>+</sup>13]. **metacercariae** [FŠK<sup>+</sup>19, MGM<sup>+</sup>16]. **Metanophrys** [SPP<sup>+</sup>18]. **Metastatic** [PC17]. **metazoan** [MS16]. **Methacarn** [FMM<sup>+</sup>19]. **methaemoglobinemia** [MMD<sup>+</sup>12]. **method** [KKT<sup>+</sup>18a, KKKA17, MWRSK17, Mor12, PSR<sup>+</sup>11, VLVS<sup>+</sup>16]. **methodology** [PPK<sup>+</sup>13]. **Methods** [JSJR<sup>+</sup>18, AGB<sup>+</sup>19, CBLN13, CMS<sup>+</sup>17, EA18, FMT<sup>+</sup>14, FCM<sup>+</sup>19, JSJR<sup>+</sup>19, KJW<sup>+</sup>17, MTAB15, NJK<sup>+</sup>17, NCNB18, PHvdH12, VDH19, WCW16a, XZZ16, ZCCN13, ZCC<sup>+</sup>15]. **metritis** [BA13]. **Mexican** [NNCLGC<sup>+</sup>11]. **Mexico** [BB11, dJDAVRGM<sup>+</sup>18, EEMCEGSP16, OGI<sup>+</sup>18, OCLI<sup>+</sup>19, RPGCIG17]. **meyeni** [CDM<sup>+</sup>16]. **MGB** [LGC<sup>+</sup>19]. **MH** [YYW<sup>+</sup>14]. **MHC** [LLZW14, RBM<sup>+</sup>16]. **MI03** [KF10b]. **Miamiensis** [LPC<sup>+</sup>18]. **MIC** [SEK<sup>+</sup>16, YVM<sup>+</sup>14]. **Michigan** [BWB<sup>+</sup>17, LST<sup>+</sup>12]. **miconazole** [SSSP18]. **microalga** [JDRM17]. **microbe** [LKS<sup>+</sup>13]. **microbial** [JSAB<sup>+</sup>19]. **microbiome** [DCZ<sup>+</sup>17]. **microbiota** [JKL<sup>+</sup>13, KOB<sup>+</sup>17, STIG17]. **Micrococcus** [dJDAVRGM<sup>+</sup>18]. **Microcotylidae** [TAQ<sup>+</sup>10]. **microcystin** [FBK<sup>+</sup>16]. **microcystin-LR** [FBK<sup>+</sup>16]. **microcystins** [KPM<sup>+</sup>11]. **microdilution** [GCW17, YVM<sup>+</sup>14]. **microdissection** [WNL<sup>+</sup>12]. **Microencapsulation** [GCNB16]. **microflora** [BT14]. **microparasites** [BHT<sup>+</sup>17]. **Micropogonias** [MPM16]. **microporidian** [XLZ<sup>+</sup>17]. **Micropterus** [CGAS19, PBBG19, ZLX<sup>+</sup>19]. **microsatellite** [DCMM13]. **Microscopic** [SMS<sup>+</sup>19, BCM<sup>+</sup>17, LWMT10]. **microscopy** [CGCAH12]. **Microsporida** [FYO<sup>+</sup>11]. **Microsporidia** [ATP<sup>+</sup>16, KSAB<sup>+</sup>14, PG16]. **microsporidian** [ACSB<sup>+</sup>19, DML<sup>+</sup>16, DCL<sup>+</sup>17, MVM<sup>+</sup>18, MRSC13, MKH<sup>+</sup>11, ZCC18]. **Microsporidians** [LRAP17]. **microsporidiosis** [XLZ<sup>+</sup>17]. **middle**

[SMS<sup>+</sup>10]. **Midichloriaceae** [CSS<sup>+</sup>16]. **migrating** [BHT<sup>+</sup>17, JCN<sup>+</sup>13, JCN<sup>+</sup>14, KRFT14]. **migratory** [HGH<sup>+</sup>18]. **Mikrogeophagus** [LFSZ18]. **Miller** [RAM<sup>+</sup>17]. **Milne** [NRMS14, ZB12, CG11, SQC<sup>+</sup>14]. **mimic** [LRB<sup>+</sup>17]. **mimicus** [ZZC<sup>+</sup>17]. **Minchinia** [RAVC18]. **mineralization** [PC17]. **mineralized** [TPD<sup>+</sup>19]. **minibicornis** [BLP10]. **Minimal** [TRS19, OM10]. **minimum** [YVM<sup>+</sup>14]. **minnow** [AHHR<sup>+</sup>10, CXW<sup>+</sup>19, JBGP11, MGN<sup>+</sup>16, WBD<sup>+</sup>10b]. **minnows** [PPF<sup>+</sup>12]. **minor** [PJZB19]. **minus** [DT16]. **miR** [FBK<sup>+</sup>16]. **miR-122-5p** [FBK<sup>+</sup>16]. **Misgurnus** [ZWL<sup>+</sup>16]. **Mississippi** [LEM<sup>+</sup>19]. **Mitchell** [FHD13, PHvdH12, SJT14, SGQ<sup>+</sup>15]. **Mitchill** [Ano12c, BB11, CBFM16, DGS<sup>+</sup>14, GRP<sup>+</sup>15, KF10b, KHLL16, MMD<sup>+</sup>12, MF12, OEG<sup>+</sup>13, SAD<sup>+</sup>12, VBL<sup>+</sup>16]. **mitochondrial** [CXW<sup>+</sup>19, YEK<sup>+</sup>17]. **mitochondrial-targeting** [CXW<sup>+</sup>19]. **mitten** [DML<sup>+</sup>16, DCZ<sup>+</sup>17, DCL<sup>+</sup>17, FGJ<sup>+</sup>10, SCS<sup>+</sup>12, ZB12]. **Mixed** [FSV<sup>+</sup>14, ESA<sup>+</sup>10, KBD13]. **model** [CAJD<sup>+</sup>18, CKvGJB17, EPCSBP18, GFM<sup>+</sup>11, KSAB<sup>+</sup>14, MSC<sup>+</sup>17, NSS<sup>+</sup>17, RAM<sup>+</sup>19, SCF<sup>+</sup>13, SZM<sup>+</sup>15, SSG<sup>+</sup>19, VMBGIC19, dOAPLá<sup>+</sup>17]. **Modelling** [SSA13, Gis18, GCGR13, RHTC19b, SDI<sup>+</sup>18]. **models** [BVK<sup>+</sup>16, Buc12, PYSS19]. **modified** [SLKE10]. **modulated** [KPM<sup>+</sup>11]. **modulates** [FVAVMGE18, GRT12, SPCR<sup>+</sup>19]. **Modulation** [BSB<sup>+</sup>18, PBC15]. **Moebius** [OBR<sup>+</sup>14]. **Molecular** [BLL<sup>+</sup>17, BCM<sup>+</sup>17, CSS<sup>+</sup>16, DTM<sup>+</sup>10, EEMCEGSP16, FMA<sup>+</sup>19, HCW<sup>+</sup>16, KYK<sup>+</sup>12, KDA<sup>+</sup>18, LYKN18, NSE<sup>+</sup>17, NYRS12, PLC<sup>+</sup>19b, PPE<sup>+</sup>18, RSMH09, SHKF16, SPKS17, SRD<sup>+</sup>16, YYF<sup>+</sup>10, ZQB<sup>+</sup>11, BCL<sup>+</sup>19, DPTFC10, EAM<sup>+</sup>13, GAC10, IAR<sup>+</sup>10, LLC<sup>+</sup>11, LRB<sup>+</sup>17, MFS<sup>+</sup>17, MFES18, OBR<sup>+</sup>14, PHvdH12, PAZ18, RHZA<sup>+</sup>16, RCGGM15, SCD19, STIG17, SSO<sup>+</sup>14, VDH19, VGP<sup>+</sup>18, YLW<sup>+</sup>14, ZCC<sup>+</sup>15]. **molluscan** [MMG<sup>+</sup>11]. **molluscs** [VGP<sup>+</sup>18]. **monitored** [BKD17]. **Monitoring** [SNK<sup>+</sup>19, AGB<sup>+</sup>19, EWRH13, SFL<sup>+</sup>16]. **monoclonal** [CCLL16, HLC<sup>+</sup>15, KJW<sup>+</sup>17, LCR<sup>+</sup>10, PSK<sup>+</sup>13]. **monodon** [RDN<sup>+</sup>12, CWW<sup>+</sup>18, DCM13, DBM<sup>+</sup>14, FSO<sup>+</sup>10, JJS<sup>+</sup>12, MCO11, PSK<sup>+</sup>13, RDN<sup>+</sup>12, SMS<sup>+</sup>10, STS<sup>+</sup>15, SRSF10]. **Monogenea** [HSHC<sup>+</sup>16, TAQ<sup>+</sup>10, YEK<sup>+</sup>17]. **monogenean** [FHD13, HKG<sup>+</sup>15, MWS17, PHVM13, TGJCH15, VDO<sup>+</sup>18b]. **monogeneans** [ANB<sup>+</sup>19, VDO<sup>+</sup>18a]. **monophosphate** [VSS17]. **monstrosa** [DRdS<sup>+</sup>10]. **moray** [BCG<sup>+</sup>17, CHF<sup>+</sup>12]. **morbidity** [HCCM12]. **Moreau** [LPVGL<sup>+</sup>10]. **morhua** [BSWS11, BMGS17, BK12, FvdMF<sup>+</sup>18, GIW<sup>+</sup>11, GGGM14, HLHS11, HKD<sup>+</sup>10, HFKF17, MVM<sup>+</sup>18, MBB12, OBD10, PG16, RBWR<sup>+</sup>15, Sam10, ZCP12]. **moribund** [OBR<sup>+</sup>14, SWE<sup>+</sup>19]. **moringa** [CHF<sup>+</sup>12]. **Moritella** [BGG11, ESBE18]. **Morone** [DBS12, SBM<sup>+</sup>11]. **Moronidae** [RRC<sup>+</sup>17]. **morphogenesis** [GFS<sup>+</sup>14, HFT<sup>+</sup>12, MBT<sup>+</sup>17]. **Morphological** [BOH<sup>+</sup>12, PMBM13, RGMGG<sup>+</sup>18, TPD<sup>+</sup>19, VMBGIC19, WNMK<sup>+</sup>16, BC11, SDZN19]. **Morphology**

[NHM<sup>+</sup>10, YMBE13, CHWM<sup>+</sup>19, KSM<sup>+</sup>17, KOS<sup>+</sup>10, YLW<sup>+</sup>14].  
**morphometric** [BC11]. **morphometry** [SMS<sup>+</sup>18]. **Morphopathological** [VFB<sup>+</sup>12]. **morphotypes** [DSL16]. **mortalities** [AHB<sup>+</sup>17, GJM<sup>+</sup>15, KCD<sup>+</sup>14, MBB12, NFF<sup>+</sup>17, RHZA<sup>+</sup>16, SBM<sup>+</sup>11, VJWC<sup>+</sup>18, ZSZF16].  
**Mortality** [ABM<sup>+</sup>15, CGP<sup>+</sup>19, DABO<sup>+</sup>17, SDM<sup>+</sup>19, SKJ13, SRT<sup>+</sup>14, TJB<sup>+</sup>15, BPF<sup>+</sup>18, BRMG13, BGC<sup>+</sup>17, BPK<sup>+</sup>17, BVT<sup>+</sup>18, BVL<sup>+</sup>18, CRAG<sup>+</sup>12, DTJ<sup>+</sup>17, FSC<sup>+</sup>16, HCCM12, HBB14, HB12, JCN<sup>+</sup>13, JQK14, JJV<sup>+</sup>15, KHL16, KAF<sup>+</sup>19, KRFT14, LEM<sup>+</sup>19, LXL<sup>+</sup>18, LF16, MLMR16, MMG<sup>+</sup>11, MMW<sup>+</sup>15, NNCLGC<sup>+</sup>11, PTM<sup>+</sup>19, RHB<sup>+</sup>15, SPP<sup>+</sup>18, SKGE13, TMC<sup>+</sup>12, XQS<sup>+</sup>15, JCN<sup>+</sup>14]. **MOS** [TMC<sup>+</sup>12]. **mosquito** [APG<sup>+</sup>11].  
**mossambica** [MWS17]. **mossambicus** [AZSSZZ13, NMV<sup>+</sup>19, TvWO<sup>+</sup>16, vD14]. **most** [VCOD17]. **motile** [DSJA18, PAZ18, TALA11]. **motility** [DSSB19]. **moulting** [TTL<sup>+</sup>16].  
**mounds** [ARL<sup>+</sup>17]. **mouthrot** [FSV<sup>+</sup>18]. **moved** [GMN12]. **movements** [GWM12, TWJP10, WMM<sup>+</sup>16]. **Mozambique** [DAO19, TvWO<sup>+</sup>16, vD14].  
**mRNA** [IPW<sup>+</sup>13, RBM<sup>+</sup>16, SJSA<sup>+</sup>14]. **MS** [PSVK<sup>+</sup>18, ZCJ<sup>+</sup>18].  
**Mucoadhesive** [dSCBdS<sup>+</sup>16]. **mucosa** [VMBGIC19]. **Mucosal** [RBL<sup>+</sup>11, JSAH<sup>+</sup>18, PDLW17]. **mucous** [BGD<sup>+</sup>17, DPC<sup>+</sup>10, LDÁM14, PSR<sup>+</sup>11, PPK<sup>+</sup>13]. **mucus** [FMM<sup>+</sup>19, GBSF12, JSJR<sup>+</sup>19, MMS<sup>+</sup>16, PJU<sup>+</sup>13, SLPB18, VCN<sup>+</sup>10]. **mud** [LQY11]. **Müller** [CDM<sup>+</sup>16]. **Mugil** [MVWS13, PMBM13]. **mugilid** [DCG18]. **Müller** [HLHS11]. **mullet** [PMBM13, VPS<sup>+</sup>14]. **mulletts** [APP<sup>+</sup>17]. **multi** [LCZ<sup>+</sup>18, RKK<sup>+</sup>19]. **multi-drug-resistant** [RKK<sup>+</sup>19].  
**multi-organ** [LCZ<sup>+</sup>18]. **Multicentric** [DD15]. **multifactorial** [GTT<sup>+</sup>17].  
**multifiliis** [AJLK<sup>+</sup>18, AMRHM18, BSD<sup>+</sup>18a, CKvGJB17, vGJHS<sup>+</sup>11, vGJKR<sup>+</sup>17, XKBC12, XZZ16, YYW<sup>+</sup>14]. **Multilocus** [ACAS14, ISCF<sup>+</sup>19, NMM<sup>+</sup>18, RDW18, WMD<sup>+</sup>18, VJWC<sup>+</sup>18]. **Multiple** [OBF12, TSK<sup>+</sup>19, VPCM19, AH16, JQK14, ZDWH18]. **Multiplex** [LGS19, HRL15, LML<sup>+</sup>13, LFH<sup>+</sup>11, NMM<sup>+</sup>18, TSK<sup>+</sup>19, THW<sup>+</sup>12, VLVS<sup>+</sup>16].  
**multiplication** [TKS<sup>+</sup>18]. **multispecies** [SFF<sup>+</sup>17]. **multivalent** [ZXW<sup>+</sup>12].  
**Multivalvulida** [TOK<sup>+</sup>16]. **multiyear** [GM11]. **Muraena** [CHF<sup>+</sup>12].  
**Murray** [FHD13, SJT14]. **muscle** [BCBS<sup>+</sup>13, BHO<sup>+</sup>19, FGJ<sup>+</sup>10, GRT12, LAN<sup>+</sup>14, LWZ<sup>+</sup>18, WHR<sup>+</sup>18, ZDWH18]. **muskellunge** [Ano12c, KF10b, MF12]. **mussel** [BRL<sup>+</sup>13, HBH<sup>+</sup>19]. **mussels** [GKO<sup>+</sup>14].  
**Mustelus** [MS16]. **mutagenesis** [MSG<sup>+</sup>18]. **mutants** [EAN<sup>+</sup>18, GTGCM19, HBVB16, OFA11, VSS17, WBF<sup>+</sup>10]. **Mya** [MMD16].  
**Mycobacteria** [KZJ<sup>+</sup>17, SKB10, MSK<sup>+</sup>12, NHM<sup>+</sup>10]. **Mycobacterial** [DIH<sup>+</sup>16, FSV<sup>+</sup>14, PSS17, ZHFC11]. **Mycobacteriosis** [APP<sup>+</sup>17, AFA<sup>+</sup>12, ACM<sup>+</sup>14, CDW17, CSSWK10, EDSL11, FFLC17, LRC<sup>+</sup>18, ONGQ<sup>+</sup>14, SFF<sup>+</sup>17, VPS<sup>+</sup>14, ZCP12]. **Mycobacterium** [APP<sup>+</sup>17, ACM<sup>+</sup>14, BVG<sup>+</sup>10, CBW19, CSSWK10, JK12, LRC<sup>+</sup>18, PBW<sup>+</sup>18, RFA<sup>+</sup>14, SMF<sup>+</sup>10, Sla14, SMJ<sup>+</sup>14, ZNHC11a, ZNHC11b].  
**mycoides** [OSAA18]. **mycosis** [ŘKH18]. **myeloperoxidase** [BSSB18, YK13]. **Myers** [LFSZ18]. **mykiss**

[ASA10, ASHZ<sup>+12</sup>, AOAH13, AHHR<sup>+10</sup>, AJLC<sup>+16</sup>, ABT<sup>+14</sup>, AA10, AMA11, BSW17, BSPS<sup>+18</sup>, BCLM<sup>+19</sup>, BHA<sup>+11</sup>, BE19, BA14, BLFC12, CSS<sup>+16</sup>, CHAB10, CMH<sup>+17</sup>, CPB<sup>+15</sup>, CLS<sup>+15</sup>, DS10, DPTFC10, DPTCF10, DMP10, DJR<sup>+19</sup>, DdRTM13, DdRCP13, DPADO16, DSJA18, DT16, GCNB16, GTH11, GPFAG19, GDW<sup>+15</sup>, GMC<sup>+16b</sup>, HKBD15a, HKBD15b, HJN<sup>+19</sup>, JKL<sup>+13</sup>, JDH<sup>+18</sup>, JML19, vGJHS<sup>+11</sup>, vGJKR<sup>+17</sup>, KSM<sup>+17</sup>, LPA<sup>+10</sup>, LLS<sup>+11</sup>, MBOC19, MNF<sup>+15</sup>, MSC<sup>+17</sup>, MCSM17, MLEM16, MTLP<sup>+18b</sup>, NOV<sup>+11</sup>, NDA10, OP14, OBFR12, OBD<sup>+11</sup>, OSAA18, OLT<sup>+10</sup>, PDLW17, PSBG<sup>+11</sup>, PLCC11, QPB<sup>+16</sup>, RSB13, ŘKH16, RCGGM15, RHB<sup>+15</sup>, SHJ<sup>+12</sup>, SPCR<sup>+19</sup>, SCR<sup>+15</sup>, SKJ13, SON<sup>+18</sup>, VSS17, XKB12, YDO<sup>+16</sup>]. **Myliobatiformes** [BB11]. **myocardial** [WNL<sup>+12</sup>]. **myocarditis** [BWNS<sup>+11</sup>, JNS<sup>+19</sup>, SRM<sup>+18</sup>, SNK<sup>+19</sup>, TB12, TCM<sup>+19</sup>, WNSAL12, WNAF<sup>+13</sup>, WNAJ<sup>+16</sup>]. **myonecrosis** [HMOV<sup>+17</sup>, YLSW14]. **myopathy** [BMT<sup>+15</sup>]. **Mytilus** [BRL<sup>+13</sup>]. **myxidiosis** [MBD16]. **Myxobolidae** [LRB<sup>+17</sup>, RKPG16, SGQ<sup>+15</sup>]. **Myxobolus** [FCJH19, HAP<sup>+10</sup>, ME12, MKKM15, SBW<sup>+18</sup>, SGQ<sup>+15</sup>, YLW<sup>+14</sup>, YYF<sup>+10</sup>, ZWLG10, ZYW<sup>+10</sup>]. **myxoma** [KHS11]. **myxosporea** [YLW<sup>+14</sup>, CB13, ERÁpSB14, JNN<sup>+11</sup>, LJHG14, LXL<sup>+18</sup>, RRC<sup>+17</sup>, SGQ<sup>+15</sup>, SSJ<sup>+19</sup>, YMBE13]. **myxosporean** [KOI<sup>+14</sup>]. **Myxozoa** [MJ17, ATP<sup>+16</sup>, CB13, ERÁpSB14, JNN<sup>+11</sup>, KAEMSEM13, LXL<sup>+18</sup>, MSBB<sup>+16</sup>, ME12, SSJ<sup>+19</sup>, TOK<sup>+16</sup>, YMBE13]. **myxozoan** [EPCSBP18, SBW<sup>+18</sup>]. **myxozoans** [DCG18]. **Myxus** [MVWS13]. **Myzobdella** [PBBG19].

**n** [LJHG14, RRC<sup>+17</sup>, SDZN19, YMBE13, ZWLG10, dSdAdS<sup>+19</sup>]. **naïve** [BMK17]. **namaycush** [CMR<sup>+16</sup>]. **nanobubbles** [ITKH18]. **Nanoemulsion** [VDO<sup>+18a</sup>, VDO<sup>+18b</sup>]. **nanoencapsulated** [BSD<sup>+18c</sup>]. **nanoparticles** [ASHZ<sup>+12</sup>, dSCBdS<sup>+16</sup>, LLDL13, SSHEM11]. **Nanophyetus** [STF<sup>+15</sup>]. **National** [HGPD11, HOHG13, NSC<sup>+15</sup>]. **native** [ÇOÇ<sup>+16</sup>, GOM<sup>+19</sup>, MKKM15, RBR19, SLPB18]. **native-subunit** [ÇOÇ<sup>+16</sup>]. **nattectin** [LSA<sup>+15</sup>]. **nattereri** [EDSL11]. **Natural** [ATP<sup>+17</sup>, BFFA<sup>+12</sup>, BLdA<sup>+18</sup>, BRB<sup>+12</sup>, BHO<sup>+19</sup>, CCME16, CCMA<sup>+17</sup>, DMB<sup>+16</sup>, EA18, GRF14, KHC<sup>+18</sup>, KSA<sup>+10</sup>, LSC<sup>+14</sup>, MDF<sup>+17</sup>, OMO<sup>+15</sup>, SBH<sup>+16</sup>, SMJ<sup>+14</sup>]. **naturally** [AOAH13, BSD<sup>+18a</sup>, DMB<sup>+19</sup>, FFLC17, HGB<sup>+11</sup>, SSV<sup>+17</sup>]. **nauplii** [AHH16, TNK12]. **NB2011** [ZWG<sup>+17</sup>]. **Neagh** [MFES18]. **nearby** [MKI<sup>+15</sup>]. **nebulosus** [PHR14]. **necator** [CKJ<sup>+14</sup>]. **necrosis** [ASHZ<sup>+12</sup>, AOAH13, BLdA<sup>+18</sup>, BRMG13, Bin14, BPK<sup>+17</sup>, BAH<sup>+18</sup>, CCLGRM<sup>+17</sup>, CGW<sup>+19</sup>, CGG<sup>+10</sup>, DD18, DML<sup>+16</sup>, ECP<sup>+10</sup>, EBM<sup>+18</sup>, FE11, GFS<sup>+14</sup>, HSC<sup>+16</sup>, HKD<sup>+10</sup>, JHW17, JFWH19, JOF<sup>+19</sup>, JSK<sup>+10</sup>, JMS13, JJSJ15, KKK<sup>+18</sup>, KTN<sup>+16</sup>, KYB<sup>+15</sup>, KDA<sup>+18</sup>, KBD13, KWD<sup>+16</sup>, LASRA<sup>+19</sup>, LYL<sup>+18</sup>, LHW<sup>+15a</sup>, LCZ<sup>+18</sup>, LGJ19, LJGRI<sup>+10</sup>, LVADB17, LLL<sup>+13</sup>, MBOC19, MRN<sup>+19</sup>, MSI<sup>+15</sup>, MNM<sup>+18</sup>, MNM<sup>+19</sup>, MMH10, MMNL14, NPGA<sup>+19</sup>, NB10, OTN<sup>+12</sup>, OKS<sup>+13</sup>, OOO<sup>+11</sup>, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PBM<sup>+15</sup>, RWTB17, RSMH09, SJDC<sup>+13</sup>, SWD<sup>+14</sup>, SSO<sup>+14</sup>,



TIK<sup>+14a</sup>, TDS<sup>+19</sup>, VCOD17, XJL<sup>+19</sup>, XJL<sup>+15</sup>, YHY<sup>+16</sup>, ZJDL18, ZLN<sup>+17</sup>, ZDWH18]. **necrosis-induced** [BRMG13]. **necrotic** [DCV<sup>+14</sup>]. **needle** [TMWV14]. **negative** [THW<sup>+12</sup>]. **negatively** [BGRB14]. **Nematoda** [MWRSK17, MGH<sup>+14</sup>, MPM16, RGMGG<sup>+18</sup>, SDZN19, SBK<sup>+13</sup>].

### **Nematode**

[LZGZ16, BA13, DMD<sup>+17</sup>, FDST16, LFP<sup>+11a</sup>, LFP<sup>+11b</sup>, MWRSK17]. **nematodes** [Buc12]. **Nemeczek** [ZWLG10]. **Neobenedenia** [HSHC<sup>+16</sup>, MSCH14, RBAT<sup>+17</sup>, TGJCH15]. **Neoceratodus** [SFF<sup>+17</sup>]. **Neoechinorhynchidae** [OMB<sup>+19</sup>]. **Neoechinorhynchus** [OMB<sup>+19</sup>]. **neomycin** [ZCJ<sup>+18</sup>]. **neon** [SMS<sup>+19</sup>]. **Neoparamoeba** [CBLN13, CAS<sup>+18</sup>, CONN10, FGR<sup>+12</sup>, LTC16, LTC17, MCCN14, NBJ10, WNO<sup>+18</sup>]. **Neoplasia** [GMP<sup>+11</sup>, SGR<sup>+18</sup>, BCW<sup>+15</sup>, DIVC16, MMMD16, MMD16, RTM<sup>+15</sup>, SCZM19]. **neoplasm** [BWS<sup>+18</sup>]. **neoplastic** [HKF<sup>+16</sup>]. **Neotropical** [VDO<sup>+18b</sup>]. **Nephroblastoma** [RHSM<sup>+18b</sup>]. **nephrocalcinosis** [MVWS13]. **nephrolith** [LKT<sup>+13</sup>]. **nephrolithiasis** [LKT<sup>+13</sup>]. **Nereididae** [HVVV15]. **nerka** [BLP10, GMC<sup>+16a</sup>, LGJ19, TVK<sup>+19</sup>]. **nervous** [BRMG13, Bin14, CGG<sup>+10</sup>, FYO<sup>+11</sup>, HKD<sup>+10</sup>, JHW17, KKK<sup>+18</sup>, LYL<sup>+18</sup>, LHW<sup>+15a</sup>, MRN<sup>+19</sup>, MSI<sup>+15</sup>, OTN<sup>+12</sup>, OKS<sup>+13</sup>, TDS<sup>+19</sup>, XJL<sup>+19</sup>, ZLN<sup>+17</sup>, JFWH19]. **nested** [AOAH13]. **nested-PCR** [AOAH13]. **net** [TJR<sup>+18</sup>]. **Netherlands** [HSC<sup>+16</sup>]. **nettle** [AA10]. **network** [BSV<sup>+18</sup>]. **networks** [SVY<sup>+14</sup>]. **neural** [FvdMF<sup>+18</sup>, SSK17, WKW13]. **neurobehavioural** [SSK17]. **neurological** [SON<sup>+18</sup>]. **neurophila** [CB13]. **neurophilia** [CXK16, SSK17]. **neurophilus** [SGQ<sup>+15</sup>]. **neutralization** [CLC<sup>+17</sup>, GRF14]. **neutralizing** [Ano12c, MF12]. **neutrophil** [JBGP11]. **newborn** [BQP12]. **newly** [AZSSZZ13]. **next** [DWL<sup>+17</sup>, LMM<sup>+16</sup>]. **next-generation** [DWL<sup>+17</sup>, LMM<sup>+16</sup>]. **Nigella** [MA16]. **nigromaculatus** [BCT<sup>+17</sup>, GPWF19, SMS<sup>+19</sup>]. **Niimi** [LML12]. **Nile** [ACLP<sup>+19</sup>, ATP<sup>+17</sup>, AdOG<sup>+17</sup>, CCHL13, CLLF14, DTJ<sup>+17</sup>, FLCC<sup>+14</sup>, LLH<sup>+14a</sup>, LCZ<sup>+18</sup>, LLL<sup>+18a</sup>, MCW<sup>+18</sup>, NLF11, NYRS12, PYSS19, RHTC19b, RPMRLJ<sup>+19</sup>, SPKS17, SLKE10, SKGE13, SPS<sup>+19</sup>, WSA<sup>+18</sup>, XXL<sup>+19</sup>, YSHG18, ZKL<sup>+19</sup>]. **niloticus** [AZSSZZ13, ACLP<sup>+19</sup>, ATP<sup>+17</sup>, AdOG<sup>+17</sup>, CCHL13, CLLF14, CZL<sup>+19</sup>, DTJ<sup>+17</sup>, FLCC<sup>+14</sup>, FKB<sup>+14</sup>, KAS<sup>+18</sup>, KTP<sup>+15</sup>, LLH<sup>+14a</sup>, LCZ<sup>+18</sup>, LLX<sup>+19</sup>, LLL<sup>+18a</sup>, MCW<sup>+18</sup>, NLF11, NYRS12, PYSS19, RHTC19b, RPMRLJ<sup>+19</sup>, SPKS17, SLKE10, SL15, SKGE13, SPS<sup>+19</sup>, WSA<sup>+18</sup>, YSHG18, ZKL<sup>+19</sup>]. **nipponense** [ZSZF16]. **nitrate** [SSSP18]. **nitric** [YK13]. **nitrite** [MMD<sup>+12</sup>]. **nitrite-induced** [MMD<sup>+12</sup>]. **nitrogen** [BCW<sup>+15</sup>]. **NKEF** [BRB<sup>+12</sup>]. **nkomatiensis** [DAO19]. **NNV** [OTN<sup>+12</sup>, OKS<sup>+13</sup>]. **noatunensis** [CDM<sup>+13</sup>, KBTMH<sup>+16</sup>, PLC<sup>+19b</sup>, SKGE13, ATP<sup>+17</sup>, GIW<sup>+11</sup>, SPKS17]. **noble** [OSC<sup>+14</sup>]. **nocardia** [KPK<sup>+18</sup>, CXW<sup>+19</sup>, CCM<sup>+11</sup>, DSMC17, KLD<sup>+18</sup>, WCL<sup>+19</sup>]. **nocardiosis** [DSMC17, EKS<sup>+13</sup>, MYWC18]. **noctiluca** [MLMR16]. **NOD** [ZGY<sup>+18</sup>]. **noda** [MPJ<sup>+15</sup>]. **nodavirus** [FMT<sup>+14</sup>, HO13, IBFL19, LYKN18, RSGB<sup>+14</sup>, WCW16a]. **Nodular**

[QPB<sup>+16</sup>, DT16, LvD18, PGF<sup>+19</sup>]. **Non**  
 [CSCCA14, HO13, LMM<sup>+15</sup>, BMT<sup>+15</sup>, CMS<sup>+19</sup>, DZC<sup>+16</sup>, DLCF13,  
 DSLR16, FCM<sup>+19</sup>, GCNB18, GCM<sup>+18b</sup>, HRL15, HBVB16, LJGRI<sup>+10</sup>,  
 MSS<sup>+17a</sup>, MTAB15, RBR19, TALA11, TDLT<sup>+16</sup>, ZZC<sup>+17</sup>].  
**non-destructive** [BMT<sup>+15</sup>, CMS<sup>+19</sup>, LJGRI<sup>+10</sup>]. **Non-immune-related**  
 [LMM<sup>+15</sup>]. **non-invasive** [GCNB18]. **non-lethal** [FCM<sup>+19</sup>, MTAB15].  
**non-luminescent** [HBVB16]. **non-motile** [TALA11]. **non-native** [RBR19].  
**non-O139** [ZZC<sup>+17</sup>]. **non-pathogenic** [TDLT<sup>+16</sup>]. **Non-permissive**  
 [HO13]. **non-probed** [HRL15]. **non-respiratory** [GCM<sup>+18b</sup>]. **non-rhizoid**  
 [DSLR16]. **non-salmonid** [DLCF13]. **Non-specific** [CSCCA14]. **non-target**  
 [MSS<sup>+17a</sup>]. **non-virulent** [DZC<sup>+16</sup>]. **norepinephrine** [DSSB19].  
**Normandy** [BVL<sup>+18</sup>]. **North**  
 [GL18, EEMCEGSP16, RPGCIG17, RBR19, SBH<sup>+16</sup>, Tre12, DKBS17,  
 EKT<sup>+11</sup>, KPKP10, KWD<sup>+16</sup>, VCS<sup>+19</sup>, VDD<sup>+18</sup>, WMF14]. **north-east**  
 [RBR19]. **north-west** [SBH<sup>+16</sup>]. **north-western**  
 [EEMCEGSP16, RPGCIG17]. **Northeast** [STF<sup>+15</sup>]. **northern**  
 [BB11, BFFA<sup>+12</sup>, FSM<sup>+16</sup>, JMS13, KAST17, MIO<sup>+18</sup>, MMWK19, NJK<sup>+17</sup>,  
 Reh13, DIH<sup>+16</sup>, VCS<sup>+19</sup>]. **Northwest** [GCS<sup>+18</sup>]. **northwestern** [BOH<sup>+12</sup>].  
**Norway** [ATP<sup>+16</sup>, AGR<sup>+16</sup>, Ano10c, GFO<sup>+13</sup>, GGMG18b, GMG<sup>+19</sup>,  
 HKD<sup>+10</sup>, HST<sup>+13</sup>, HJT<sup>+16</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, JNN<sup>+11</sup>, JMS13, KAF<sup>+19</sup>,  
 MIO<sup>+18</sup>, MMWK19, NOV<sup>+11</sup>, SNK<sup>+19</sup>, TJB<sup>+15</sup>]. **Norwegian** [ATM<sup>+10</sup>,  
 HBS<sup>+14</sup>, JJB15, MJ17, SJK<sup>+14</sup>, SVY<sup>+14</sup>, SKJ13, TES16, WNAF<sup>+13</sup>].  
**notata** [OBR<sup>+14</sup>]. **Notropis** [LRB<sup>+17</sup>, MGN<sup>+16</sup>, HAP<sup>+10</sup>]. **nov**  
 [CPP14, SPV<sup>+18</sup>, VDH19]. **Nova** [SCD19, DSMC17]. **Novel** [PSR<sup>+11</sup>,  
 TALA11, BTC<sup>+17</sup>, BVL<sup>+18</sup>, CCW<sup>+15</sup>, CAJD<sup>+18</sup>, DPMK12, DLLB<sup>+18</sup>,  
 DXX<sup>+15</sup>, DKBS17, FFLC17, FNISE12, GFS<sup>+14</sup>, HHX<sup>+15</sup>, JKS<sup>+13</sup>, LDA<sup>+19</sup>,  
 MFES18, PWW19, PKLH19, PPK<sup>+13</sup>, RAM<sup>+18</sup>, RRO<sup>+13</sup>, RSF<sup>+17</sup>,  
 SPTDEE<sup>+15</sup>, VLVS<sup>+16</sup>, WZL13, WZQ<sup>+16</sup>, WCW<sup>+16b</sup>, YSV<sup>+13</sup>, YLX<sup>+19a</sup>].  
**novemaculeata** [JFWH19]. **NsHLP** [WCL<sup>+19</sup>]. **nuclear**  
 [DMD<sup>+17</sup>, TIK<sup>+14b</sup>]. **nucleophila** [ACSB<sup>+19</sup>]. **Nucleospora** [ATP<sup>+16</sup>].  
**Nucleotide** [ZGY<sup>+18</sup>, CPB<sup>+15</sup>, FCL<sup>+19</sup>, IBFL19]. **Nucleotide-binding**  
 [ZGY<sup>+18</sup>]. **number** [ACAS14, GLK<sup>+16</sup>, HZP<sup>+12</sup>, RWTB17]. **numbers**  
 [HZP<sup>+12</sup>, PFC<sup>+13</sup>, TES16]. **nutans** [HDC18]. **nutrient** [BCLM<sup>+19</sup>].  
**Nutrition** [OT12, JHRW17]. **nutritional** [HWO<sup>+17</sup>]. **NW**  
 [DIVC16, RAVC18]. **Nyeri** [MNM<sup>+19</sup>]. **NZ** [BMH<sup>+19</sup>]. **NZ-RLO**  
 [BMH<sup>+19</sup>].

**O1** [SON<sup>+18</sup>, ZZC<sup>+17</sup>]. **O1/** [ZZC<sup>+17</sup>]. **O139** [ZZC<sup>+17</sup>]. **O2b**  
 [AHTCA<sup>+17</sup>]. **obese** [TvWO<sup>+16</sup>]. **Obituary** [WR10]. **object** [GAVC16].  
**oblongum** [SAD<sup>+12</sup>]. **observation** [RSR<sup>+18</sup>]. **observations**  
 [ADR11, BQP12, BMA13, SHW<sup>+11</sup>]. **observe** [GTH11]. **obtained**  
 [AGFG19, JMS13, OGI<sup>+18</sup>]. **Obtainment** [PVIM18]. **Occurrence**  
 [BCL<sup>+19</sup>, LKT<sup>+13</sup>, PGF<sup>+19</sup>, RAM<sup>+18</sup>, HMV<sup>+17</sup>, RSB13, RSF<sup>+17</sup>].  
**occurring** [ADR11, DMB<sup>+19</sup>]. **Ocean**

[ASW16, CBM<sup>+17</sup>, BOH<sup>+12</sup>, CNN<sup>+10</sup>, STF<sup>+15</sup>, VCS<sup>+19</sup>]. **ocellaris** [SBK<sup>+15</sup>]. **ocellatum** [JK12, MSS<sup>+17b</sup>, YB17]. **ocellatus** [RHSM<sup>+18a</sup>]. **Ochroconis** [SAS<sup>+19</sup>]. **Ocular** [EDSL11, PAM<sup>+19</sup>, PSS17, CHF<sup>+12</sup>]. **oedema** [PTM<sup>+19</sup>, SEM18]. **off** [BA13, BMGS17, SBH<sup>+16</sup>, SEK<sup>+16</sup>]. **officinalis** [VDO<sup>+18b</sup>, ZTF<sup>+10</sup>]. **offshore** [CNN<sup>+10</sup>]. **Ogcocephalidae** [LZGZ16]. **oil** [BSD<sup>+18c</sup>, CLS<sup>+15</sup>, ELI<sup>+17</sup>, GMP<sup>+11</sup>, MA16, VDO<sup>+18a</sup>]. **oil-adjuvanted** [CLS<sup>+15</sup>]. **oil-based** [ELI<sup>+17</sup>]. **oils** [VGI<sup>+16</sup>]. **old** [WGL17]. **Oldewage** [DAO19]. **oleoresin** [VDO<sup>+18b</sup>]. **olfactory** [LP17]. **Olifants** [HGPD11, HOHG13, HWO<sup>+17</sup>]. **oligochaetes** [ME12]. **oligomerization** [ZGY<sup>+18</sup>]. **oligosaccharides** [TMC<sup>+12</sup>]. **olivaceus** [HKK<sup>+11b</sup>, JKC<sup>+11</sup>, LKS<sup>+13</sup>, LPC<sup>+18</sup>, LWZ<sup>+18</sup>, SSJ<sup>+19</sup>]. **olive** [HKK<sup>+11b</sup>, JKC<sup>+11</sup>, LKS<sup>+13</sup>, LPC<sup>+18</sup>, SMD<sup>+12</sup>, SSJ<sup>+19</sup>]. **olseni** [FBVC16]. **omp85** [KREM14]. **OmpU** [CLWJ13]. **Onchorynchus** [DMP10]. **Oncorhynchus** [ASA10, ASHZ<sup>+12</sup>, AOAH13, AHHR<sup>+10</sup>, AJLC<sup>+16</sup>, ABT<sup>+14</sup>, AHTCA<sup>+17</sup>, AA10, AMA11, BSW17, BSPS<sup>+18</sup>, BCLM<sup>+19</sup>, BHT<sup>+17</sup>, BHA<sup>+11</sup>, BE19, BA14, BPPKJ10, BLP10, BMH<sup>+19</sup>, BLFC12, CSS<sup>+16</sup>, CHAB10, CMH<sup>+17</sup>, CPB<sup>+15</sup>, CLS<sup>+15</sup>, DS10, DWP<sup>+19</sup>, DPD<sup>+18</sup>, DPTFC10, DPTCF10, DJR<sup>+19</sup>, DdRTM13, DdRCP13, DPADO16, DSJA18, DT16, GMC<sup>+16a</sup>, GCNB16, GBO<sup>+18</sup>, GTH11, GPFAG19, GDW<sup>+15</sup>, GMC<sup>+16b</sup>, HKBD15a, HKBD15b, HJN<sup>+19</sup>, IOO15, JKL<sup>+13</sup>, JDH<sup>+18</sup>, JML19, vGJHS<sup>+11</sup>, vGJKR<sup>+17</sup>, KSM<sup>+17</sup>, KBE<sup>+14</sup>, LPA<sup>+10</sup>, LLS<sup>+11</sup>, LST<sup>+12</sup>, LF16, LF18, LGJ19, LWMT10, MBOC19, MNF<sup>+15</sup>, MSC<sup>+17</sup>, MCSM17, MLEM16, MTLP<sup>+18b</sup>, MKKM15, NOV<sup>+11</sup>, NDA10, OP14, OBFR12, OBD<sup>+11</sup>, OSAA18, OLT<sup>+10</sup>, PDLW17, PSBG<sup>+11</sup>, PLCC11, PMPG<sup>+16</sup>, PPE<sup>+18</sup>, QPB<sup>+16</sup>, RSB13, RKH16, RCGGM15, RHB<sup>+15</sup>, SMJ<sup>+12</sup>, STF<sup>+15</sup>, SHJ<sup>+12</sup>, SPCR<sup>+19</sup>, SCR<sup>+15</sup>, SKJ13, SON<sup>+18</sup>, TVK<sup>+19</sup>, VSS17, XKB12, YDO<sup>+16</sup>]. **online** [MPJ<sup>+15</sup>]. **onset** [GMN12]. **Ontario** [KHLL16]. **ontogeny** [BND<sup>+17</sup>, FPK<sup>+17</sup>]. **oomycetes** [SSSP18]. **oophoritis** [BA13]. **opacity** [PAM<sup>+19</sup>]. **opercular** [BC11, TPD<sup>+19</sup>]. **operon** [DS10]. **Ophiocephalus** [LL12]. **Oplegnathus** [JJV<sup>+15</sup>]. **optimal** [RHTC19b, dOAPLá<sup>+17</sup>]. **Optimization** [CMS<sup>+17</sup>]. **Optimized** [LGD<sup>+17</sup>, SCK13]. **Opuntia** [BAH<sup>+16</sup>]. **Oral** [ASHZ<sup>+12</sup>, SHJ<sup>+12</sup>, CMH<sup>+17</sup>, DPCdR14, FHZ<sup>+16</sup>, LLDL13, LXHL11, NFA15, SCK13]. **orally** [FHD13]. **orange** [FHZ<sup>+16</sup>, NNC<sup>+18</sup>, WCL<sup>+12</sup>]. **orange-spotted** [FHZ<sup>+16</sup>, NNC<sup>+18</sup>, WCL<sup>+12</sup>]. **orbicularis** [DTM<sup>+10</sup>]. **ordalii** [AHAMR<sup>+19</sup>]. **order** [CSS<sup>+16</sup>]. **Oregon** [JMhk18]. **Oreochromis** [AZSSZZ13, ACLP<sup>+19</sup>, ATP<sup>+17</sup>, AdOG<sup>+17</sup>, BMMC<sup>+15</sup>, CCHL13, CLLF14, CZL<sup>+19</sup>, DLPR15, DSLR16, DTJ<sup>+17</sup>, FLCC<sup>+14</sup>, FKB<sup>+14</sup>, ICVV16, KAS<sup>+18</sup>, KTP<sup>+15</sup>, KBTMH<sup>+16</sup>, LLH<sup>+14a</sup>, LCZ<sup>+18</sup>, LLX<sup>+19</sup>, LLL<sup>+18a</sup>, MCW<sup>+18</sup>, NMV<sup>+19</sup>, NLF11, NYRS12, OGI<sup>+18</sup>, PYSS19, PLC<sup>+19b</sup>, RHTC19b, RPMRLJ<sup>+19</sup>, SPKS17, SLKE10, SL15, SKGE13, SPS<sup>+19</sup>, TvWO<sup>+16</sup>, VMBGIC19, WSA<sup>+18</sup>, YSHG18, ZKL<sup>+19</sup>, vD14]. **ORF25** [ZWL<sup>+14</sup>]. **organ** [JJS<sup>+12</sup>, LCZ<sup>+18</sup>, OOO<sup>+11</sup>, PMBM13]. **organic**

[DD18, JKL<sup>+13</sup>, SHS14]. **organism**  
 [BMH<sup>+19</sup>, KHLL16, LLS<sup>+11</sup>, MTG<sup>+10</sup>, VDHV<sup>+16</sup>]. **organisms**  
 [GMB<sup>+17</sup>, GBO<sup>+18</sup>, RPJ<sup>+18</sup>]. **organs** [CSS<sup>+16</sup>, LCZ<sup>+18</sup>, ZCCN13].  
**oriental** [ZSZF16]. **orientalis**  
 [ATP<sup>+17</sup>, CDM<sup>+13</sup>, KBTMH<sup>+16</sup>, PLC<sup>+19b</sup>, SPKS17, SKGE13]. **origin**  
 [BDD<sup>+18</sup>, WDM<sup>+15</sup>]. **originating** [NJK<sup>+17</sup>]. **origins** [CRS<sup>+13</sup>, GRG<sup>+16</sup>].  
**ornamental** [CDM<sup>+13</sup>, CLHGK17, GJK<sup>+11</sup>, LFSZ18, NSC<sup>+15</sup>, NHM<sup>+10</sup>,  
 PRY<sup>+18</sup>, RHBMM13, dASLS<sup>+19</sup>, SSO<sup>+14</sup>, VCR<sup>+11</sup>, ZZC<sup>+17</sup>].  
**orocutaneous** [DD15]. **Ortholinea** [RRC<sup>+17</sup>]. **Ortholineidae** [RRC<sup>+17</sup>].  
**orthoreovirus**  
 [GB18, GMG<sup>+19</sup>, MIO<sup>+18</sup>, PPE<sup>+18</sup>, BHO<sup>+19</sup>, VCS<sup>+19</sup>, WHR<sup>+18</sup>].  
**orthoreovirus-3** [GMG<sup>+19</sup>]. **Oscar** [RHSM<sup>+18a</sup>]. **OsHV**  
 [GVLE16, GCCLRP<sup>+13</sup>]. **OsHV-1** [GVLE16, GCCLRP<sup>+13</sup>].  
**osmoregulation** [LTC16]. **Osmoregulatory** [PHVM13, LGJ19].  
**Osteichthyes** [CZB<sup>+11</sup>, PMP<sup>+18</sup>]. **osteosarcoma** [RHSM<sup>+18a</sup>]. **Ostrea**  
 [BLSG<sup>+16</sup>, BWP<sup>+19b</sup>]. **Ostreid** [GVLE16, HPY<sup>+13</sup>, BVL<sup>+18</sup>]. **other**  
 [BFFA<sup>+12</sup>, NB11]. **Outbreak**  
 [BCT<sup>+17</sup>, CGAS19, GVC<sup>+19</sup>, LLH<sup>+14b</sup>, LXL<sup>+18</sup>, SDJH16, XLZ<sup>+17</sup>,  
 AZSI<sup>+12</sup>, ACLP<sup>+19</sup>, BGRB14, BFFA<sup>+12</sup>, CGP<sup>+19</sup>, CCME16, CCMA<sup>+17</sup>,  
 DYML<sup>+18</sup>, EMA17, GFB<sup>+19</sup>, HHC<sup>+18</sup>, KTP<sup>+15</sup>, KAF<sup>+19</sup>, MSS<sup>+17b</sup>,  
 RBWR<sup>+15</sup>, SFF<sup>+17</sup>, TWNB<sup>+12</sup>, VPP<sup>+12</sup>, VFB<sup>+12</sup>, WDM<sup>+15</sup>, WCL<sup>+12</sup>].  
**Outbreaks** [HKD<sup>+10</sup>, KRD<sup>+17</sup>, WZL<sup>+11</sup>, CWL<sup>+17</sup>, CRAG<sup>+12</sup>, FLC<sup>+17</sup>,  
 HZP<sup>+12</sup>, HOHG13, JJB15, MHNY18, RDW18, STG<sup>+10</sup>, SJK<sup>+14</sup>]. **outcome**  
 [TDT<sup>+16</sup>]. **Outer** [KREM14, CLWJ13, NNC<sup>+18</sup>]. **ova** [SWS<sup>+16</sup>]. **Ovarian**  
 [RAM<sup>+17</sup>, CZB<sup>+11</sup>, SdMVS<sup>+16</sup>]. **ovatus** [LYL<sup>+18</sup>]. **overexpressing**  
 [SNM<sup>+16</sup>]. **Overview** [GL18, BW18]. **ovulatory** [GM11]. **oxidase**  
 [BSD<sup>+18c</sup>, BSD<sup>+18a</sup>, BSD<sup>+18d</sup>]. **Oxidative**  
 [BCBS<sup>+13</sup>, MLER<sup>+18</sup>, BSD<sup>+18a</sup>, BSD<sup>+18d</sup>, PKLH19]. **oxide** [YK13].  
**oxolinic** [TNK12]. **Oxyeleotris** [WZL<sup>+11</sup>]. **oxygen** [MTLP<sup>+18b</sup>].  
**oxyrinchus** [MMD<sup>+12</sup>, SAD<sup>+12</sup>, MMD<sup>+12</sup>, SAD<sup>+12</sup>]. **oxysporum**  
 [KDP<sup>+17</sup>]. **oxytetracycline** [FLCC<sup>+14</sup>, FGJ<sup>+10</sup>, YVM<sup>+14</sup>]. **oyster**  
 [BLSG<sup>+16</sup>, BVL<sup>+18</sup>, CBM<sup>+17</sup>, CBM<sup>+18</sup>, CdAPdC<sup>+19</sup>, GCCLRP<sup>+13</sup>,  
 HPY<sup>+13</sup>, MDC<sup>+18</sup>]. **oysters** [BVT<sup>+18</sup>, CBM<sup>+18</sup>, GVLE16]. **ozonation**  
 [CB13]. **ozone** [ITKH18].

**P** [AFTEML19, IPW<sup>+13</sup>, UN10]. **P-1** [UN10]. **P-glycoprotein** [IPW<sup>+13</sup>].  
**p53** [XJL<sup>+19</sup>]. **Pacific** [STF<sup>+15</sup>, BTN<sup>+18</sup>, BVT<sup>+18</sup>, BVL<sup>+18</sup>, CDM<sup>+13</sup>,  
 CLW<sup>+13</sup>, GVLE16, GGW<sup>+11</sup>, GCCLRP<sup>+13</sup>, GCS<sup>+18</sup>, HLL<sup>+12</sup>, HCEH16,  
 HGH<sup>+16</sup>, HPY<sup>+13</sup>, JQK14, PPE<sup>+18</sup>, RPGCIG17, WMF14]. **pacinii** [BT14].  
**pacu** [CMSHS16, VGI<sup>+16</sup>]. **Pagellus** [RVB13]. **Pagrus**  
 [EPA<sup>+10</sup>, KLW10, LJGRI<sup>+10</sup>]. **pagurus** [SWH<sup>+14</sup>]. **pAh** [EDP<sup>+17</sup>]. **pAh-1**  
 [EDP<sup>+17</sup>]. **pair** [CZL<sup>+19</sup>, VCOD17]. **Palaemon** [SPTDEE<sup>+15</sup>]. **Pallas**  
 [WMF14]. **pallasii** [GGW<sup>+11</sup>, HLL<sup>+12</sup>, HCEH16]. **Pampus** [LJC<sup>+19</sup>].  
**pancerii** [TAQ<sup>+10</sup>]. **Pancreas** [JWO<sup>+10</sup>, AAUHW15, Ano10c, BMT<sup>+15</sup>,

CJB<sup>+15</sup>, DMB<sup>+19</sup>, GBSF12, JTW<sup>+10</sup>, JJB15, JJM<sup>+17</sup>, RSP<sup>+17</sup>, RRG<sup>+19</sup>, SJK<sup>+14</sup>, SVY<sup>+14</sup>, SKJ13, TWNB<sup>+12</sup>]. **pancreatic** [AOAH13, BAH<sup>+18</sup>, CGW<sup>+19</sup>, ECP<sup>+10</sup>, FE11, JOF<sup>+19</sup>, JMS13, JJSJ15, KDA<sup>+18</sup>, KBD13, LASRA<sup>+19</sup>, LJGRI<sup>+10</sup>, LVADB17, MNM<sup>+18</sup>, MMH10, MMNL14, NB10, RMSH09, VCOD17]. **pangasiae** [SPV<sup>+18</sup>]. **Pangasianodon** [BAD<sup>+12</sup>, CTK<sup>+10</sup>, SMV<sup>+14</sup>, SPV<sup>+18</sup>, VST<sup>+19</sup>]. **Pangasius** [PRWG17, SZZSFN<sup>+14</sup>]. **Pansteatitis** [HWO<sup>+17</sup>, HOHG13, TvWO<sup>+16</sup>]. **pansteatitis-affected** [HOHG13]. **pansteatitis-suffering** [TvWO<sup>+16</sup>]. **Paphies** [RPJ<sup>+18</sup>]. **papillary** [ONA10]. **papillomatosis** [DWL<sup>+17</sup>]. **papulosum** [GSBEM15, WBD<sup>+10b</sup>]. **Parabrachiella** [PMBM13]. **Paracheirodon** [LLG<sup>+15</sup>, ŘKH17, SMS<sup>+19</sup>]. **paraffin** [FBL<sup>+14</sup>, FGR<sup>+12</sup>]. **paraffin-embedded** [FBL<sup>+14</sup>, FGR<sup>+12</sup>]. **parahaemolyticus** [CCLGRM<sup>+17</sup>, DD18, HXZ<sup>+16</sup>, ITKH18, KTN<sup>+16</sup>, KYB<sup>+15</sup>, LLDL13, LSA<sup>+15</sup>, LMM<sup>+15</sup>, LMM<sup>+16</sup>, ZJR<sup>+18</sup>]. **parahaemolyticus-infected** [LMM<sup>+15</sup>, LMM<sup>+16</sup>]. **Paralichthys** [DBHC17, HKK<sup>+11b</sup>, JKC<sup>+11</sup>, LKS<sup>+13</sup>, LPC<sup>+18</sup>, LWZ<sup>+18</sup>, SSJ<sup>+19</sup>, WWS<sup>+11</sup>]. **parameters** [SPCR<sup>+19</sup>, VST<sup>+19</sup>, WM19, WSA<sup>+18</sup>, XKB12]. **Paramoeba** [CHB<sup>+17</sup>, HSA17, WNMK<sup>+16</sup>]. **Parasite** [MWS17, USM17, ABC<sup>+10</sup>, BMD<sup>+14</sup>, BND<sup>+17</sup>, BCJ13, CBM<sup>+17</sup>, DAO19, EPCSBP18, FHD13, HHO14, HGH<sup>+16</sup>, LRB<sup>+17</sup>, ME12, MKK<sup>+11</sup>, MLWC11, MPM16, PZL<sup>+14</sup>, PMP<sup>+18</sup>, RAVC18, RRC<sup>+17</sup>, RKPG16, SBW<sup>+18</sup>, SBD11, SGQ<sup>+15</sup>, SSK17, TOK<sup>+16</sup>, WTM14, WNO<sup>+18</sup>, YMBE13, YYW<sup>+14</sup>, ZCC18, MJ17]. **Parasites** [SMJ<sup>+12</sup>, BCM<sup>+17</sup>, ERÁpSB14, LZGZ16, MS16, MGM<sup>+18</sup>, VDO<sup>+18b</sup>]. **Parasitic** [BA13, FŠK<sup>+19</sup>, AJLK<sup>+18</sup>, BDD<sup>+18</sup>, EDN18, GJMH17, vGJKR<sup>+17</sup>, LTC<sup>+14</sup>, LTC16, LTC17, SAD<sup>+12</sup>]. **parasitica** [RDW18, SSSP18, STES14, SWWN<sup>+16</sup>, TFG19]. **parasiticides** [XZZ16]. **parasitized** [JMHK18]. **parasitizing** [GAC10]. **Parasitosis** [SBK<sup>+13</sup>]. **Paratelphusa** [MRR<sup>+14</sup>, RNM<sup>+12</sup>]. **parauberis** [HKK<sup>+11b</sup>, LFSZ18, MP18, NLKA16]. **parietalis** [WEPB<sup>+18</sup>]. **Park** [HGPD11, HOHG13]. **parr** [STES14]. **part** [BTN<sup>+18</sup>, JMS13]. **partial** [GFS<sup>+14</sup>, RB15, ZB12]. **parva** [MKK<sup>+11</sup>]. **parvalbumin** [LSA<sup>+15</sup>]. **Parvicapsula** [BLP10, JNN<sup>+11</sup>]. **parvo** [MRR<sup>+14</sup>]. **parvo-like** [MRR<sup>+14</sup>]. **parvovirus** [YTL10]. **passage** [OBFR12]. **passages** [STES14]. **passively** [NPGA<sup>+19</sup>]. **Pasteurella** [EWH<sup>+19</sup>, RB15]. **Pasteurellosis** [AGR<sup>+16</sup>]. **Pastinachus** [SDZN19]. **pathogen** [AHITC18, AHAMR<sup>+19</sup>, BPMI<sup>+16</sup>, BMA13, DXX<sup>+15</sup>, DCL<sup>+17</sup>, DABO<sup>+17</sup>, EAN<sup>+18</sup>, EKT<sup>+11</sup>, FMA<sup>+19</sup>, FMB<sup>+11</sup>, KJB11, KPKP10, LITCAH19b, MB17, MSG<sup>+18</sup>, MFHHG18, Mor12, PKLH19, ŘKH16, RCGGM15, SHW<sup>+11</sup>, SP15, SMKBP17, VC17, XJL<sup>+15</sup>, YSV<sup>+13</sup>, YVM<sup>+14</sup>, YLX<sup>+19a</sup>, ZQB<sup>+11</sup>, ZZA<sup>+14</sup>]. **pathogen-associated** [RCGGM15]. **Pathogenesis** [MGN<sup>+16</sup>, MKY<sup>+15</sup>, ADF14, ICVV16, KOI<sup>+14</sup>, MAC<sup>+15</sup>, RSIP<sup>+17</sup>]. **Pathogenic** [BHA<sup>+11</sup>, ACAS14, BTN<sup>+18</sup>, CHH<sup>+14</sup>, FLVA10, HWM<sup>+13</sup>, HBH<sup>+19</sup>, KF10b, KKM<sup>+19</sup>, LQL<sup>+10</sup>, LML<sup>+13</sup>, MS16, MoSMS18, NMM<sup>+18</sup>, STIG17, SCS<sup>+12</sup>, TDLT<sup>+16</sup>, WZQ<sup>+16</sup>, YLS<sup>+19</sup>, ZDWH18]. **Pathogenicity**

[EWH<sup>+19</sup>, TES11, BBP18, FMA<sup>+19</sup>, HXZ<sup>+16</sup>, JGI<sup>+10</sup>, JSJR<sup>+19</sup>, JIJ16, LQL<sup>+10</sup>, LQY11, NN11, PLC<sup>+19b</sup>, RKH18, RSPA<sup>+18</sup>, SSF<sup>+17</sup>, VTM<sup>+14</sup>].  
**pathogens** [ATJS<sup>+18</sup>, CGW<sup>+19</sup>, DSA<sup>+12</sup>, DAB<sup>+12</sup>, DYML<sup>+18</sup>, EKT<sup>+11</sup>, LFH<sup>+11</sup>, MDC<sup>+18</sup>, RAM<sup>+18</sup>, SHS14, VME<sup>+19</sup>, WMM17, ZCQF15].  
**Pathologic** [ACLP<sup>+19</sup>, FFLC17]. **pathological** [LAN<sup>+14</sup>, LF16, PAZ18].  
**Pathology**  
 [Loh13, MLMR16, SQC<sup>+14</sup>, BWB<sup>+17</sup>, BTC<sup>+17</sup>, DDBC<sup>+15</sup>, FYO<sup>+11</sup>, GKCC<sup>+12</sup>, LFP<sup>+11a</sup>, LFP<sup>+11b</sup>, MRSC13, SRT<sup>+14</sup>, WPH<sup>+13</sup>, WA14].  
**Pathophysiological** [PCK<sup>+15</sup>]. **pathway** [JNS<sup>+19</sup>, WTM14, XJL<sup>+19</sup>].  
**patterns** [LMM<sup>+15</sup>, LMM<sup>+16</sup>]. **pattern** [AAZS<sup>+15</sup>, DBV<sup>+13</sup>, ZWY<sup>+11</sup>].  
**patterns** [AGFG19, DIVC16, EDN18, ONGQ<sup>+14</sup>, PHR14, RCGGM15, VDMJ<sup>+13</sup>, VMBGE17]. **paucus** [ABM<sup>+15</sup>]. **PCR**  
 [KKT<sup>+18b</sup>, ATM<sup>+10</sup>, AOAH13, AdOG<sup>+17</sup>, AHITC18, BKS<sup>+17</sup>, BBC<sup>+10</sup>, BMBS12, CDF<sup>+18</sup>, CYS17, CDG<sup>+14</sup>, CZL<sup>+19</sup>, DPMK12, DCL<sup>+17</sup>, ECP<sup>+10</sup>, FSM<sup>+16</sup>, FSO<sup>+10</sup>, FGR<sup>+12</sup>, FSG<sup>+12</sup>, GJK<sup>+11</sup>, GTH11, GBSF12, HSA17, HRL15, HGB<sup>+11</sup>, JKS<sup>+13</sup>, JNN<sup>+11</sup>, KJW<sup>+12</sup>, KBJ<sup>+13</sup>, KKT<sup>+18a</sup>, LGS19, LML<sup>+13</sup>, LGC<sup>+19</sup>, LLS<sup>+11</sup>, MMBS10, MCW<sup>+18</sup>, NLKA16, NMM<sup>+18</sup>, SKN<sup>+16</sup>, SS17, SFL<sup>+16</sup>, TSK<sup>+19</sup>, TCFáS19, TAC15, YTL10, YGL<sup>+18</sup>, ZCC<sup>+15</sup>, ZHFC11, ZFZ<sup>+11</sup>, vBVL<sup>+16</sup>]. **PCR-based** [BMBS12, FSM<sup>+16</sup>].  
**PCR-DNA** [KKT<sup>+18a</sup>]. **PCRs** [MTAB15]. **PD**  
 [Ano10c, BMT<sup>+15</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, SVY<sup>+14</sup>, TWNB<sup>+12</sup>]. **pear**  
 [BAH<sup>+16</sup>]. **pearlspot** [MRN<sup>+19</sup>]. **peelii** [SJT14, SJT14]. **Pelagia**  
 [MLMR16]. **peled** [SMS<sup>+18</sup>, SMS<sup>+18</sup>]. **Pelletan** [HMDB13]. **pellets**  
 [SNM<sup>+16</sup>]. **pelvic** [FPK<sup>+17</sup>]. **penaeid**  
 [BPK<sup>+17</sup>, CNN<sup>+10</sup>, HVVV15, SP15, TDLT<sup>+16</sup>, TDT<sup>+16</sup>, YTL10, PHW<sup>+16</sup>].  
**Penaeus** [CMEV17a, CMS<sup>+17</sup>, CMEV17b, CWW<sup>+18</sup>, DCMM13, DBM<sup>+14</sup>, EEMCEGSP16, FSO<sup>+10</sup>, HXZ<sup>+16</sup>, JJS<sup>+12</sup>, MCO11, NNCLGC<sup>+11</sup>, OLC11, PSK<sup>+13</sup>, RDN<sup>+12</sup>, SMS<sup>+10</sup>, STS<sup>+15</sup>, SRSF10, STG<sup>+10</sup>, SNM<sup>+16</sup>, TSK<sup>+19</sup>, TTL<sup>+16</sup>]. **Peninsular** [SSO<sup>+14</sup>]. **Pennsylvania** [SBW<sup>+18</sup>]. **peptide**  
 [CMH<sup>+17</sup>, UN10, ZN10]. **peptides** [PMK12]. **Peracetic** [SMFM12]. **Perca**  
 [BGRB14, BGCKF12, CGP<sup>+19</sup>, KHLL16, OEG<sup>+13</sup>, PHvdH12, PBM<sup>+15</sup>, RPM<sup>+19</sup>, SGQ<sup>+15</sup>, SKPS16]. **percae** [BGRB14]. **perch**  
 [BGRB14, BGCKF12, CGP<sup>+19</sup>, FHD13, HBB14, KHLL16, OEG<sup>+13</sup>, PHvdH12, PBM<sup>+15</sup>, RPM<sup>+19</sup>, SGQ<sup>+15</sup>, SKPS16]. **Perciformes**  
 [EKS<sup>+13</sup>, LXL<sup>+18</sup>]. **peregrinum** [PBW<sup>+18</sup>]. **perennis** [AA10].  
**performance** [BWP<sup>+19b</sup>, LKS<sup>+13</sup>, LWZ<sup>+18</sup>, PSCFB<sup>+18</sup>, PG16]. **period**  
 [OM10, SMS<sup>+10</sup>]. **peripheral** [WXL16]. **peritoneal** [DRG<sup>+17</sup>, GSS<sup>+10</sup>].  
**Perkinsus** [CdAPdC<sup>+19</sup>, FBVC16]. **permanganate** [DBS12]. **permissive**  
 [HO13]. **Peroxide** [MGM<sup>+18</sup>, ACN12, FVAVMGE18, HKBD15a, HKBD15b].  
**Perry** [BCW<sup>+15</sup>, SBHC18, WZQ<sup>+16</sup>]. **Persistence**  
 [BMMC<sup>+15</sup>, GMN12, HCEH16, WIC<sup>+19</sup>, GFW<sup>+10</sup>]. **Persistent**  
 [JJSJ15, PWW19, Wen16]. **perspective** [dSCBdS<sup>+16</sup>]. **perspectives**  
 [Dal18, HWO<sup>+17</sup>, ZGY<sup>+18</sup>]. **Peru** [MCSM17]. **perurans**  
 [CONN10, CBLN13, CAS<sup>+18</sup>, CHB<sup>+17</sup>, FGR<sup>+12</sup>, HSA17, LTC16, LTC17,

MCCN14, NBJ10, WNMK<sup>+16</sup>, WNO<sup>+18</sup>]. **pet** [KZJ<sup>+17</sup>, BWM<sup>+13</sup>]. **pet-shop** [KZJ<sup>+17</sup>]. **PET/** [BWM<sup>+13</sup>]. **petechial** [PWW19]. **Peters** [AZSSZZ13, HVVV15, LCOZ10, MWS17, SPLV<sup>+15</sup>, TvWO<sup>+16</sup>, vD14]. **pH** [DSA<sup>+12</sup>, DAB<sup>+12</sup>, MMNL14]. **Phacoemulsification** [ALG15]. **Phaeochromocytoma** [TIK<sup>+14b</sup>]. **Phaeophleospora** [ŘKH18]. **phages** [CHV<sup>+12</sup>]. **pharmaceutical** [AH16]. **pharmacodynamic** [RHTC19b]. **Pharmacokinetic** [RHTC19b, dOAPLá<sup>+17</sup>, LWJ<sup>+16</sup>, Sam10]. **Pharmacokinetics** [DdRCP13, DPCdR14, FHZ<sup>+16</sup>, GSS<sup>+10</sup>]. **phase** [DJR<sup>+19</sup>]. **PHB** [HBH<sup>+19</sup>]. **Phenotype** [VSS17, DPD<sup>+18</sup>, HBVB16]. **phenotypes** [HRNW15, TALA11]. **Phenotypic** [DLPR15, IAR<sup>+10</sup>, PAZ18, DMK<sup>+19</sup>, RVC18, SHO<sup>+17</sup>, WZA10, ZQB<sup>+11</sup>]. **Phenotypical** [PKPG15]. **philippica** [YLX<sup>+19b</sup>]. **philippinarum** [FBVC16]. **Philometra** [SBM<sup>+11</sup>]. **philometrid** [MPM16]. **Philometridae** [MPM16]. **philppinarum** [ACYC10]. **phocae** [CGCAH12, GCMG<sup>+11</sup>]. **Phoma** [dSRSHGá<sup>+19</sup>]. **phospholipase** [ZWG<sup>+17</sup>]. **phosphotransfer** [BSV<sup>+18</sup>]. **photobacteriosis** [KPSP<sup>+19</sup>]. **Photobacterium** [BBP18, CDF<sup>+18</sup>, CRS<sup>+13</sup>, HHM<sup>+14</sup>, HCL<sup>+14</sup>, KPSP<sup>+19</sup>, OJRL10, SPS<sup>+17</sup>]. **Phyllopharyngea** [GJMH17]. **Phyllopteryx** [LYD<sup>+15</sup>]. **Phylogenetic** [PHvdH12, VC17, CGP<sup>+19</sup>, NRMS14, NSE<sup>+17</sup>]. **phylogeny** [BMH<sup>+19</sup>, GAC10, RRC<sup>+17</sup>, SCD19, YLW<sup>+14</sup>, YMBE13]. **physical** [SDI<sup>+18</sup>]. **Physiological** [CRO<sup>+18</sup>, MSS<sup>+17b</sup>]. **physiology** [BLP10, GTGCM19]. **Piaractus** [CMSHS16, FCS<sup>+18</sup>, VGI<sup>+16</sup>]. **Picornavirus** [LEM<sup>+19</sup>]. **Pierre** [HMDB13]. **pigment** [Góm12]. **pike** [Řeh13]. **pikeperch** [BAH<sup>+16</sup>]. **Pimephales** [JBGP11, MGN<sup>+16</sup>, PPF<sup>+12</sup>, WBD<sup>+10b</sup>]. **Pimphales** [AHRH<sup>+10</sup>]. **pink** [BPPKJ10, SMJ<sup>+12</sup>]. **PirA** [NPGA<sup>+19</sup>, CCLGRM<sup>+17</sup>, dJDAVRGM<sup>+18</sup>]. **pirA-** [dJDAVRGM<sup>+18</sup>]. **PirA-like** [CCLGRM<sup>+17</sup>]. **piranha** [EDSL11]. **pirB** [dJDAVRGM<sup>+18</sup>]. **pirB-like** [dJDAVRGM<sup>+18</sup>]. **Pisces** [ANB<sup>+19</sup>, MGM<sup>+16</sup>, VDO<sup>+18a</sup>]. **Piscichlamydia** [WNGS<sup>+17</sup>]. **piscicida** [ACAS14, CDM<sup>+16</sup>, CGAS19, CDF<sup>+18</sup>, CRS<sup>+13</sup>, EAN<sup>+18</sup>, EA18, GPWF19, HCL<sup>+14</sup>, KPSP<sup>+19</sup>, OJRL10]. **piscicida-associated** [CDM<sup>+16</sup>]. **piscicola** [IAR<sup>+10</sup>]. **piscidin** [ZN10]. **Piscine** [GFO<sup>+13</sup>, GMG<sup>+19</sup>, GMC<sup>+16a</sup>, MMB<sup>+15</sup>, BBC<sup>+10</sup>, BWNS<sup>+11</sup>, GB18, JNS<sup>+19</sup>, KBTMH<sup>+16</sup>, MIO<sup>+18</sup>, PPE<sup>+18</sup>, TB12, TCM<sup>+19</sup>, WNSAL12, WNAF<sup>+13</sup>, BHO<sup>+19</sup>, SRM<sup>+18</sup>, SNK<sup>+19</sup>, VCS<sup>+19</sup>, WHR<sup>+18</sup>]. **pisciphila** [ŘKH17, ŘKH18]. **Piscirickettsia** [CRO<sup>+18</sup>, CIL<sup>+17</sup>, DRG<sup>+17</sup>, FCL<sup>+19</sup>, HBB<sup>+15</sup>, HKB<sup>+16</sup>, ISCF<sup>+19</sup>, LCV<sup>+17</sup>, MB17, MSG<sup>+18</sup>, MLRS<sup>+17</sup>, MFHHG18, MID<sup>+19b</sup>, OM10, PVIM18, RGD<sup>+13</sup>, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, RE14, SHO<sup>+17</sup>, SHKF16, SDR<sup>+15</sup>, SCR<sup>+15</sup>, YSV<sup>+13</sup>, YVM<sup>+14</sup>]. **Piscirickettsiosis** [RE14, MID<sup>+19a</sup>, RGD<sup>+13</sup>, RSIP<sup>+17</sup>]. **piscium** [CPP14, CPdPP16]. **PKD** [MJ17]. **PKD-parasite** [MJ17]. **placement** [GAC10]. **Placopecten** [BRL<sup>+13</sup>]. **plague** [KPKP10, SMKBP17, VDHV<sup>+16</sup>, VDH19]. **plant** [ESA<sup>+10</sup>, NFA15]. **plant-mixed** [ESA<sup>+10</sup>]. **plaque** [CCCTA<sup>+14</sup>]. **plasma**

[FBVC16, FBK<sup>+</sup>16, MMS<sup>+</sup>16]. **plasmid** [BLFRCQ10]. **Platax** [DTM<sup>+</sup>10]. **platensis** [RBH<sup>+</sup>17]. **platform** [JJS<sup>+</sup>12, MPJ<sup>+</sup>15]. **Platyhelminthes** [BB11, YEK<sup>+</sup>17]. **play** [BPCS19, WLX<sup>+</sup>10]. **plays** [PJZB19, ZZQ<sup>+</sup>19]. **plecoglossi** [ZCC18]. **plecoglossida** [HZJ<sup>+</sup>19, LXZ<sup>+</sup>19, ZZA<sup>+</sup>14, ZWG<sup>+</sup>17]. **Plecoglossus** [CONN10, FNISE12, KSS<sup>+</sup>15, ZCC18]. **plerocerci** [BB11]. **Pleuronectiformes** [YMBE13]. **PLGA** [ASHZ<sup>+</sup>12]. **ploidy** [FFP<sup>+</sup>14, LAN<sup>+</sup>14]. **PMCV** [BWNS<sup>+</sup>11]. **Poecilia** [ADR11, BCM<sup>+</sup>17, LCOZ10, SPLV<sup>+</sup>15]. **Poeser** [ADR11]. **Poland** [NJK<sup>+</sup>17]. **policies** [JMD<sup>+</sup>18]. **Polish** [BMGS17, MBS<sup>+</sup>17]. **Pollock** [Dig15, WMF14]. **polluted** [HWO<sup>+</sup>17]. **poly** [HBH<sup>+</sup>19, SCS<sup>+</sup>12, ASHZ<sup>+</sup>12, OTN<sup>+</sup>12, OKS<sup>+</sup>13]. **poly-** [HBH<sup>+</sup>19, SCS<sup>+</sup>12]. **polyclonal** [ERÁpSB14]. **Polycystic** [JCS11, RhMV<sup>+</sup>15, RMAM12]. **Polydora** [CBM<sup>+</sup>18]. **polydorid** [CBM<sup>+</sup>17]. **polymerase** [BHT<sup>+</sup>17, CGG<sup>+</sup>10, HLP<sup>+</sup>16, TSS18, THW<sup>+</sup>12, WSX<sup>+</sup>18, YEK<sup>+</sup>17]. **polymicrobic** [CDD<sup>+</sup>18]. **Polymorphism** [HBB<sup>+</sup>15, CPB<sup>+</sup>15]. **polymorphisms** [FCL<sup>+</sup>19]. **Polynesia** [DTM<sup>+</sup>10]. **polyomavirus** [WCW<sup>+</sup>16b]. **Polyphasic** [DLCF13]. **polyphenol** [MDF<sup>+</sup>17]. **polysaccharide** [ZKL<sup>+</sup>19]. **polystyrene** [HRNW15]. **polyvalent** [HJN<sup>+</sup>19]. **pomfret** [CWL<sup>+</sup>17, LJC<sup>+</sup>19]. **Pomoxis** [BCT<sup>+</sup>17, GPWF19, SMS<sup>+</sup>19]. **pompano** [AZSI<sup>+</sup>12, LYL<sup>+</sup>18, WKW13]. **pond** [DML<sup>+</sup>16, HMV<sup>+</sup>17, SMS<sup>+</sup>18, TSK<sup>+</sup>19]. **pond-reared** [DML<sup>+</sup>16, HMV<sup>+</sup>17, SMS<sup>+</sup>18, TSK<sup>+</sup>19]. **ponds** [FBS13, MSK<sup>+</sup>12, RHS<sup>+</sup>12]. **pool** [LTM<sup>+</sup>19]. **pooled** [HWM<sup>+</sup>13]. **pooling** [LTM<sup>+</sup>19]. **Poorly** [CIA<sup>+</sup>18]. **population** [BDD<sup>+</sup>18, DIVC16, EKS<sup>+</sup>13, HHO14, ISCF<sup>+</sup>19, LKT<sup>+</sup>13, LUP<sup>+</sup>18, MFES18, MVWS13, ONGQ<sup>+</sup>14, SSL18, VPS<sup>+</sup>14, YLL<sup>+</sup>18]. **populations** [AAUHW15, BGCKF12, DBM<sup>+</sup>14]. **porcupinefish** [SBK<sup>+</sup>13]. **pORF72** [KJW<sup>+</sup>17]. **porgy** [EPA<sup>+</sup>10]. **Porpostoma** [OBR<sup>+</sup>14]. **Portugal** [BLSG<sup>+</sup>16]. **Portuguese** [RRC<sup>+</sup>17]. **Positive** [MSC<sup>+</sup>17, AJLC<sup>+</sup>16, BHA<sup>+</sup>11, LLS<sup>+</sup>11, LBF<sup>+</sup>14, STS<sup>+</sup>15]. **possible** [IFF<sup>+</sup>15, MLF<sup>+</sup>10, Tre12, YLSW14]. **post** [DPD<sup>+</sup>18, ECP<sup>+</sup>10, EEMCEGSP16, GM11, GDN<sup>+</sup>16, HBB14, KS19, KAF<sup>+</sup>19, NB10, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, SPCR<sup>+</sup>19, SJSA<sup>+</sup>14]. **post-challenge** [SPCR<sup>+</sup>19]. **post-hatch** [DPD<sup>+</sup>18]. **post-larvae** [EEMCEGSP16, KS19]. **post-ovulatory** [GM11]. **post-release** [HBB14]. **post-smolt** [NB10, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18]. **post-smolts** [ECP<sup>+</sup>10, KAF<sup>+</sup>19]. **post-stocked** [GDN<sup>+</sup>16]. **pot** [LYD<sup>+</sup>15]. **pot-bellied** [LYD<sup>+</sup>15]. **Potamotrygon** [MdOO16]. **Potamotrygonidae** [MdOO16]. **potassium** [DBS12, HCCM12]. **potassium-deficient** [HCCM12]. **Potential** [EKED<sup>+</sup>17, LLDL13, MKI<sup>+</sup>15, MSB<sup>+</sup>19, STIG17, WCR<sup>+</sup>18, ZJDL18, BE19, CLWJ13, CHH<sup>+</sup>14, CHV<sup>+</sup>12, GWM12, LMAKN16, MSS<sup>+</sup>17a, PJJ<sup>+</sup>12, PSK<sup>+</sup>12, PMPG<sup>+</sup>16, RAS<sup>+</sup>10, SHV<sup>+</sup>16, SSL18, WDM<sup>+</sup>15, WMM<sup>+</sup>16, WXL16, WTM14, WMF14, XZZ16, YTKS19]. **potentially** [MS16].



**Potomac** [DIH<sup>+</sup>16, PHR14]. **pouch** [ZZQ<sup>+</sup>19]. **povidone** [MoSMS18]. **Pox** [WNGS<sup>+</sup>17]. **poxvirus** [GGMG18b, GTT<sup>+</sup>17, GCM<sup>+</sup>18b, LDA<sup>+</sup>19].  
**PP\_ExoU** [ZWG<sup>+</sup>17]. **practical** [BMBS12, HHO14]. **practices** [JR19, MMH<sup>+</sup>18, RMS<sup>+</sup>13]. **pRAS1** [BLFRCQ10]. **prawn** [FMT<sup>+</sup>14, IBFL19, LYKN18, MCO11, NRMS14, ZSZF16]. **prawn-infecting** [IBFL19]. **praziquantel** [BCT<sup>+</sup>17, FHD13, OMB<sup>+</sup>19, ZPM<sup>+</sup>18]. **pre** [BHA<sup>+</sup>17, GBV<sup>+</sup>16, GDN<sup>+</sup>16]. **pre-** [GDN<sup>+</sup>16]. **pre-analytical** [BHA<sup>+</sup>17]. **pre-treatment** [GBV<sup>+</sup>16]. **preadult** [AH16]. **precipitation** [BTC<sup>+</sup>17]. **precision** [SK15]. **predatory** [TIK<sup>+</sup>14b]. **predict** [GCGR13]. **Preliminary** [ACN12, BVK<sup>+</sup>16]. **premises** [NSC<sup>+</sup>15]. **preparation** [WCW16a]. **preparations** [JBG11, SGB<sup>+</sup>16]. **prerecruit** [SWH<sup>+</sup>14]. **Presence** [BSC<sup>+</sup>14, GIW<sup>+</sup>11, MGH<sup>+</sup>14, VCS<sup>+</sup>19, AAUHW15, DPTFC10, DPC<sup>+</sup>10, MMW<sup>+</sup>15, RDN<sup>+</sup>12, VCR<sup>+</sup>11, YLSW14]. **present** [ABVS18, BHT<sup>+</sup>17]. **presentation** [CGP<sup>+</sup>19]. **preserves** [FMM<sup>+</sup>19]. **pressure** [SVY<sup>+</sup>14]. **presumptive** [LGK<sup>+</sup>14]. **pretty** [RKH18]. **Prevalence** [BWNS<sup>+</sup>11, HKK<sup>+</sup>11b, MIO<sup>+</sup>18, MMWK19, MPS<sup>+</sup>18, SHO<sup>+</sup>17, SMS<sup>+</sup>18, WNSAL12, BND<sup>+</sup>17, BWB<sup>+</sup>17, BWP<sup>+</sup>19b, CXK16, DSJA18, FSM<sup>+</sup>16, FFP<sup>+</sup>14, FHFF15, HDWM15, KKK<sup>+</sup>18, LUP<sup>+</sup>18, LQY11, MMBS10, MSK<sup>+</sup>12, PHR14, SBW<sup>+</sup>18, SMJ<sup>+</sup>14, ZDWH18]. **prevalent** [BAH<sup>+</sup>18, GMG<sup>+</sup>19]. **prevent** [AA10, BMK17, CB13, RHS<sup>+</sup>12]. **prevented** [SJS<sup>+</sup>14]. **prevention** [FMB<sup>+</sup>11, MUM<sup>+</sup>19]. **preventive** [SSSP18]. **prevents** [NDA10]. **previously** [GLK<sup>+</sup>16]. **prickly** [BAH<sup>+</sup>16]. **primary** [RSB13]. **primer** [CZL<sup>+</sup>19, GTH11, LGD<sup>+</sup>17]. **primer/probe** [GTH11]. **primers** [VCOD17, YEK<sup>+</sup>17]. **Priming** [PHW<sup>+</sup>16]. **Prince** [MMMD16]. **prior** [GGW<sup>+</sup>11]. **Pro** [RCGGM15, BSD<sup>+</sup>18d]. **Pro-inflammatory** [RCGGM15, BSD<sup>+</sup>18d]. **pro-oxidative** [BSD<sup>+</sup>18d]. **probe** [GTH11, LGC<sup>+</sup>19, SMF<sup>+</sup>10]. **probed** [HRL15]. **probes** [BBC<sup>+</sup>10, VLVS<sup>+</sup>16]. **probiotic** [ABF15, BLFC12, DSSB18, GCNB16, LKS<sup>+</sup>13]. **Probiotics** [NFA15, ASA10, LMC<sup>+</sup>16]. **problems** [BK12]. **Procamburus** [AMAR18, DXX<sup>+</sup>15, JPG<sup>+</sup>19, WXWD15]. **procedure** [AHITC18, HAS<sup>+</sup>19, LJGRI<sup>+</sup>10, VCOD17]. **procedures** [HWM<sup>+</sup>13]. **process** [LTC16]. **processes** [ARL<sup>+</sup>17]. **produced** [KPM<sup>+</sup>11, SBK<sup>+</sup>15, WGL17]. **produces** [CRO<sup>+</sup>18]. **producing** [RVC18]. **product** [WGL17]. **Production** [CCLL16, FMT<sup>+</sup>14, KAS<sup>+</sup>18, BPMT<sup>+</sup>16, COB<sup>+</sup>16, DPADO16, ESV<sup>+</sup>19b, HDWM15, JR19, LAN<sup>+</sup>14, MCO11, OLC11]. **Production-level** [KAS<sup>+</sup>18]. **products** [ABF15, BGG11, LKS<sup>+</sup>13, MMNL14, NFA15, TFG19]. **profile** [BSB<sup>+</sup>18]. **profiles** [PRSK10, PMK12]. **profiling** [FBVC16, HKB<sup>+</sup>16, LHW<sup>+</sup>15b, WCL<sup>+</sup>12]. **progenitor** [WKW13]. **progeny** [WNSAL12]. **programme** [GCS<sup>+</sup>18]. **programmes** [BTN<sup>+</sup>18]. **progression** [VPCM19]. **proinflammatory** [NSE<sup>+</sup>17]. **projections** [RSR<sup>+</sup>18]. **Proliferation** [JPG<sup>+</sup>19, EPCSBP18, RBL<sup>+</sup>11]. **proliferative** [BSW17, DMD<sup>+</sup>17, RBF14]. **promelas**

[AHRH<sup>+</sup>10, JBGP11, MGN<sup>+</sup>16, PPF<sup>+</sup>12, WBD<sup>+</sup>10b]. **propagation**  
[EYF<sup>+</sup>19, GSEM13, NMV<sup>+</sup>19]. **properties**  
[BGG11, GCMG<sup>+</sup>11, HOHG13, NWMK16, ZWL<sup>+</sup>16]. **property** [BSD<sup>+</sup>18c].  
**proposed** [TMWV14]. **Prospective** [GFW<sup>+</sup>10, JWO<sup>+</sup>10]. **prospects**  
[TDJ<sup>+</sup>10]. **protect** [GCNB16, HBH<sup>+</sup>19, LLDL13]. **protected** [ARFG13].  
**Protection** [LXHL11, SLKE10, AHPR<sup>+</sup>16, CHV<sup>+</sup>12, Dal18, JOF<sup>+</sup>19, JLJ16,  
LPA<sup>+</sup>10, MBS<sup>+</sup>19a, MSC<sup>+</sup>17, SSV<sup>+</sup>10, WBF<sup>+</sup>10]. **Protective**  
[BGD<sup>+</sup>17, CGR17, MA16, EDP<sup>+</sup>17, ESA<sup>+</sup>10, HCL<sup>+</sup>14, JJV<sup>+</sup>15, LLL<sup>+</sup>18a,  
WCR<sup>+</sup>18, YFA<sup>+</sup>17]. **protects** [BBF<sup>+</sup>15, CCLGRM<sup>+</sup>17, CSSWK10, LRC<sup>+</sup>18,  
RPMRLJ<sup>+</sup>19, SNM<sup>+</sup>16, SRB12, WHR<sup>+</sup>18]. **Protein**  
[FBVC16, BRB<sup>+</sup>12, CLWJ13, CXW<sup>+</sup>19, DJQ<sup>+</sup>12, DMB<sup>+</sup>19, DJR<sup>+</sup>19,  
FMT<sup>+</sup>14, KTK17, KREM14, LC17, MTK<sup>+</sup>10, NRMS14, NNC<sup>+</sup>18, NMIY14,  
PLCC11, RRG<sup>+</sup>19, SCK13, SNM<sup>+</sup>16, SOGR<sup>+</sup>19, VSS17, WCW16a,  
WCL<sup>+</sup>19, XXL<sup>+</sup>19, YZW<sup>+</sup>19, ZWG<sup>+</sup>18, ZWG<sup>+</sup>17, ZLN<sup>+</sup>17]. **protein-based**  
[ZWG<sup>+</sup>18]. **protein-labelled** [KTK17]. **protein-OmpU** [CLWJ13].  
**protein-to-lipid** [DMB<sup>+</sup>19]. **proteins**  
[GSEM13, GAEK<sup>+</sup>14, HLC<sup>+</sup>15, JKC<sup>+</sup>11, KREM14, LLC<sup>+</sup>11, LLL<sup>+</sup>12,  
LMAKN16, PLCC11, RAS<sup>+</sup>10, SRSF10, SRD<sup>+</sup>16, WBF<sup>+</sup>10].  
**proteobacteria** [CMR<sup>+</sup>16, KMGK<sup>+</sup>18]. **proteolytic** [SLPB18]. **Proteomic**  
[PJU<sup>+</sup>13, GPL<sup>+</sup>12, TCS19]. **protocol** [LWWS14, SEK<sup>+</sup>16, YVM<sup>+</sup>14].  
**Protopterus** [RSR<sup>+</sup>18]. **Prototheca** [JDRM17]. **protothecosis** [JDRM17].  
**Protozoa** [SPP<sup>+</sup>18]. **protozoan** [LPC<sup>+</sup>18, PZL<sup>+</sup>14]. **protozoans**  
[MUM<sup>+</sup>19]. **Province** [LQY11]. **Provisional** [GCW17]. **Prussian** [LLL<sup>+</sup>13].  
**PRV** [BHO<sup>+</sup>19, GFO<sup>+</sup>13, GB18, VCS<sup>+</sup>19]. **PRV-1** [VCS<sup>+</sup>19]. **PSD**  
[MNF<sup>+</sup>15]. **Pseudambassis** [Góm12]. **pseudobranchicola** [JNN<sup>+</sup>11].  
**Pseudocapillaria** [KWGS19, MWRSK17, MKK<sup>+</sup>11]. **Pseudocyst** [LTC17].  
**Pseudodactylogyrus** [MWS17]. **pseudodispar** [ME12]. **Pseudoloma**  
[CXK16, SSK17]. **Pseudomonas** [AJLK<sup>+</sup>18, ARFG13, BSSB18, BSD<sup>+</sup>18c,  
GPGFAG19, HZJ<sup>+</sup>19, LDEH17, LXZ<sup>+</sup>19, SM14, SBW11, ZZA<sup>+</sup>14, ZWG<sup>+</sup>17].  
**pseudomycoides** [OSAA18]. **Pseudoplatystoma** [FLC<sup>+</sup>17].  
**Pseudorasbora** [MKK<sup>+</sup>11]. **Pseudosciaena** [HZJ<sup>+</sup>19]. **Pseudoterranova**  
[BK12]. **pseudotuberculosis** [VPS<sup>+</sup>14]. **psychrophilum**  
[SBW11, BLFC12, CHV<sup>+</sup>12, CAJD<sup>+</sup>18, DMP10, DJR<sup>+</sup>19, FNISE12, GPL<sup>+</sup>12,  
HKBD15a, HKBD15b, HJN<sup>+</sup>19, HRNW15, JDH<sup>+</sup>18, JML19, KSS<sup>+</sup>15,  
LLC<sup>+</sup>11, LPCC12, MBS<sup>+</sup>19a, MBOC19, NN11, NSB<sup>+</sup>18, NOV<sup>+</sup>11, OBD<sup>+</sup>11,  
PDLW17, PLCC11, PFJ<sup>+</sup>10, RHB<sup>+</sup>15, SDWA18, SEK<sup>+</sup>16, SWE<sup>+</sup>19, SW11].  
**Pterodon** [VDO<sup>+</sup>18a]. **PTS** [XXL<sup>+</sup>19]. **puffer** [KOI<sup>+</sup>14, MKMY10]. **Puffy**  
[MNF<sup>+</sup>15]. **pulchella** [MAOS<sup>+</sup>18]. **pulcher** [ŘKH18]. **pulsed** [TAC15].  
**pulsed-field** [TAC15]. **Pulteney** [PDdC<sup>+</sup>14]. **pumpkinseed** [LDEH17].  
**punctatus** [BBF<sup>+</sup>15, LTC<sup>+</sup>14, MP18, PRSK10, RKPG16, YSK13, YK13].  
**puntazzo** [KPT<sup>+</sup>11]. **Puntius** [SMD<sup>+</sup>12]. **Purification**  
[DLCC<sup>+</sup>13, CCCTA<sup>+</sup>14]. **Purified** [RHB<sup>+</sup>15]. **Purinergic** [BSB<sup>+</sup>18].  
**purposes** [DAB<sup>+</sup>12]. **purse** [LLZW14]. **Putative**  
[LSC<sup>+</sup>14, GCNB16, GSEM13, YK12]. **putitora** [SM14]. **putrefaciens**

[CDD<sup>+</sup>18, EMA17, MP18, PKPG15]. **Pygidiopsis** [BCM<sup>+</sup>17]. **Pygocentrus** [EDSL11].

**qPCR** [AGB<sup>+</sup>19, GCNB18, GM10, GDN<sup>+</sup>16, OBD<sup>+</sup>11, VLVS<sup>+</sup>16, VCOD17]. **qPCR-based** [GCNB18]. **qRT** [ECP<sup>+</sup>10]. **qRT-PCR** [ECP<sup>+</sup>10]. **Quality** [TWNB<sup>+</sup>12, MoSMS18]. **Quantification** [OBD<sup>+</sup>11, BKS<sup>+</sup>17, CDF<sup>+</sup>18, FSO<sup>+</sup>10, GCNB18, LGC<sup>+</sup>19, PPK<sup>+</sup>13, TCF<sup>+</sup>19, VCOD17]. **quantifying** [PSR<sup>+</sup>11]. **quantitation** [NLKA16]. **Quantitative** [LLS<sup>+</sup>11, NSC<sup>+</sup>18, NWMK16, NOST<sup>+</sup>16, SSJ<sup>+</sup>19, BHT<sup>+</sup>17, CMEV17b, EAM<sup>+</sup>13, FGR<sup>+</sup>12, FSG<sup>+</sup>12, JBO<sup>+</sup>15, LGC<sup>+</sup>19, SS17, SFL<sup>+</sup>16, TSS18, VST<sup>+</sup>19]. **quarantine** [NSC<sup>+</sup>15, RHS<sup>+</sup>12]. **quaternary** [MoSMS18]. **Queensland** [BFFA<sup>+</sup>12, BDB<sup>+</sup>18, CBH<sup>+</sup>15, DDBC<sup>+</sup>15, Dig13, Dig15, OLC11, Pol15]. **quelen** [CCMA<sup>+</sup>17]. **quenching** [DSSB18]. **quinolones** [HBB<sup>+</sup>15]. **quinqueradiata** [MFS<sup>+</sup>17, YYF<sup>+</sup>10]. **Quinsam** [BPPKJ10]. **Quorum** [NDA<sup>+</sup>19, DSSB18, HBVB16, ZCQF15]. **Quoy** [CCMA<sup>+</sup>17, PC17, WCW<sup>+</sup>16b].

**r** [FMT<sup>+</sup>14]. **r-MCP43** [FMT<sup>+</sup>14]. **rabbitfish** [DRdS<sup>+</sup>10]. **Rachycentron** [CLL<sup>+</sup>10, HCL<sup>+</sup>14, HSHC<sup>+</sup>16, PSS17, SPS<sup>+</sup>17, TWYC15]. **Radiological** [FvdMF<sup>+</sup>18, RHST<sup>+</sup>16]. **Rafinesque** [AHHR<sup>+</sup>10, BBF<sup>+</sup>15, BMA13, DWL<sup>+</sup>17, HAP<sup>+</sup>10, JBGP11, LTC<sup>+</sup>14, LL11, LRB<sup>+</sup>17, LDEH17, MGN<sup>+</sup>16, PPF<sup>+</sup>12, PRSK10, RKPG16, YSK13, YK13]. **Rainbow** [DJR<sup>+</sup>19, vGJKR<sup>+</sup>17, ASA10, ASHZ<sup>+</sup>12, AOAH13, AHHR<sup>+</sup>10, AHPR<sup>+</sup>16, AJLC<sup>+</sup>16, ABT<sup>+</sup>14, AA10, AMA11, BSW17, BSPS<sup>+</sup>18, BCLM<sup>+</sup>19, BKD17, BHA<sup>+</sup>11, BE19, BA14, BLFC12, BAH<sup>+</sup>18, CSS<sup>+</sup>16, CGW<sup>+</sup>19, CHAB10, CKJ<sup>+</sup>14, CMH<sup>+</sup>17, CAJD<sup>+</sup>18, CPB<sup>+</sup>15, CLS<sup>+</sup>15, DS10, DPTFC10, DPTCF10, DMP10, DSSB18, DSSB19, DdRTM13, DdRCP13, DPADO16, DSJA18, DT16, GRB<sup>+</sup>17, GMB<sup>+</sup>17, GCNB16, GPFAG19, GDW<sup>+</sup>15, GMC<sup>+</sup>16b, HKBD15a, HKBD15b, HJN<sup>+</sup>19, JKL<sup>+</sup>13, JAJC<sup>+</sup>18, JDH<sup>+</sup>18, JML19, vGJHS<sup>+</sup>11, KSM<sup>+</sup>17, LPA<sup>+</sup>10, LP17, LLS<sup>+</sup>11, MBOC19, MNF<sup>+</sup>15, MSC<sup>+</sup>17, MCSM17, MHNY18, Mor12, MTLP<sup>+</sup>18b, MNM<sup>+</sup>18, MNM<sup>+</sup>19, NB11, NOV<sup>+</sup>11, NDA10, OP14, OLVJ<sup>+</sup>13, OBFR12, OBD<sup>+</sup>11, OSAA18, OLT<sup>+</sup>10, PDLW17, PMW<sup>+</sup>10, PMH<sup>+</sup>11, PSBG<sup>+</sup>11, PLCC11, QPB<sup>+</sup>16, RSB13, R<sup>+</sup>KH16, RCGGM15, RBL<sup>+</sup>11, RHB<sup>+</sup>15, SHJ<sup>+</sup>12, SPCR<sup>+</sup>19, SCR<sup>+</sup>15, SON<sup>+</sup>18, SSC17, VSS17, XKB12, YDO<sup>+</sup>16]. **raised** [AdOG<sup>+</sup>17, KTP<sup>+</sup>15, SBM<sup>+</sup>11]. **Ralstonia** [HBH<sup>+</sup>19]. **ram** [LFSZ18]. **ramirezi** [LFSZ18]. **ranavirus** [GJM<sup>+</sup>15, KRd<sup>+</sup>17]. **ranaviruses** [VCR<sup>+</sup>11, WBD10a]. **ranch** [SFU<sup>+</sup>13]. **Randomized** [BSBH10]. **ranga** [Góm12]. **range** [BMBS12, BGD<sup>+</sup>17, KF10a]. **ranges** [LHW<sup>+</sup>15a]. **Ranzani** [BCG<sup>+</sup>17, CHF<sup>+</sup>12]. **RAPD** [DBM<sup>+</sup>14]. **RAPD-SCAR** [DBM<sup>+</sup>14]. **Raphidascarididae** [RGMGG<sup>+</sup>18]. **Rapid** [ASSP<sup>+</sup>15, CCHL13, HJOK11, KKT<sup>+</sup>18b, LFH<sup>+</sup>11, SEM18, WSX<sup>+</sup>18, WKK12, ZFZ<sup>+</sup>11, ZLN<sup>+</sup>17, CDF<sup>+</sup>18, CZB<sup>+</sup>11, HH13b, KPSP<sup>+</sup>19, KKT<sup>+</sup>18a, LDÁM14, LXX<sup>+</sup>17, MSI<sup>+</sup>15, YWW<sup>+</sup>19, YLX<sup>+</sup>19a]. **rare**

[GKO<sup>+</sup>14]. **rate** [VDHV<sup>+</sup>16]. **rates** [MPS<sup>+</sup>18, OP14]. **Rathbun** [FSM<sup>+</sup>16]. **ratio** [DMB<sup>+</sup>19]. **Ratzeburg** [RFA<sup>+</sup>14]. **raw** [TWNB<sup>+</sup>12]. **ray** [BB11, BCJ13, VPCM19]. **rays** [BDB<sup>+</sup>18]. **razor** [PDdC<sup>+</sup>14]. **rDNA** [ZfZ<sup>+</sup>11]. **re** [BSW17, PFC<sup>+</sup>13]. **re-exposure** [BSW17]. **re-infection** [PFC<sup>+</sup>13]. **reaction** [BHT<sup>+</sup>17, BTC<sup>+</sup>17, TSS18, THW<sup>+</sup>12, YEK<sup>+</sup>17]. **reactions** [ESV<sup>+</sup>19b, GGGM14]. **reactor** [JSAB<sup>+</sup>19]. **Real** [HGB<sup>+</sup>11, JNN<sup>+</sup>11, ATM<sup>+</sup>10, AdOG<sup>+</sup>17, BKS<sup>+</sup>17, BKD17, BMBS12, CDF<sup>+</sup>18, CDG<sup>+</sup>14, DCL<sup>+</sup>17, FSO<sup>+</sup>10, FGR<sup>+</sup>12, FSG<sup>+</sup>12, GJK<sup>+</sup>11, GTH11, GBSF12, HRL15, JKS<sup>+</sup>13, KJW<sup>+</sup>12, KBJ<sup>+</sup>13, LGC<sup>+</sup>19, MMBS10, MSI<sup>+</sup>15, NLKA16, TCFáS19, YTL10, ZHFC11, vBVLR<sup>+</sup>16]. **Real-time** [HGB<sup>+</sup>11, JNN<sup>+</sup>11, ATM<sup>+</sup>10, AdOG<sup>+</sup>17, BKS<sup>+</sup>17, BKD17, BMBS12, CDF<sup>+</sup>18, CDG<sup>+</sup>14, DCL<sup>+</sup>17, FSO<sup>+</sup>10, FGR<sup>+</sup>12, FSG<sup>+</sup>12, GJK<sup>+</sup>11, GTH11, GBSF12, HRL15, JKS<sup>+</sup>13, KJW<sup>+</sup>12, KBJ<sup>+</sup>13, LGC<sup>+</sup>19, MMBS10, MSI<sup>+</sup>15, NLKA16, TCFáS19, YTL10, ZHFC11, vBVLR<sup>+</sup>16]. **reared** [APP<sup>+</sup>17, BRMG13, CONN10, DML<sup>+</sup>16, GTT<sup>+</sup>17, HMV<sup>+</sup>17, JWO<sup>+</sup>10, LHW<sup>+</sup>15a, MSS<sup>+</sup>17b, OBR<sup>+</sup>14, PSS17, PFP<sup>+</sup>13, RBWR<sup>+</sup>15, SBP<sup>+</sup>19, SMS<sup>+</sup>18, TSK<sup>+</sup>19, WBE<sup>+</sup>17, XQS<sup>+</sup>15]. **rearing** [MUM<sup>+</sup>19, MPS<sup>+</sup>18]. **Reassortant** [SODB16, SOA<sup>+</sup>18, SOGR<sup>+</sup>19]. **recaptured** [MKI<sup>+</sup>15]. **recently** [GTT<sup>+</sup>17]. **receptor** [NYRS12, VSS17]. **receptors** [NSE<sup>+</sup>17, PRSK10, SHKF16, TQW<sup>+</sup>14, ZGY<sup>+</sup>18]. **recirculating** [BTN<sup>+</sup>18]. **recirculation** [ACM<sup>+</sup>14, GDW<sup>+</sup>15, JSAB<sup>+</sup>19]. **recognized** [GCM<sup>+</sup>18b]. **recognizing** [YLS<sup>+</sup>19]. **Recombinant** [CCLGRM<sup>+</sup>17, CGW<sup>+</sup>19, EBM<sup>+</sup>18, FMT<sup>+</sup>14, vGJKR<sup>+</sup>17, LMAKN16, MTK<sup>+</sup>10, WCW16a, YSK13, ZWG<sup>+</sup>18]. **recombinase** [WSX<sup>+</sup>18]. **Recommendations** [BTN<sup>+</sup>18]. **recompressed** [PSK<sup>+</sup>12]. **record** [BMA13, HHC<sup>+</sup>18, LRB<sup>+</sup>17, MCCN14, SPP<sup>+</sup>18, SFBW<sup>+</sup>17, ZCC18]. **recovered** [DLCF13]. **Recovery** [BC11, GPWF19, OSC<sup>+</sup>14, OSA18, PSK<sup>+</sup>12, SM14, EA18, MGM<sup>+</sup>18]. **recruit** [CBM<sup>+</sup>18]. **recruits** [WOD16]. **recurrent** [VPCM19]. **red** [AMAR18, AZSSZZ13, AI11, CSS<sup>+</sup>16, DLPR15, DSLR16, EPA<sup>+</sup>10, EDSL11, GM11, ICVV16, IGLG<sup>+</sup>17, JKH<sup>+</sup>17, KKK<sup>+</sup>18, KHC<sup>+</sup>18, KLW10, LLZW14, MTG<sup>+</sup>10, PCK<sup>+</sup>15, RPMRLJ<sup>+</sup>19, XJL<sup>+</sup>19, GRB<sup>+</sup>17, GMB<sup>+</sup>17]. **red-bellied** [EDSL11]. **red-mark** [MTG<sup>+</sup>10]. **red-spotted** [KKK<sup>+</sup>18, XJL<sup>+</sup>19]. **redbanded** [LJGRI<sup>+</sup>10]. **redescription** [ZYW<sup>+</sup>10]. **Redfin** [PBM<sup>+</sup>15]. **redspotted** [CGG<sup>+</sup>10, MRN<sup>+</sup>19, ZLN<sup>+</sup>17]. **reduce** [WNO<sup>+</sup>18]. **reduced** [STF<sup>+</sup>15]. **reduces** [CBM<sup>+</sup>17, PFC<sup>+</sup>13, RHB<sup>+</sup>15]. **reducing** [SSC17]. **reduction** [LRS<sup>+</sup>17, QWTL17]. **reductions** [QZZ<sup>+</sup>18b]. **reef** [BGC<sup>+</sup>17, CDM<sup>+</sup>13, PC17]. **refeeding** [CMEV17a]. **references** [HBS<sup>+</sup>14]. **refined** [NNC<sup>+</sup>18]. **regalis** [CCM<sup>+</sup>11]. **Regan** [RhAS<sup>+</sup>15]. **regardless** [MTLP<sup>+</sup>18b]. **regime** [LAN<sup>+</sup>14]. **regimen** [RHTC19b]. **regimes** [BRL<sup>+</sup>13]. **Region** [AAUHW15, MdOO16, DPMK12, EKED<sup>+</sup>17, dSdAdS<sup>+</sup>19, BNS13]. **regions** [HZP<sup>+</sup>12, TQW<sup>+</sup>14, CCW<sup>+</sup>15]. **regius** [EKS<sup>+</sup>13, TAQ<sup>+</sup>10]. **regulation** [HGX<sup>+</sup>19, RBM<sup>+</sup>16, SJSA<sup>+</sup>14, VMBGE17, XXL<sup>+</sup>19]. **reidi**

[DSMC17, LKT<sup>+13</sup>]. **reinforced** [MKI<sup>+15</sup>]. **reinhardtii** [CSA<sup>+15</sup>]. **related** [BCLM<sup>+19</sup>, COB<sup>+16</sup>, FVAVMGE18, FSB18a, HST<sup>+13</sup>, JBO<sup>+15</sup>, JJS<sup>+12</sup>, LMM<sup>+15</sup>, LMM<sup>+16</sup>, PdLC19, SKJ13, TCC10a, WCW<sup>+16b</sup>]. **relation** [JHRW17, RAS<sup>+10</sup>]. **relationship** [LWMT10, SAD<sup>+12</sup>]. **Relationships** [OLT<sup>+10</sup>, MKKM15]. **Relative** [SMJ<sup>+14</sup>, CDG<sup>+14</sup>, FSO<sup>+10</sup>, FMH<sup>+15</sup>, GMC<sup>+16b</sup>, SSJ<sup>+19</sup>]. **relatively** [GRP<sup>+15</sup>]. **release** [HBB14]. **relevant** [PSVK<sup>+18</sup>, RHB<sup>+15</sup>, SWD<sup>+14</sup>]. **Reliability** [HWM<sup>+13</sup>]. **reliable** [Sla14]. **remarkable** [WGL17]. **remedy** [BE19]. **removal** [LL11]. **renal** [CBFM16, RHSM<sup>+18a</sup>]. **Renibacterium** [BPMI<sup>+16</sup>, BAMYAH19, EAM<sup>+13</sup>, HDWM15, áKÁGA16, LMG<sup>+19</sup>, PFJ<sup>+10</sup>, PMPG<sup>+16</sup>, STF<sup>+15</sup>]. **reovirus** [DPADO16, FSM<sup>+16</sup>, GFO<sup>+13</sup>, GMC<sup>+16a</sup>, LXHL11, MMB<sup>+15</sup>, WCR<sup>+18</sup>, WNSAL12, ZCCN13, ZCC<sup>+15</sup>, ZWG<sup>+18</sup>, ZB12, ZSZF16]. **repair** [FvdMF<sup>+18</sup>]. **repeat** [ACAS14, HZP<sup>+12</sup>]. **Repeated** [WNO<sup>+18</sup>, CAS<sup>+18</sup>, JAJC<sup>+18</sup>]. **repeats** [HZP<sup>+12</sup>, JGI<sup>+10</sup>]. **repellents** [OWM<sup>+17</sup>]. **repetitive** [CYS17, TAC15]. **repetitive-element** [CYS17]. **replication** [AGB<sup>+19</sup>, GSBEM15, GGW<sup>+11</sup>, HLP<sup>+16</sup>, JQK14, RNM<sup>+12</sup>, SOGR<sup>+19</sup>]. **Reply** [Dig15]. **report** [ALG15, ATP<sup>+16</sup>, BMK17, BRMG13, BO15, BHW<sup>+11</sup>, CIA<sup>+18</sup>, CSA<sup>+15</sup>, DBHC17, EPA<sup>+10</sup>, FKB<sup>+14</sup>, GL18, GRB<sup>+17</sup>, JDRM17, KPK<sup>+18</sup>, KDP<sup>+17</sup>, LGK<sup>+14</sup>, LFSZ18, MdOO16, MVWS13, OOO<sup>+11</sup>, SPS<sup>+17</sup>, SdMVS<sup>+16</sup>, WBE<sup>+17</sup>, ZxYJ<sup>+19</sup>]. **reported** [ZWL10]. **reports** [RBF14, SWE<sup>+19</sup>]. **representing** [KWD<sup>+16</sup>]. **reproduction** [SSA13]. **Republic** [PFP<sup>+13</sup>]. **required** [HGW<sup>+19</sup>, KZJ<sup>+17</sup>, NDA<sup>+19</sup>]. **rerio** [AMRHM18, Bin14, CXK16, CKvGJB17, EDP<sup>+17</sup>, KWGS19, LHW<sup>+12</sup>, LHW<sup>+15b</sup>, MLR<sup>+12</sup>, MWRSK17, RAM<sup>+19</sup>, SZM<sup>+15</sup>, SSK17, ZJR<sup>+18</sup>]. **research** [MPJ<sup>+15</sup>, SSK17, TMWV14]. **reservoir** [WMF14]. **reservoirs** [EA18, GB18, MSK<sup>+12</sup>]. **residence** [SMJ<sup>+12</sup>]. **resident** [áKÁGA16]. **residual** [TNK12]. **residue** [DdRCP13, DPCdR14]. **residues** [FGJ<sup>+10</sup>]. **Resistance** [JAR<sup>+11</sup>, KNN19, MRN<sup>+19</sup>, AAZS<sup>+15</sup>, BSW17, CIL<sup>+17</sup>, CKTT10, CYS17, CPB<sup>+15</sup>, DMP10, DBM<sup>+14</sup>, FCL<sup>+19</sup>, HBS<sup>+14</sup>, HBB<sup>+15</sup>, JOF<sup>+19</sup>, LKS<sup>+13</sup>, LLZW14, NB11, OLT<sup>+10</sup>, SMM<sup>+13</sup>, SWD<sup>+14</sup>, SPS<sup>+19</sup>, TCC10a, VST<sup>+19</sup>, WM19, WSA<sup>+18</sup>, ZYW<sup>+10</sup>, ZDWH18]. **resistant** [GTGCM19, GRP<sup>+15</sup>, LLX<sup>+19</sup>, LSA<sup>+15</sup>, OFA11, PBM<sup>+15</sup>, RKK<sup>+19</sup>, RHBMM13, ZCJ<sup>+18</sup>]. **resisting** [WXWD15]. **respectively** [MAOS<sup>+18</sup>]. **respiratory** [CHAB10, GCM<sup>+18b</sup>, UKS<sup>+18</sup>]. **Response** [JCN<sup>+14</sup>, JSAH<sup>+18</sup>, MGM<sup>+18</sup>, ABC<sup>+10</sup>, BSD<sup>+18b</sup>, BSB<sup>+18</sup>, BCBS<sup>+13</sup>, BAMYAH19, CLGP15, CGR17, CKJ<sup>+14</sup>, CKvGJB17, CCME16, DPC<sup>+10</sup>, DMB<sup>+16</sup>, DJR<sup>+19</sup>, DCZ<sup>+17</sup>, ELI<sup>+17</sup>, EDV<sup>+18</sup>, FBVC16, GAVC16, HGH<sup>+18</sup>, HSGD11, HKBD15b, HMW11, HGX<sup>+19</sup>, HSHC<sup>+16</sup>, JAJC<sup>+18</sup>, vGJKR<sup>+17</sup>, KBD13, LSC<sup>+14</sup>, LMM<sup>+16</sup>, LHW<sup>+12</sup>, LHW<sup>+15b</sup>, MWS17, NSC<sup>+18</sup>, NYRS12, PKLH19, PMK12, RBAT<sup>+17</sup>, RCGGM15, RSPA<sup>+18</sup>, SSSP18, SPS<sup>+19</sup>, SJS<sup>+14</sup>, TCC10a, TMC<sup>+12</sup>]. **response-related**

[LMM<sup>+</sup>16]. **responses**  
 [Ano12c, BLF<sup>+</sup>16, BGD<sup>+</sup>17, Buc12, CRS<sup>+</sup>13, CSCCA14, FSB18a, HXZ<sup>+</sup>16, HZX<sup>+</sup>13, JMF<sup>+</sup>18, JPG<sup>+</sup>19, LMC<sup>+</sup>16, MF12, MSS<sup>+</sup>17b, NNC<sup>+</sup>18, PPF<sup>+</sup>12, QZZ<sup>+</sup>18b, STS<sup>+</sup>15, SVL<sup>+</sup>17, TMM<sup>+</sup>15, YSHG18, ZZQ<sup>+</sup>19]. **responsible**  
 [MHNY18]. **restocking** [VPP<sup>+</sup>12]. **Restricted** [PMH<sup>+</sup>11]. **restriction**  
 [BCLM<sup>+</sup>19, BLF<sup>+</sup>16, RHB<sup>+</sup>15]. **Result** [TDS<sup>+</sup>19]. **results**  
 [FBAS16, GRF14, HBS<sup>+</sup>14, JWO<sup>+</sup>10, KZJ<sup>+</sup>17]. **retained** [ABM<sup>+</sup>15].  
**retention** [BDD<sup>+</sup>18]. **reticulata** [LCOZ10, SPLV<sup>+</sup>15]. **retifera** [CHF<sup>+</sup>12].  
**retinopathy** [DVC<sup>+</sup>17, GFB<sup>+</sup>13, NOST<sup>+</sup>16, VPP<sup>+</sup>12]. **retrieved**  
 [VGP<sup>+</sup>18]. **Retrospective** [CXK16, NB10]. **returning**  
 [JKO<sup>+</sup>13, LST<sup>+</sup>12, MIO<sup>+</sup>18, MMWK19]. **revealed** [WMD<sup>+</sup>18]. **reveals**  
 [BLF<sup>+</sup>16, EDN18, EPCSBP18, IBFL19, MAC<sup>+</sup>15, MLWC11, RDW18, RSPA<sup>+</sup>18, WGL17, XJL<sup>+</sup>19, ZCJ<sup>+</sup>18]. **reverse**  
 [LGD<sup>+</sup>17, TSS18, YWW<sup>+</sup>19]. **Revie** [JCN<sup>+</sup>14]. **review**  
 [DVC<sup>+</sup>17, GFS<sup>+</sup>18, MR11, Rob10, RAS<sup>+</sup>10, RE14, SAS<sup>+</sup>19, SMKBP17, WMM17, WBD10a, Dal18]. **revision** [ZWLG10]. **RFLP** [LGD<sup>+</sup>17].  
**RGNNV** [SOA<sup>+</sup>18, ZLN<sup>+</sup>17]. **Rhabdosargus** [SGR<sup>+</sup>18]. **rhabdovirus**  
 [AHB<sup>+</sup>17, BPF<sup>+</sup>18, BMMP<sup>+</sup>14, CGP<sup>+</sup>19, HMP<sup>+</sup>12, SJDC<sup>+</sup>13, SDJH16, YMH<sup>+</sup>11]. **Rhamdia** [CCMA<sup>+</sup>17]. **rhamnose** [LFD<sup>+</sup>17]. **Rhinobatos**  
 [AFA<sup>+</sup>12]. **Rhinoptera** [BB11, VPCM19]. **Rhinopteridae** [BB11]. **rhizoid**  
 [DSL16]. **Rhizoprionodon** [BA13]. **Rhodococcus** [PBMB11].  
**Rhogostoma** [DT16]. **rhombus** [LPVGL<sup>+</sup>10]. **rhusiopathiae** [CSA<sup>+</sup>15].  
**rhusiopathiae-** [CSA<sup>+</sup>15]. **ribavirin** [HLP<sup>+</sup>16]. **rice** [MRR<sup>+</sup>14, RNM<sup>+</sup>12].  
**rice-field** [MRR<sup>+</sup>14, RNM<sup>+</sup>12]. **rich** [HBH<sup>+</sup>19, YFA<sup>+</sup>17]. **Richardson**  
 [BA13, CSA<sup>+</sup>15, HBB14, KSAB<sup>+</sup>14, MKKM15, XQS<sup>+</sup>15, ZZA<sup>+</sup>14].  
**rickettsia** [BMH<sup>+</sup>19, GBO<sup>+</sup>18, LLS<sup>+</sup>11, MTG<sup>+</sup>10, RPJ<sup>+</sup>18]. **rickettsia-like**  
 [BMH<sup>+</sup>19, GBO<sup>+</sup>18, LLS<sup>+</sup>11, MTG<sup>+</sup>10, RPJ<sup>+</sup>18]. **Rickettsiales**  
 [CSS<sup>+</sup>16, GMB<sup>+</sup>17]. **Rickettsiales-like** [GMB<sup>+</sup>17]. **rifampicin**  
 [GPL<sup>+</sup>12, OFA11]. **rifampicin-attenuated** [GPL<sup>+</sup>12].  
**rifampicin-resistant** [OFA11]. **RIG** [NSE<sup>+</sup>17]. **RIG-I-like** [NSE<sup>+</sup>17]. **Risk**  
 [YAHWU11, JMD<sup>+</sup>18, KAS<sup>+</sup>18, MKKM15, NSC<sup>+</sup>15, PPF<sup>+</sup>12, TRS19, WMM<sup>+</sup>16]. **Risso** [MKH<sup>+</sup>11, RVB13, dSRSHGá<sup>+</sup>19]. **ritteri** [SPTDEE<sup>+</sup>15].  
**River** [BPPKJ10, HOHG13, JMhk18, PHR14, SBW<sup>+</sup>18, ARR<sup>+</sup>18, MKI<sup>+</sup>15, ZSZF16, BLP10, DIH<sup>+</sup>16, HWO<sup>+</sup>17, áKÁGA16, LEM<sup>+</sup>19]. **Rivers**  
 [HGPD11, LUP<sup>+</sup>18, MJ17]. **rivulatus** [YCNW18]. **RLO** [BMH<sup>+</sup>19]. **RLRs**  
 [NSE<sup>+</sup>17]. **RMS** [GRB<sup>+</sup>17]. **RNA** [CGG<sup>+</sup>10, EDN18, GMN12, HLP<sup>+</sup>16, HMP<sup>+</sup>12, KKT<sup>+</sup>18b, PPE<sup>+</sup>18, WNSAL12]. **RNA-dependent**  
 [HLP<sup>+</sup>16, CGG<sup>+</sup>10]. **RNAi** [GSBEM15]. **rock** [JJV<sup>+</sup>15, JLJ16]. **rockfish**  
 [HKK<sup>+</sup>11a, PSK<sup>+</sup>12, ZxYJ<sup>+</sup>19]. **Rodlet** [SJT14, BDM<sup>+</sup>18]. **Rodney**  
 [Rob14a]. **rogercresseyi** [BNS13, FVAVMGE18, GAVC16, GOM<sup>+</sup>19, HBS<sup>+</sup>14, MSMM19, MGM<sup>+</sup>18, VMBGE17, YAHWU11]. **rohita**  
 [KREM14, SSSP18]. **role**  
 [BCLM<sup>+</sup>19, BPCS19, DJQ<sup>+</sup>12, HGX<sup>+</sup>19, HOHG13, KSS<sup>+</sup>15, NFA15, NLC<sup>+</sup>16, NBJ10, PJZB19, RAS<sup>+</sup>10, STIG17, TWJP10, WYZ<sup>+</sup>19, XJL<sup>+</sup>19].

**Roles** [MoSMS18, WLX<sup>+</sup>10, ZZQ<sup>+</sup>19]. **roretzi** [KOS<sup>+</sup>10, PZL<sup>+</sup>14].  
**rosenbergii** [FMT<sup>+</sup>14, HO13, LYKN18, RSGB<sup>+</sup>14, SPP<sup>+</sup>18, WCW16a].  
**Rosmarinus** [ZTF<sup>+</sup>10]. **rostrata** [LML12]. **rotiferianus** [ZxYJ<sup>+</sup>19].  
**rotundus** [ZWL10]. **rough** [HRNW15]. **rougtail** [CBFM16]. **round**  
 [GFB<sup>+</sup>19]. **route** [SHJ<sup>+</sup>12]. **routes**  
 [BKD17, CMH<sup>+</sup>17, DDBC<sup>+</sup>15, FYO<sup>+</sup>11, KSA<sup>+</sup>10]. **rPCR** [LMG<sup>+</sup>19]. **rpoB**  
 [RB15]. **rpoS** [HGX<sup>+</sup>19]. **rRNA** [DPMK12, LWWS14, OBR<sup>+</sup>14, RB15]. **RT**  
 [AGB<sup>+</sup>19, GBSF12, HGB<sup>+</sup>11, JKS<sup>+</sup>13, KKT<sup>+</sup>18b, LMG<sup>+</sup>19, SKN<sup>+</sup>16,  
 VLVS<sup>+</sup>16, VCOD17, YWW<sup>+</sup>19]. **RT-LAMP** [YWW<sup>+</sup>19]. **RT-PCR**  
 [GBSF12, HGB<sup>+</sup>11, JKS<sup>+</sup>13, SKN<sup>+</sup>16]. **RT-PCR-DNA** [KKT<sup>+</sup>18b].  
**RT-qPCR** [AGB<sup>+</sup>19, VLVS<sup>+</sup>16, VCOD17]. **RT-rPCR** [LMG<sup>+</sup>19]. **RTG**  
 [PMW<sup>+</sup>10]. **RTG-2** [PMW<sup>+</sup>10]. **RTGE** [DPTCF10, RBL<sup>+</sup>11]. **rubripes**  
 [KOI<sup>+</sup>14, MKMY10]. **ruckeri** [ASA10, AHTCA<sup>+</sup>17, CMH<sup>+</sup>17, DS10,  
 DSSB18, DSSB19, GTGCM19, GCNB18, GTH11, JKL<sup>+</sup>13, KSM<sup>+</sup>17,  
 KJW<sup>+</sup>12, NCNB18, SON<sup>+</sup>18, TALA11, TDH<sup>+</sup>10, WNCR12]. **Ruditapes**  
 [ACYC10, DABO<sup>+</sup>17, FBVC16]. **Rudolphi** [FŠK<sup>+</sup>19, MGH<sup>+</sup>14]. **rudolphii**  
 [DMB<sup>+</sup>16]. **rufa** [VME<sup>+</sup>19]. **ruffe** [MGM<sup>+</sup>16]. **runts** [MGH<sup>+</sup>14]. **rupestris**  
 [BT14]. **Russia** [DKBS17]. **Russian** [RFA<sup>+</sup>14]. **ruthenus** [RHSM<sup>+</sup>18b].  
  
**s** [ZWL10, PLCC11]. **S.** [NMIY14, SWWN<sup>+</sup>16]. **sabinus** [SCZM19]. **sac**  
 [KEY<sup>+</sup>15]. **sacculitis** [LWMT10]. **Saddleback**  
 [Dig13, FPK<sup>+</sup>17, Dig15, Pol15]. **Safety** [LML12]. **salar**  
 [ACN12, ACA<sup>+</sup>16, AAV<sup>+</sup>16, ASSP<sup>+</sup>15, Ano10c, ACM<sup>+</sup>14, BSSH17,  
 BMT<sup>+</sup>15, BTC<sup>+</sup>17, BHA<sup>+</sup>17, BNS13, BSBH10, CBLN13, CJB<sup>+</sup>15,  
 CRAG<sup>+</sup>12, DTF<sup>+</sup>16, DKG<sup>+</sup>17, DLLB<sup>+</sup>18, DMB<sup>+</sup>19, DRG<sup>+</sup>17, ESBE18,  
 ECP<sup>+</sup>10, FMM<sup>+</sup>19, FFP<sup>+</sup>14, FHFF15, FMH<sup>+</sup>15, GFO<sup>+</sup>13, GFS<sup>+</sup>18,  
 GMC<sup>+</sup>16a, GSS<sup>+</sup>10, GGH<sup>+</sup>10, GAVC16, GCMG<sup>+</sup>11, GMC<sup>+</sup>16b, GBSF12,  
 GFR<sup>+</sup>12, GRT12, GHB<sup>+</sup>11, GCGR13, HHO14, HSA17, HST<sup>+</sup>13, IPW<sup>+</sup>13,  
 IAR<sup>+</sup>10, JCN<sup>+</sup>13, JKO<sup>+</sup>13, JCN<sup>+</sup>14, JWO<sup>+</sup>10, JTW<sup>+</sup>10, JBO<sup>+</sup>15, JOF<sup>+</sup>19,  
 JNS<sup>+</sup>19, JHGR13, JJSJ15, KAF<sup>+</sup>19, KSA<sup>+</sup>10, KRFT14, KBD13, KWD<sup>+</sup>16,  
 LDÁM14, LAN<sup>+</sup>14, LMG<sup>+</sup>19, MKI<sup>+</sup>15, MIO<sup>+</sup>18, MMWK19, MSMM19,  
 MSG<sup>+</sup>18, MLMR16, MLER<sup>+</sup>18, MSBB<sup>+</sup>16, MLF<sup>+</sup>10, MRSC13, MAC<sup>+</sup>15,  
 MID<sup>+</sup>19b, MID<sup>+</sup>19a, MSR<sup>+</sup>10, MGH<sup>+</sup>14, MMH10, NCNB18, NB10, PdLC19,  
 PBMB11, PHVM13, PPK<sup>+</sup>13, PPI<sup>+</sup>13, PÁD18, PJU<sup>+</sup>13, RB15, RMR14,  
 RSIP<sup>+</sup>17, SMR10, SMM<sup>+</sup>13, SHKF16, SFR<sup>+</sup>17, SAS<sup>+</sup>19, SFU<sup>+</sup>13]. **salar**  
 [SG12, STES14, SWWN<sup>+</sup>16, SWS<sup>+</sup>16, SKJ13, SSA13, SNK<sup>+</sup>19, TWNB<sup>+</sup>12,  
 TJB<sup>+</sup>15, TCC10a, TES11, TCM<sup>+</sup>19, Tre12, USM17, VSDS<sup>+</sup>19a, VDMJ<sup>+</sup>13,  
 WDM<sup>+</sup>15, WMM<sup>+</sup>16, WNLF<sup>+</sup>12, WNSAL12, WNAF<sup>+</sup>13, WNMK<sup>+</sup>16,  
 WNAJ<sup>+</sup>16, YP17, ZCCN13, ZNHC11a, ZNHC11b]. **Salaria** [VPP<sup>+</sup>12].  
**salaris** [HHO14, HKG<sup>+</sup>15, KHG<sup>+</sup>17, PHVM13, WKK12]. **salinities**  
 [NNCLGC<sup>+</sup>11]. **salinity** [CCHL13, KCL14, LTC17, PST<sup>+</sup>16, TTL<sup>+</sup>16].  
**Salmincola** [VCLW16, STF<sup>+</sup>15]. **Salmo**  
 [ACN12, AGFG19, ACA<sup>+</sup>16, AAV<sup>+</sup>16, ASSP<sup>+</sup>15, Ano10c, ACM<sup>+</sup>14,  
 BSPS<sup>+</sup>18, BSSH17, BMT<sup>+</sup>15, BTC<sup>+</sup>17, BHA<sup>+</sup>17, BNS13, BSBH10, CBLN13,

CJB<sup>+15</sup>, CRAG<sup>+12</sup>, DTF<sup>+16</sup>, DKG<sup>+17</sup>, DLLB<sup>+18</sup>, DMB<sup>+19</sup>, DRG<sup>+17</sup>,  
 ESBE18, ECP<sup>+10</sup>, FMM<sup>+19</sup>, FFP<sup>+14</sup>, FHFF15, FMH<sup>+15</sup>, GFO<sup>+13</sup>,  
 GFS<sup>+18</sup>, GMG<sup>+19</sup>, GMC<sup>+16a</sup>, GSS<sup>+10</sup>, GGH<sup>+10</sup>, GAVC16, GCMG<sup>+11</sup>,  
 GMC<sup>+16b</sup>, GBSF12, GFR<sup>+12</sup>, GRT12, GHB<sup>+11</sup>, GCGR13, HHO14, HSA17,  
 HST<sup>+13</sup>, IPW<sup>+13</sup>, IAR<sup>+10</sup>, JCN<sup>+13</sup>, JKO<sup>+13</sup>, JCN<sup>+14</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>,  
 JBO<sup>+15</sup>, JOF<sup>+19</sup>, JNS<sup>+19</sup>, JHGR13, JJSJ15, KAF<sup>+19</sup>, KSA<sup>+10</sup>, KRFT14,  
 KBD13, KWD<sup>+16</sup>, LDÁM14, LAN<sup>+14</sup>, LMG<sup>+19</sup>, MKI<sup>+15</sup>, MIO<sup>+18</sup>,  
 MMWK19, MSMM19, MSG<sup>+18</sup>, MLMR16, MLER<sup>+18</sup>, MSBB<sup>+16</sup>, MLF<sup>+10</sup>,  
 MRSC13, MAC<sup>+15</sup>, MID<sup>+19b</sup>, MID<sup>+19a</sup>, MSR<sup>+10</sup>, MGH<sup>+14</sup>, MMH10,  
 NCNB18, NB10, OSC<sup>+14</sup>, PdLC19, PBMB11, PGF<sup>+19</sup>, PHVM13, PPK<sup>+13</sup>,  
 PPI<sup>+13</sup>, PÁD18, PJU<sup>+13</sup>, RB15, RMR14, RSIP<sup>+17</sup>, SMR10]. **Salmo**  
 [SMM<sup>+13</sup>, SHKF16, SFR<sup>+17</sup>, SAS<sup>+19</sup>, SFU<sup>+13</sup>, SG12, STES14, SWWN<sup>+16</sup>,  
 SWS<sup>+16</sup>, SKJ13, SSA13, SNK<sup>+19</sup>, TWNB<sup>+12</sup>, TJB<sup>+15</sup>, TCC10a, TES11,  
 TCM<sup>+19</sup>, Tre12, USM17, VSDS<sup>+19a</sup>, VDMJ<sup>+13</sup>, WDM<sup>+15</sup>, WMM<sup>+16</sup>,  
 WNLF<sup>+12</sup>, WNSAL12, WNAF<sup>+13</sup>, WNMK<sup>+16</sup>, WNAJ<sup>+16</sup>, YP17, ZCCN13,  
 ZNHC11a, ZNHC11b]. **salmoides** [CGAS19, PBBG19, ZLX<sup>+19</sup>]. **Salmon**  
 [CCCTA<sup>+14</sup>, GTT<sup>+17</sup>, GCM<sup>+18b</sup>, LASRA<sup>+19</sup>, TJA<sup>+13</sup>, AHH16, AH16,  
 ADF14, ADMF15, ATM<sup>+10</sup>, ACN12, AAUHW15, ACA<sup>+16</sup>, AAV<sup>+16</sup>,  
 ASSP<sup>+15</sup>, Ano10c, ACM<sup>+14</sup>, AHTCA<sup>+17</sup>, BHT<sup>+17</sup>, BHO<sup>+19</sup>, BMT<sup>+15</sup>,  
 BTC<sup>+17</sup>, BHA<sup>+17</sup>, BPPKJ10, BLP10, BNS13, BMH<sup>+19</sup>, BDD<sup>+18</sup>, BSBH10,  
 CBLN13, CJB<sup>+15</sup>, CGR17, CHWM<sup>+19</sup>, CRAG<sup>+12</sup>, DTF<sup>+16</sup>, DKG<sup>+17</sup>,  
 DWP<sup>+19</sup>, DPD<sup>+18</sup>, DLLB<sup>+18</sup>, DMB<sup>+19</sup>, DRG<sup>+17</sup>, DPADO16, DYML<sup>+18</sup>,  
 EYF<sup>+19</sup>, EDN18, ESBE18, ECP<sup>+10</sup>, EWRH13, FMM<sup>+19</sup>, FSB18a, FFP<sup>+14</sup>,  
 FHFF15, FMH<sup>+15</sup>, FSV<sup>+18</sup>, FSB<sup>+18c</sup>, GL18, GFO<sup>+13</sup>, GFS<sup>+18</sup>, GGMG18b,  
 GVB<sup>+17b</sup>, GBO<sup>+18</sup>, Gis18, GTH11, GSS<sup>+10</sup>, GGH<sup>+10</sup>, GCMG<sup>+11</sup>,  
 GMC<sup>+16b</sup>, GFW<sup>+10</sup>, GBSF12, GFR<sup>+12</sup>, GRT12, GHB<sup>+11</sup>, GCGR13,  
 GCS<sup>+18</sup>, HHO14, HWM<sup>+13</sup>, HGH<sup>+18</sup>, HSA17, HST<sup>+13</sup>, IAR<sup>+10</sup>, IOO15,  
 JCN<sup>+13</sup>, JKO<sup>+13</sup>, JCN<sup>+14</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, JJB15, JMF<sup>+18</sup>, JBO<sup>+15</sup>,  
 JOF<sup>+19</sup>, JNS<sup>+19</sup>, JR19, JHGR13, JJSJ15, KOB<sup>+17</sup>, KBE<sup>+14</sup>]. **salmon**  
 [KAF<sup>+19</sup>, KHG<sup>+17</sup>, KSA<sup>+10</sup>, KRFT14, KBD13, KWD<sup>+16</sup>, LDÁM14,  
 LAN<sup>+14</sup>, LMG<sup>+19</sup>, LDA<sup>+19</sup>, LST<sup>+12</sup>, LF16, LF18, LGJ19, LWMT10,  
 MKI<sup>+15</sup>, MIO<sup>+18</sup>, MMWK19, MSMM19, MSG<sup>+18</sup>, MLMR16, MLER<sup>+18</sup>,  
 MSBB<sup>+16</sup>, MLF<sup>+10</sup>, MRSC13, MAC<sup>+15</sup>, MID<sup>+19b</sup>, MID<sup>+19a</sup>, MSR<sup>+10</sup>,  
 MUM<sup>+19</sup>, MGH<sup>+14</sup>, MTHB13, MPS<sup>+18</sup>, MMH10, NRF<sup>+18</sup>, NCNB18, NB10,  
 NLC<sup>+16</sup>, NBJ10, OWM<sup>+17</sup>, OM10, OBFR12, PdLC19, PBMB11, PHVM13,  
 PPK<sup>+13</sup>, PPI<sup>+13</sup>, PÁD18, PJU<sup>+13</sup>, PMPG<sup>+16</sup>, PPE<sup>+18</sup>, RB15, RMR14,  
 RRG<sup>+19</sup>, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, SMR10, SMJ<sup>+12</sup>, SMM<sup>+13</sup>, SFR<sup>+17</sup>,  
 SAS<sup>+19</sup>, STF<sup>+15</sup>, SFU<sup>+13</sup>, SG12, STES14, SWWN<sup>+16</sup>, SWS<sup>+16</sup>, SJK<sup>+14</sup>,  
 SVY<sup>+14</sup>, SSA13, SSL18, SNK<sup>+19</sup>, TWNB<sup>+12</sup>, TJB<sup>+15</sup>, TCC10a, TVK<sup>+19</sup>,  
 TES11, TES16, TCM<sup>+19</sup>, Tre12, UMMS17, USM17, UKS<sup>+18</sup>, VSDS<sup>+19a</sup>,  
 VDMJ<sup>+13</sup>, VMBGE17, WDM<sup>+15</sup>, WMM<sup>+16</sup>, WHR<sup>+18</sup>, WNLF<sup>+12</sup>,  
 WNSAL12, WNAF<sup>+13</sup>, WNMK<sup>+16</sup>, WNAJ<sup>+16</sup>, WNGS<sup>+17</sup>]. **salmon**  
 [WOD16, WNO<sup>+18</sup>, YP17, ZCCN13, ZCC<sup>+15</sup>, ZNHC11a, ZNHC11b,  
 BSSH17, GMC<sup>+16a</sup>, LLLG18, WNGS<sup>+17</sup>]. **salmonicida**



[BBP18, MLEM16, NLC<sup>+16</sup>, SWM<sup>+15</sup>, VSS17, BKS<sup>+17</sup>, BKD17, BLFRCQ10, BVK<sup>+16</sup>, DLCF13, EDV<sup>+18</sup>, GDN<sup>+16</sup>, GLK<sup>+16</sup>, HKK<sup>+11a</sup>, KBJ<sup>+13</sup>, KBD13, MSC<sup>+17</sup>, MLEM16, NLC<sup>+16</sup>, PFJ<sup>+10</sup>, RVC18, RPM<sup>+19</sup>, SSHEM11, SSC17, VSS17, VSDS<sup>+19a</sup>, VDD<sup>+18</sup>, VC17, YFA<sup>+17</sup>].

**salmonicola** [MSR<sup>+10</sup>]. **Salmonid** [Ano10c, JTW<sup>+10</sup>, BKG<sup>+18</sup>, BTC<sup>+17</sup>, CGR17, DLCF13, EBM<sup>+18</sup>, FGR<sup>+12</sup>, GB18, GFW<sup>+10</sup>, GFM<sup>+11</sup>, GFR<sup>+12</sup>, GRF14, HDWM15, HFT<sup>+12</sup>, HST<sup>+13</sup>, HJT<sup>+16</sup>, HB12, JJB15, JJM<sup>+17</sup>, MIO<sup>+18</sup>, MR11, NSE<sup>+17</sup>, PSR<sup>+11</sup>, RSP<sup>+17</sup>, RSM<sup>+18</sup>, SJDC<sup>+13</sup>, SBH<sup>+16</sup>, SHV<sup>+16</sup>, SKJ13, TJB<sup>+15</sup>, WKW<sup>+11</sup>, WNCR12, YSV<sup>+13</sup>, YVM<sup>+14</sup>].

**salmonids** [BSPS<sup>+18</sup>, BRB<sup>+12</sup>, CLGP15, CHV<sup>+12</sup>, GGGM18b, GAC10, JNN<sup>+11</sup>, áKÁGA16, KKKA17, MMB<sup>+15</sup>, MJ17, RMSH09, SDWA18, TJA<sup>+13</sup>, VCS<sup>+19</sup>, YAHWU11]. **salmoninarum** [BPMI<sup>+16</sup>, BAMYAH19, EAM<sup>+13</sup>, HDWM15, áKÁGA16, LMG<sup>+19</sup>, PFJ<sup>+10</sup>, PMPG<sup>+16</sup>, STF<sup>+15</sup>, TCFás19, TCS19, YDO<sup>+16</sup>]. **salmoninarum-infected** [HDWM15]. **salmoniphilum** [ACM<sup>+14</sup>, RFA<sup>+14</sup>, ZNHC11a, ZNHC11b].

**salmonis** [FSB18a, WNGS<sup>+17</sup>, AHH16, AH16, BRL<sup>+13</sup>, BDD<sup>+18</sup>, CRO<sup>+18</sup>, CIL<sup>+17</sup>, DLLB<sup>+18</sup>, DRG<sup>+17</sup>, EDN18, FCL<sup>+19</sup>, GAC10, GCGR13, HH13b, HBB<sup>+15</sup>, HKB<sup>+16</sup>, IPW<sup>+13</sup>, ISCF<sup>+19</sup>, JCN<sup>+13</sup>, JCN<sup>+14</sup>, JR19, JHGR13, KRFT14, LCV<sup>+17</sup>, LLG<sup>+15</sup>, LP17, LGJ19, MB17, MSG<sup>+18</sup>, MLRS<sup>+17</sup>, MFHHG18, MID<sup>+19b</sup>, MUM<sup>+19</sup>, NRF<sup>+18</sup>, NLC<sup>+16</sup>, NBJ10, OWM<sup>+17</sup>, OM10, PVIM18, PJZB19, PPI<sup>+13</sup>, PFC<sup>+13</sup>, RGD<sup>+13</sup>, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, RE14, SHO<sup>+17</sup>, SMR10, SMM<sup>+13</sup>, SMR16, SHKF16, SFU<sup>+13</sup>, SDR<sup>+15</sup>, SCR<sup>+15</sup>, SSA13, USM17, WWE<sup>+13</sup>, YSV<sup>+13</sup>, YVM<sup>+14</sup>]. **salts** [SHS14].

**saltwater** [HCCM12]. **Salvelinus** [CMR<sup>+16</sup>, DGS<sup>+14</sup>, SWM<sup>+15</sup>, WKK12].

**sample** [ZCCN13]. **samples** [CPdPP16, FSG<sup>+12</sup>, HSA17, LTM<sup>+19</sup>, TSS18, TVK<sup>+19</sup>]. **sampling** [FCM<sup>+19</sup>, MTAB15]. **sand** [LL11]. **Sander** [BAH<sup>+16</sup>, GRP<sup>+15</sup>, VBL<sup>+16</sup>, VKK<sup>+19</sup>]. **sandwich** [ZLN<sup>+17</sup>].

**sanguinarine** [LWJ<sup>+16</sup>]. **sanguineus** [HCW<sup>+16</sup>, ZWY<sup>+11</sup>]. **Santa** [CdAPdC<sup>+19</sup>]. **Santos** [DAO19]. **sapidus** [FSM<sup>+16</sup>]. **Saprolegnia** [AS17, ASS19, KBE<sup>+14</sup>, PPF<sup>+12</sup>, RDW18, SCD19, SSSP18, STES14, SWWN<sup>+16</sup>, SWS<sup>+16</sup>, TFG19, TES11, TES16]. **saprolegniasis** [BAH<sup>+16</sup>].

**saprolegniosis** [AGFG19, GPFAG19]. **sarana** [SMD<sup>+12</sup>]. **sarba** [SGR<sup>+18</sup>]. **sarcoma** [CIA<sup>+18</sup>]. **sardine** [GMP<sup>+11</sup>]. **Sardinella** [GMP<sup>+11</sup>]. **Sardinia** [APP<sup>+17</sup>]. **Saskatchewan** [SGQ<sup>+15</sup>]. **sativa** [MA16]. **sativum** [MSCH14]. **saurida** [KSAB<sup>+14</sup>]. **Sauvage** [BAD<sup>+12</sup>, CTK<sup>+10</sup>, SMV<sup>+14</sup>, SZZSFN<sup>+14</sup>]. **SAV** [Ano10c, JTW<sup>+10</sup>, KSA<sup>+10</sup>, NSE<sup>+17</sup>, RRG<sup>+19</sup>, SBH<sup>+16</sup>]. **SAV2** [HST<sup>+13</sup>]. **SAV3** [BTC<sup>+17</sup>, CGR17, JMF<sup>+18</sup>]. **saxatilis** [DBS12, SBM<sup>+11</sup>]. **scad** [BHW<sup>+11</sup>, HHM<sup>+14</sup>]. **scale** [ASB<sup>+12</sup>, GKCC<sup>+12</sup>, SPP<sup>+18</sup>, SDM<sup>+19</sup>, ZDWH18]. **scallop** [BRL<sup>+13</sup>].

**scanning** [BCM<sup>+17</sup>]. **SCAR** [DBM<sup>+14</sup>]. **scherzeri** [KHC<sup>+18</sup>, SWD<sup>+14</sup>]. **Schistocephalus** [WFH<sup>+18</sup>]. **Schlegel** [CONN10, FNISE12, GHH<sup>+11</sup>, HKK<sup>+11b</sup>, JKC<sup>+11</sup>, JJV<sup>+15</sup>, KSS<sup>+15</sup>, KYK<sup>+12</sup>, KLW10, LKS<sup>+13</sup>,

MKK<sup>+11</sup>, MKMY<sup>10</sup>, NSS<sup>+17</sup>, OMO<sup>+15</sup>, SSJ<sup>+19</sup>, YYF<sup>+10</sup>, ZCC<sup>18</sup>].  
**schlegeli** [HKK<sup>+11a</sup>]. **schlegelii** [LLDL<sup>13</sup>, ZxYJ<sup>+19</sup>]. **Schlei** [KAST<sup>17</sup>].  
**Schneider** [CCM<sup>+11</sup>]. **schubertii** [CLZ<sup>+12</sup>, LL<sup>12</sup>, LGC<sup>+19</sup>]. **Schultz**  
 [LLG<sup>+15</sup>]. **schwanenfeldii** [ARR<sup>+18</sup>]. **schwannoma** [MLR<sup>+12</sup>].  
**Sciaenidae** [EKS<sup>+13</sup>]. **Sciaenocotyle** [TAQ<sup>+10</sup>]. **Scleropages** [KVC<sup>+16</sup>].  
**Scombridae** [CZB<sup>+11</sup>]. **scophthalmi** [ERApSB<sup>14</sup>]. **Scophthalmus**  
 [HMW<sup>11</sup>, LPVGL<sup>+10</sup>, LBF<sup>+14</sup>, MBB<sup>12</sup>, QXW<sup>14</sup>, SODB<sup>16</sup>, WM<sup>19</sup>,  
 dOAPLá<sup>+17</sup>]. **Scophthalmus** [JCS<sup>11</sup>]. **Scortum** [KRD<sup>+17</sup>, LLH<sup>+14b</sup>].  
**Scotia** [SCD<sup>19</sup>]. **Scotland**  
 [GFR<sup>+12</sup>, GWM<sup>12</sup>, MMH<sup>10</sup>, SMR<sup>16</sup>, SDI<sup>+18</sup>, SWE<sup>+19</sup>]. **Scottish**  
 [MMBS<sup>10</sup>, MRSC<sup>13</sup>, WMM<sup>+16</sup>, WMM<sup>17</sup>]. **screen** [LPCC<sup>12</sup>]. **screening**  
 [AHH<sup>16</sup>, AH<sup>16</sup>, AS<sup>17</sup>, ABF<sup>15</sup>, BLFC<sup>12</sup>, CMS<sup>+19</sup>, GSEM<sup>13</sup>, XZZ<sup>16</sup>].  
**scuticociliate** [OBR<sup>+14</sup>]. **scuticociliates** [QZZ<sup>+18b</sup>]. **Scuticociliatida**  
 [SPP<sup>+18</sup>]. **scuticociliatosis** [LPC<sup>+18</sup>, MDF<sup>+17</sup>]. **scuticociliatosis-causing**  
 [LPC<sup>+18</sup>]. **Scyborskaya** [PB<sup>18</sup>]. **Scylla** [LQY<sup>11</sup>]. **Scyphozoa** [PÁD<sup>18</sup>].  
**Sea** [BT<sup>13</sup>, EWRH<sup>13</sup>, HGH<sup>+18</sup>, JKO<sup>+13</sup>, Kan<sup>18</sup>, PBC<sup>15</sup>, PdLC<sup>19</sup>, VPS<sup>+14</sup>,  
 ACSB<sup>+19</sup>, BRL<sup>+13</sup>, BC<sup>11</sup>, BCBS<sup>+13</sup>, BCW<sup>+15</sup>, CD<sup>17</sup>, CKTT<sup>10</sup>, CB<sup>13</sup>,  
 DJQ<sup>+12</sup>, DdRTM<sup>13</sup>, DPCdR<sup>14</sup>, FVAVMGE<sup>18</sup>, FPK<sup>+17</sup>, GFO<sup>+13</sup>, GBV<sup>+16</sup>,  
 GVB<sup>+17b</sup>, GVB<sup>+17a</sup>, Gis<sup>18</sup>, GCGR<sup>13</sup>, HH<sup>13a</sup>, HH<sup>13b</sup>, HBS<sup>+14</sup>, JMD<sup>+18</sup>,  
 JWO<sup>+10</sup>, JKH<sup>+17</sup>, JHGR<sup>13</sup>, KPT<sup>+11</sup>, KJB<sup>11</sup>, KHC<sup>+18</sup>, KLW<sup>10</sup>, LMC<sup>+16</sup>,  
 LQL<sup>+10</sup>, LGS<sup>+14</sup>, MIO<sup>+18</sup>, MSMM<sup>19</sup>, MMH<sup>+18</sup>, MSS<sup>+17b</sup>, NRF<sup>+18</sup>,  
 NOST<sup>+16</sup>, PST<sup>+16</sup>, PJU<sup>+13</sup>, PFC<sup>+13</sup>, RGD<sup>+12</sup>, RHVG<sup>+19b</sup>, SMR<sup>10</sup>,  
 SMM<sup>+13</sup>, SCF<sup>+13</sup>, SDI<sup>+18</sup>, Sam<sup>10</sup>, SDJH<sup>16</sup>, SFU<sup>+13</sup>, SJK<sup>+14</sup>, SSL<sup>18</sup>,  
 TPD<sup>+19</sup>, TMC<sup>+12</sup>, TNK<sup>12</sup>, VDMJ<sup>+13</sup>, VTM<sup>+14</sup>, WWE<sup>+13</sup>, WOD<sup>16</sup>,  
 YAHWU<sup>11</sup>, AHB<sup>+17</sup>, GFB<sup>+13</sup>, GVLE<sup>16</sup>, LZGZ<sup>16</sup>, LHW<sup>+15a</sup>, LXL<sup>+18</sup>,  
 PMP<sup>+18</sup>, RBWR<sup>+15</sup>, VDD<sup>+18</sup>, WMF<sup>14</sup>]. **sea-caught** [MIO<sup>+18</sup>].  
**sea-ranched** [SFU<sup>+13</sup>]. **sea-reared** [JWO<sup>+10</sup>]. **sea-trout** [GFO<sup>+13</sup>].  
**seabass** [FCM<sup>+19</sup>, GKCC<sup>+12</sup>, KNN<sup>19</sup>, RRC<sup>+17</sup>]. **seabream**  
 [CVLJ<sup>+10</sup>, CVGR<sup>+13</sup>, CCME<sup>16</sup>, LLDL<sup>13</sup>, LJGRI<sup>+10</sup>, RVB<sup>13</sup>, SGR<sup>+18</sup>].  
**seadragon** [LYD<sup>+15</sup>]. **Seahorse**  
 [QZZ<sup>+18b</sup>, DSMC<sup>17</sup>, LYD<sup>+15</sup>, LKT<sup>+13</sup>, QWTL<sup>17</sup>, SBHC<sup>18</sup>, ZZQ<sup>+19</sup>].  
**seahorses** [BQP<sup>12</sup>, DCV<sup>+14</sup>, OBR<sup>+14</sup>, WZQ<sup>+16</sup>]. **seal** [BK<sup>12</sup>]. **Search**  
 [CIL<sup>+17</sup>]. **Seasonal** [EA<sup>18</sup>, LFL<sup>19</sup>, SJK<sup>+14</sup>]. **Seasonality** [YB<sup>17</sup>, YMBE<sup>13</sup>].  
**seatrout** [GMG<sup>+19</sup>]. **seawater**  
 [Ano<sup>10c</sup>, GTT<sup>+17</sup>, HRL<sup>15</sup>, JTW<sup>+10</sup>, JMF<sup>+18</sup>, KOB<sup>+17</sup>, SMJ<sup>+12</sup>].  
**seawater-farmed** [KOB<sup>+17</sup>]. **seawater-reared** [GTT<sup>+17</sup>]. **sebae**  
 [BRMG<sup>13</sup>]. **Sebastes** [HKK<sup>+11a</sup>, PSK<sup>+12</sup>, ZxYJ<sup>+19</sup>]. **Secondary**  
 [JAJC<sup>+18</sup>, ATJS<sup>+18</sup>, HFKF<sup>17</sup>, RSB<sup>13</sup>]. **secreted** [ZWG<sup>+17</sup>]. **secretion**  
 [EAN<sup>+18</sup>, MSG<sup>+18</sup>, RGD<sup>+13</sup>]. **secretory** [CXW<sup>+19</sup>]. **sectional**  
 [AAUHW<sup>15</sup>]. **seeds** [MA<sup>16</sup>]. **seeking** [OWM<sup>+17</sup>]. **segment** [PAM<sup>+19</sup>].  
**Selar** [HHM<sup>+14</sup>]. **selected** [AAZS<sup>+15</sup>, BMGS<sup>17</sup>, DAB<sup>+12</sup>, EAM<sup>+13</sup>,  
 EEMCEGSP<sup>16</sup>, NJK<sup>+17</sup>, SPCR<sup>+19</sup>, TvWO<sup>+16</sup>]. **Selection**  
 [SPS<sup>+19</sup>, YLS<sup>+19</sup>, GTGCM<sup>19</sup>]. **Selective**  
 [BTC<sup>+17</sup>, CLW<sup>+11</sup>, CLT<sup>+14</sup>, SMF<sup>+10</sup>]. **selenium** [WPH<sup>+13</sup>]. **semi**

[CMEV17b, STS<sup>+15</sup>]. **semi-intensive** [STS<sup>+15</sup>]. **semi-quantitative** [CMEV17b]. **semilaevis** [XJL<sup>+15</sup>, ZQB<sup>+11</sup>]. **seminatural** [HKG<sup>+15</sup>]. **senegalensis** [CVLJ<sup>+10</sup>, CTD<sup>+12</sup>, CPP14, CPdPP16, CRS<sup>+13</sup>, CSCCA14, FBL<sup>+14</sup>, LVADB17, MMS<sup>+16</sup>, SOA<sup>+18</sup>, VFB<sup>+12</sup>, YB17, dALF<sup>+17</sup>]. **Senegalese** [CVLJ<sup>+10</sup>, CTD<sup>+12</sup>, CRS<sup>+13</sup>, CSCCA14, FBL<sup>+14</sup>, LVADB17, MMS<sup>+16</sup>, YB17, dALF<sup>+17</sup>]. **senile** [ARL<sup>+17</sup>]. **sensing** [HBVB16, NDA<sup>+19</sup>, ZCQF15]. **sensitive** [GCNB18, HJOK11, MMBS10, MSI<sup>+15</sup>, SMF<sup>+10</sup>, WOD16, YWW<sup>+19</sup>, ZLN<sup>+17</sup>]. **Sensitivity** [AdOG<sup>+17</sup>, MMH<sup>+18</sup>, MTAB15, PFP<sup>+13</sup>, HH13b, ZCJ<sup>+18</sup>]. **sensory** [FSB18a]. **septemfasciatus** [OTN<sup>+12</sup>]. **septempunctata** [TOK<sup>+16</sup>]. **septicaemia** [AHR<sup>+10</sup>, AHRP<sup>+16</sup>, Ano12c, CBC<sup>+13</sup>, CDM<sup>+16</sup>, CSA<sup>+15</sup>, DPADO16, EKED<sup>+17</sup>, GJVT<sup>+11</sup>, GFB<sup>+19</sup>, GGW<sup>+11</sup>, GVC<sup>+19</sup>, HLL<sup>+12</sup>, HGG<sup>+11</sup>, HPAL10, JKS<sup>+13</sup>, KKK15, KF10a, KF10b, LVADB17, MMBS10, MF12, MMW<sup>+15</sup>, NLF11, OEG<sup>+13</sup>, PBM<sup>+15</sup>, PJJ<sup>+12</sup>, RMS<sup>+13</sup>, SHJ<sup>+12</sup>, SWH<sup>+14</sup>, SJ11, VLVS<sup>+16</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, WDM<sup>+15</sup>, WKW<sup>+11</sup>, ZLX<sup>+19</sup>]. **septicaemic** [OCLI<sup>+19</sup>]. **septum** [FFP<sup>+14</sup>]. **sequence** [FMA<sup>+19</sup>, ISCF<sup>+19</sup>, JSK<sup>+10</sup>, KKM<sup>+19</sup>, MBS<sup>+17</sup>, NMM<sup>+18</sup>, RDW18, VJWC<sup>+18</sup>, WMD<sup>+18</sup>, YMH<sup>+11</sup>]. **sequences** [OBR<sup>+14</sup>, RB15, TQW<sup>+14</sup>]. **sequencing** [BFC<sup>+15</sup>, CGG<sup>+10</sup>, DWL<sup>+17</sup>, EDN18, LMM<sup>+16</sup>]. **sequential** [MBT<sup>+17</sup>]. **sera** [GRF14, LLL<sup>+12</sup>]. **Serbian** [RAM<sup>+18</sup>]. **Seriola** [KHS11, MFS<sup>+17</sup>, MKH<sup>+11</sup>, NWMK16, RBAT<sup>+17</sup>, STIG17, SS17, YYF<sup>+10</sup>, dSRSHGá<sup>+19</sup>]. **seriolae** [CXW<sup>+19</sup>, KLD<sup>+18</sup>, STIG17, WCL<sup>+19</sup>]. **seriolicida** [MFS<sup>+17</sup>]. **sero** [LMAKN16]. **sero-surveillance** [LMAKN16]. **Serodiagnosis** [KKK15]. **Serological** [SDWA18, IAR<sup>+10</sup>]. **serotype** [AOAH13, AHTCA<sup>+17</sup>, BAH<sup>+18</sup>, RB15]. **serotypes** [HKK<sup>+11b</sup>]. **serovars** [FLVA10]. **Serranidae** [LXL<sup>+18</sup>, PMP<sup>+18</sup>]. **Serrasalminidae** [ANB<sup>+19</sup>, OMB<sup>+19</sup>, VDO<sup>+18b</sup>, VDO<sup>+18a</sup>]. **serrata** [LQY11]. **Serratia** [CBC<sup>+13</sup>]. **Serum** [BSD<sup>+18a</sup>, BMT<sup>+15</sup>, BSD<sup>+18d</sup>, CLC<sup>+17</sup>, LWMT10, NN11, PBC15, YK13]. **set** [GTH11]. **seven** [CGCAH12, MTAB15, PMK12]. **sevenband** [OTN<sup>+12</sup>, OKS<sup>+13</sup>]. **several** [PPE<sup>+18</sup>]. **Severe** [KHS11, CZB<sup>+11</sup>, VFB<sup>+12</sup>]. **severity** [LLS<sup>+11</sup>]. **sex** [CXK16, FVAVMGE18]. **sex-related** [FVAVMGE18]. **SGIV** [GHH<sup>+11</sup>]. **SGPV** [GGMG18b]. **shad** [WBE<sup>+17</sup>, WEPB<sup>+18</sup>]. **sharing** [MPJ<sup>+15</sup>]. **shark** [ABM<sup>+15</sup>, BA13, CBC<sup>+13</sup>, CIA<sup>+18</sup>, HKF<sup>+16</sup>, JK12, LL11, MCWL13, RBF14]. **sharkminnows** [RTM<sup>+15</sup>]. **sharks** [BOH<sup>+12</sup>, PC17]. **sharp** [OAO<sup>+12</sup>]. **sharp-tooth** [OAO<sup>+12</sup>]. **sharpnose** [BA13]. **sharpsnout** [KPT<sup>+11</sup>]. **sharptooth** [HGPD11, HOHG13, TMWV14]. **shasta** [HB12]. **shed** [RRO<sup>+13</sup>]. **shell** [ARL<sup>+17</sup>, DABO<sup>+17</sup>, MMD16, SQC<sup>+14</sup>]. **shelled** [MMMD16]. **shellfish** [BFJ11, KKK<sup>+18</sup>, KKM<sup>+19</sup>, RAS<sup>+10</sup>]. **shells** [CBM<sup>+17</sup>, CBM<sup>+18</sup>]. **Shewanella** [CDD<sup>+18</sup>, EMA17, JSJR<sup>+18</sup>, LQL<sup>+10</sup>, MP18, PPSW19, PKPG15]. **shift** [IFF<sup>+15</sup>]. **shiner** [HAP<sup>+10</sup>, LRB<sup>+17</sup>, MGN<sup>+16</sup>]. **SHK**

[LASRA<sup>+19</sup>, SHKF16]. **SHK-1** [LASRA<sup>+19</sup>, SHKF16]. **shoaling** [SSK17]. **shock** [DJQ<sup>+12</sup>, RAS<sup>+10</sup>, SNM<sup>+16</sup>, WBF<sup>+10</sup>, ZWY<sup>+11</sup>]. **shop** [KZJ<sup>+17</sup>]. **short** [LTC17]. **short-term** [LTC17]. **shortnose** [LGK<sup>+14</sup>, JMHK18]. **showed** [KBD13]. **shows** [CXK16, VDO<sup>+18a</sup>]. **shrimp** [APG<sup>+11</sup>, BPK<sup>+17</sup>, CCLGRM<sup>+17</sup>, CNN<sup>+10</sup>, CMEV17a, CMS<sup>+17</sup>, CMEV17b, CLW<sup>+13</sup>, DCMM13, DBM<sup>+14</sup>, ESA<sup>+10</sup>, EEMCEGSP16, HVVV15, JQK14, JJS<sup>+12</sup>, KS19, KKT<sup>+18b</sup>, KKT<sup>+18a</sup>, LRD<sup>+19</sup>, MRR<sup>+14</sup>, MTK<sup>+10</sup>, NPGA<sup>+19</sup>, NSC<sup>+18</sup>, PSK<sup>+13</sup>, PHW<sup>+16</sup>, RPGCIG17, SHS14, SPTDEE<sup>+15</sup>, SRSF10, SSV<sup>+17</sup>, SSV<sup>+10</sup>, STG<sup>+10</sup>, SP15, SVM<sup>+18</sup>, TMM<sup>+15</sup>, TTL<sup>+16</sup>, TDLT<sup>+16</sup>, TDT<sup>+16</sup>, WLX<sup>+10</sup>, YTL10, YLSW14, YHY<sup>+16</sup>]. **shrimps** [BTN<sup>+18</sup>, SHW<sup>+11</sup>]. **shrinking** [LUP<sup>+18</sup>]. **shrivelling** [JYZ<sup>+14</sup>]. **shuberti** [LCZ<sup>+18</sup>]. **sialic** [ACYC10]. **Siamese** [RhAS<sup>+15</sup>]. **Siberian** [DKBS17]. **Sickeningly** [LFD<sup>+17</sup>]. **side** [ELI<sup>+17</sup>]. **siderophore** [BPMI<sup>+16</sup>]. **siderophores** [CRO<sup>+18</sup>]. **sign** [ZDWH18]. **signalling** [BSB<sup>+18</sup>, LMM<sup>+15</sup>, LMM<sup>+16</sup>, XJL<sup>+19</sup>]. **significance** [SMS<sup>+10</sup>]. **significant** [MBS<sup>+17</sup>]. **significantly** [BMD<sup>+14</sup>]. **signs** [HBB14, HCEH16, SON<sup>+18</sup>, XJL<sup>+15</sup>]. **Silurus** [MAOS<sup>+18</sup>]. **silus** [TB12]. **Silva** [KCL14]. **silver** [BSV<sup>+18</sup>, BSSB18, BSD<sup>+18b</sup>, BSD<sup>+18a</sup>, BSD<sup>+18d</sup>, CCMA<sup>+17</sup>, FHD13, KKOY19, KJW<sup>+17</sup>, LJC<sup>+19</sup>, WXL16]. **Simple** [LCR<sup>+10</sup>, MSI<sup>+15</sup>, YWW<sup>+19</sup>]. **simplex** [MGH<sup>+14</sup>]. **simplified** [KKKA17]. **Simulated** [SMR16]. **simulation** [SRD<sup>+16</sup>]. **Simultaneous** [CRAG<sup>+12</sup>, TSK<sup>+19</sup>]. **simultaneously** [KKT<sup>+18a</sup>]. **sinensis** [DML<sup>+16</sup>, DCZ<sup>+17</sup>, DCL<sup>+17</sup>, FGJ<sup>+10</sup>, HGW<sup>+19</sup>, SPP<sup>+18</sup>, SCS<sup>+12</sup>, ZB12]. **Singapore** [CWL<sup>+17</sup>, GHH<sup>+11</sup>]. **Single** [HH13b, BMMC<sup>+15</sup>, CLGP15, CPB<sup>+15</sup>, CZL<sup>+19</sup>, FCL<sup>+19</sup>, GM11, LWJ<sup>+16</sup>, NCNB18, Sam10, VCOD17]. **single-** [GM11]. **Single-dose** [HH13b, Sam10]. **Siniperca** [KHC<sup>+18</sup>, SWD<sup>+14</sup>, TIK<sup>+14a</sup>, TQW<sup>+14</sup>]. **Siphonostomatoida** [KJB11]. **sirindhornae** [SHW<sup>+11</sup>]. **site** [ESV<sup>+19b</sup>, GVLE16, PPK<sup>+13</sup>]. **sites** [Ano10c, HDWM15, HSA17, JTW<sup>+10</sup>]. **situ** [ACSB<sup>+19</sup>, CPEH15, DXX<sup>+15</sup>, DCL<sup>+17</sup>, vGJHS<sup>+11</sup>, MTA<sup>+15</sup>]. **SJNNV** [SOA<sup>+18</sup>]. **Skeletal** [AAV<sup>+16</sup>, ACA<sup>+16</sup>, BHO<sup>+19</sup>, BMT<sup>+15</sup>, GRT12, RHVG<sup>+19b</sup>, WHR<sup>+18</sup>]. **skeleton** [DPD<sup>+18</sup>]. **Skin** [LHW<sup>+15b</sup>, WA14, CSS<sup>+16</sup>, HMW11, JBO<sup>+15</sup>, LJHG14, LHW<sup>+12</sup>, MNF<sup>+15</sup>, OLVJ<sup>+13</sup>, ONA10, PWW19, PPK<sup>+13</sup>, RSF<sup>+17</sup>, SSF<sup>+17</sup>, VCN<sup>+10</sup>, VDD<sup>+18</sup>, VKK<sup>+19</sup>, XKB12, ZxYJ<sup>+19</sup>]. **skin11f** [VKK<sup>+19</sup>]. **skyensis** [RB15]. **sleepy** [ATJS<sup>+18</sup>, WZL<sup>+11</sup>]. **SLICE(R)** [PPI<sup>+13</sup>, SMM<sup>+13</sup>]. **Slovakia** [MKK<sup>+11</sup>]. **Slovene** [JZK<sup>+14</sup>]. **Slovenia** [GRB<sup>+17</sup>]. **small** [WCW16a]. **smallmouth** [SBW<sup>+18</sup>]. **Smit** [HSGD11]. **smoked** [TWNB<sup>+12</sup>]. **smolt** [JOF<sup>+19</sup>, KDA<sup>+18</sup>, LAN<sup>+14</sup>, MPS<sup>+18</sup>, NB10, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, SFR<sup>+17</sup>]. **smolts** [ECP<sup>+10</sup>, FSV<sup>+18</sup>, JCN<sup>+13</sup>, JCN<sup>+14</sup>, KAF<sup>+19</sup>, KRFT14, LGJ19, MLF<sup>+10</sup>, MID<sup>+19a</sup>, PBMB11, SFU<sup>+13</sup>]. **smooth** [HRNW15, MS16, XJL<sup>+15</sup>]. **smooth-hounds** [MS16]. **snakehead** [CHH<sup>+14</sup>, CLZ<sup>+12</sup>, DIH<sup>+16</sup>, LL12]. **snapper**

[CLWJ13, HCW<sup>+16</sup>, ZWY<sup>+11</sup>]. **SNPs** [FCL<sup>+19</sup>]. **snubnose** [WKW13]. **sobria** [CCMA<sup>+17</sup>, FCC<sup>+13</sup>, ZWL<sup>+16</sup>]. **social** [RSF<sup>+17</sup>]. **sockeye** [BLP10, LGJ19, GMC<sup>+16a</sup>, TVK<sup>+19</sup>]. **sodium** [HHO14]. **soft** [CIA<sup>+18</sup>, KOS<sup>+10</sup>, MMMD16, MMD16, PZL<sup>+14</sup>]. **soft-shell** [MMD16]. **soft-shelled** [MMMD16]. **sole** [CVLJ<sup>+10</sup>, CTD<sup>+12</sup>, CPP14, CRS<sup>+13</sup>, CSCCA14, FBL<sup>+14</sup>, LVADB17, LPVGL<sup>+10</sup>, MMS<sup>+16</sup>, VFB<sup>+12</sup>, XJL<sup>+15</sup>, YB17, ZQB<sup>+11</sup>, dALF<sup>+17</sup>]. **Solea** [CVLJ<sup>+10</sup>, CTD<sup>+12</sup>, CPP14, CPdPP16, CRS<sup>+13</sup>, CSCCA14, FBL<sup>+14</sup>, LVADB17, MMS<sup>+16</sup>, SOA<sup>+18</sup>, VFB<sup>+12</sup>, YMBE13, YB17, dALF<sup>+17</sup>]. **soleae** [BVT<sup>+18</sup>, LPVGL<sup>+10</sup>, YMBE13]. **Soleidae** [YMBE13]. **Solen** [PDdC<sup>+14</sup>]. **solid** [YSV<sup>+13</sup>]. **solidus** [WFH<sup>+18</sup>]. **Sommerville** [MRSC13]. **sonophoresis** [LRS<sup>+17</sup>]. **sorbent** [YLX<sup>+19a</sup>, ZLN<sup>+17</sup>]. **Sordariomycetes** [ŘKH16]. **source** [OJRL10]. **sources** [CRO<sup>+18</sup>]. **South** [HGPd11, HOHG13, HWO<sup>+17</sup>, BHT<sup>+17</sup>, GMP<sup>+11</sup>, BHA<sup>+11</sup>, CCW<sup>+15</sup>, Dig13, Dig15, GFB<sup>+13</sup>, LZGZ16, LHW<sup>+15a</sup>, LXL<sup>+18</sup>, MCCN14, Pol15]. **south-east** [GMP<sup>+11</sup>, CCW<sup>+15</sup>, Pol15]. **south-western** [BHT<sup>+17</sup>]. **southeast** [RDN<sup>+12</sup>, SDM<sup>+19</sup>]. **southern** [BLSG<sup>+16</sup>, BMGS17, CNN<sup>+10</sup>, KYB<sup>+15</sup>, MSMM19, SRT<sup>+14</sup>, VDMJ<sup>+13</sup>, WWS<sup>+11</sup>, WZL<sup>+11</sup>, YAHWU11, PRWG17]. **soya** [MTLP<sup>+18b</sup>]. **sp** [BMMC<sup>+15</sup>, CHH<sup>+14</sup>, CPP14, DLPR15, DSLR16, EWH<sup>+19</sup>, FCS<sup>+18</sup>, FLC<sup>+17</sup>, HGH<sup>+16</sup>, HSHC<sup>+16</sup>, LCOZ10, LJHG14, MdOO16, MSCH14, MAOS<sup>+18</sup>, PMBM13, PMP<sup>+18</sup>, PRY<sup>+18</sup>, PLC<sup>+19b</sup>, RRC<sup>+17</sup>, SBM<sup>+11</sup>, SDZN19, SPV<sup>+18</sup>, SBK<sup>+13</sup>, SBW11, TGJCH15, VMBGIC19, VDH19, YMBE13, ZWLG10, dSdAdS<sup>+19</sup>, AOA13, BAH<sup>+18</sup>, VSS17]. **spaC** [PRY<sup>+18</sup>]. **spaC-type** [PRY<sup>+18</sup>]. **spacer** [DPMK12]. **Spain** [BSC<sup>+14</sup>, DIVC16, RAVC18, DMP10, HGB<sup>+11</sup>]. **Spanish** [RGMGG<sup>+18</sup>]. **spartansii** [LF16]. **Sparus** [BC11, CVLJ<sup>+10</sup>, CVGR<sup>+13</sup>, CCME16, DdRTM13, DPCdR14, LGS<sup>+14</sup>, MSS<sup>+17b</sup>, RHVG<sup>+19b</sup>, TPD<sup>+19</sup>]. **spat** [BVL<sup>+18</sup>]. **Spatial** [SBW<sup>+18</sup>, PHR14]. **Spatio** [ASB<sup>+12</sup>]. **Spatio-temporal** [ASB<sup>+12</sup>]. **spawning** [BPPKJ10, BK12]. **SPB** [WKW13]. **SPE0313** [HGW<sup>+19</sup>]. **special** [VGI<sup>+16</sup>]. **species** [ADMF15, ARFG13, BLL<sup>+17</sup>, BWNS<sup>+11</sup>, BOH<sup>+12</sup>, DBV<sup>+13</sup>, DCG18, DMK<sup>+19</sup>, DSJA18, FBS13, FBAS16, GCNB16, GFB<sup>+13</sup>, GOM<sup>+19</sup>, GFS<sup>+14</sup>, HY16, HZX<sup>+13</sup>, IBFL19, JSJR<sup>+19</sup>, KEY<sup>+15</sup>, KBTMH<sup>+16</sup>, KPKP10, KFK<sup>+16</sup>, KDP<sup>+17</sup>, LXL<sup>+18</sup>, ME12, MSB<sup>+19</sup>, MSS<sup>+17a</sup>, MKK<sup>+11</sup>, MPM16, MMW<sup>+15</sup>, NSS<sup>+17</sup>, NMM<sup>+18</sup>, PSVK<sup>+18</sup>, PSCFB<sup>+18</sup>, SAS<sup>+19</sup>, SN14, VMBGE17, VPP<sup>+12</sup>, VDH19, ZZC<sup>+17</sup>]. **species-specific** [IBFL19, VMBGE17]. **specific** [ACYC10, CLC<sup>+17</sup>, CLGP15, CPB<sup>+15</sup>, CSCCA14, IBFL19, KSS<sup>+15</sup>, LCR<sup>+10</sup>, MMBS10, SSV<sup>+10</sup>, SKN<sup>+16</sup>, TMM<sup>+15</sup>, VMBGE17, YGL<sup>+18</sup>, ZFZ<sup>+11</sup>]. **specifically** [MLEM16, YLS<sup>+19</sup>]. **specificity** [AdOG<sup>+17</sup>]. **spectroscopy** [WNCR12]. **speed** [MTHB13]. **sperm** [VMCM14]. **Sphaerospora** [LXL<sup>+18</sup>]. **Sphyraena** [GMP<sup>+11</sup>]. **Sphyrna** [CBC<sup>+13</sup>, MCWL13]. **Spinal** [GCWB11, CLHGK17, MLF<sup>+10</sup>, MPS<sup>+18</sup>]. **spined**

[KFK<sup>+</sup>16, PJZB19, WFH<sup>+</sup>18]. **spines** [FvdMF<sup>+</sup>18]. **spiny** [ZJDL18]. **Spiro**nucleus [MLWC11]. **Spiro**plasma [DXX<sup>+</sup>15, HGW<sup>+</sup>19, LXX<sup>+</sup>17]. **spiro**sulcatus [YYF<sup>+</sup>10]. **spleen** [BSB<sup>+</sup>18, BLdA<sup>+</sup>18, GIW<sup>+</sup>11, Lek12, LMM<sup>+</sup>15, LMM<sup>+</sup>16, RWTB17, SWD<sup>+</sup>14, SSO<sup>+</sup>14, TIK<sup>+</sup>14a]. **splendens** [RhAS<sup>+</sup>15]. **splendidus** [BT14, MBB12]. **Splenic** [AFA<sup>+</sup>12, SKPS16, XJL<sup>+</sup>15]. **Spondy**losis [BCG<sup>+</sup>17]. **Spontaneous** [CGAS19, MLR<sup>+</sup>12, RVB13, SMS<sup>+</sup>19, dSRSHGá<sup>+</sup>19]. **spore** [TES16]. **spot** [CNN<sup>+</sup>10, CLW<sup>+</sup>13, DLCC<sup>+</sup>13, DZV10, DCZ<sup>+</sup>17, DCMM13, DBM<sup>+</sup>14, ESA<sup>+</sup>10, FSO<sup>+</sup>10, HVVV15, HZP<sup>+</sup>12, JQK14, JGI<sup>+</sup>10, JJS<sup>+</sup>12, LQY11, MTK<sup>+</sup>10, NSC<sup>+</sup>18, PSK<sup>+</sup>13, RNM<sup>+</sup>12, RPGCIG17, RDN<sup>+</sup>12, SMS<sup>+</sup>10, STS<sup>+</sup>15, SPTDEE<sup>+</sup>15, SSV<sup>+</sup>10, SP15, SVM<sup>+</sup>18, SRD<sup>+</sup>16, TMM<sup>+</sup>15, TSK<sup>+</sup>19, TTL<sup>+</sup>16, TDT<sup>+</sup>16, XKB12, YHY<sup>+</sup>16]. **spotted** [FHZ<sup>+</sup>16, KKK<sup>+</sup>18, NNC<sup>+</sup>18, SDJH16, WCL<sup>+</sup>12, XJL<sup>+</sup>19]. **spp** [BTN<sup>+</sup>18, BHF13, BGC<sup>+</sup>17, BBP18, CD17, CdAPdC<sup>+</sup>19, GJMH17, HVVV15, ICVV16, JSJR<sup>+</sup>18, KBTMH<sup>+</sup>16, KFK<sup>+</sup>16, KKKA17, MS16, NB11, PPSW19, PPE<sup>+</sup>18, TES11, TES16, XLZ<sup>+</sup>17]. **Sprague**ia [FYO<sup>+</sup>11]. **Spragui**dae [FYO<sup>+</sup>11]. **spread** [RHS<sup>+</sup>12, SJ11]. **spreading** [KAST17, TWJP10]. **spring** [EBM<sup>+</sup>18, GSBEM15, LDEH17, LFL19, MPBM<sup>+</sup>16, MGN<sup>+</sup>16, OCLI<sup>+</sup>19, SKN<sup>+</sup>16, XWP<sup>+</sup>18]. **Sproston** [GAC10, MWS17]. **Squamous** [SHAM14]. **S(R)** [CAS<sup>+</sup>18]. **sRNA** [MFHHG18]. **sRNAs** [PKLH19]. **ssDNA** [YLS<sup>+</sup>19]. **ssp** [BBP18, HCL<sup>+</sup>14]. **SSU** [OBR<sup>+</sup>14]. **SSVR1601** [ZxYJ<sup>+</sup>19]. **stability** [SG12, WGL17]. **staff** [EWRH13]. **stage** [FSB18a, MLER<sup>+</sup>18, WOD16, YK13]. **stages** [AJLK<sup>+</sup>18, EDN18, HGG<sup>+</sup>11, JHGR13, LF18, MTA<sup>+</sup>15, WFH<sup>+</sup>18, dALF<sup>+</sup>17]. **standard** [CDG<sup>+</sup>14, GCW17, LWWS14, SEK<sup>+</sup>16]. **standardized** [OLVJ<sup>+</sup>13]. **standards** [LTG<sup>+</sup>18]. **Staphylococcus** [LHW<sup>+</sup>12, OAO<sup>+</sup>12]. **starry** [LZGZ16]. **starvation** [CMEV17a, CZB<sup>+</sup>11]. **stasis** [GM11]. **state** [FLCC<sup>+</sup>14, GFS<sup>+</sup>18, JJM<sup>+</sup>17]. **states** [SPKS17, SSO<sup>+</sup>14, CDM<sup>+</sup>13, GCS<sup>+</sup>18, PTM<sup>+</sup>19]. **Statistical** [Gis18]. **status** [BSD<sup>+</sup>18a, BCBS<sup>+</sup>13, DSJA18, GJMH17, JOF<sup>+</sup>19, KSS17, PFJ<sup>+</sup>10, SMS<sup>+</sup>10]. **Steatitis** [HGPD11]. **steelhead** [GTH11]. **Steindachner** [CSA<sup>+</sup>15, KCD<sup>+</sup>14, SWD<sup>+</sup>14, SL15]. **stellata** [LZGZ16]. **stellatus** [dSdAdS<sup>+</sup>19]. **step** [HRL15]. **stickleback** [ASW16, KFK<sup>+</sup>16, WFH<sup>+</sup>18, PJZB19]. **stimulates** [LFD<sup>+</sup>17]. **stimulation** [TQW<sup>+</sup>14]. **stinger** [MLMR16]. **stinging** [AA10]. **stingray** [CBFM16, CDM<sup>+</sup>16, SDZN19, SCZM19, MdOO16]. **stock** [BGRB14]. **stocked** [GDN<sup>+</sup>16, MP18]. **stocking** [KAST17]. **stocks** [AHJS<sup>+</sup>18, OEG<sup>+</sup>13]. **storage** [HPAL10]. **stored** [SG12]. **strain** [BVT<sup>+</sup>18, CMSHS16, DKBS17, GCCLRP<sup>+</sup>13, GGGM14, ITKH18, KF10b, KTN<sup>+</sup>16, LZZN10, OEG<sup>+</sup>13, RVC18, SVM<sup>+</sup>18, SOGR<sup>+</sup>19, TB12, VDD<sup>+</sup>18, WKW<sup>+</sup>11, YMH<sup>+</sup>11, ZxYJ<sup>+</sup>19]. **strains** [BLF<sup>+</sup>16, CIL<sup>+</sup>17, CLLF14, CRS<sup>+</sup>13, dJDAVRGM<sup>+</sup>18, FDL<sup>+</sup>17, FCL<sup>+</sup>19, GCMG<sup>+</sup>11, GRF14, GRP<sup>+</sup>15, LCV<sup>+</sup>17, MBS<sup>+</sup>19a, MNG<sup>+</sup>18, OFA11, PKPG15, PFP<sup>+</sup>13, SWM<sup>+</sup>15, SOA<sup>+</sup>18, TFG19, VTM<sup>+</sup>14, VC17, WZA10, XKBC12, ZZC<sup>+</sup>17]. **strategies**

[SWWN<sup>+</sup>16, ZCQF15]. **strategy**  
 [FLC<sup>+</sup>17, GCNB18, JMD<sup>+</sup>18, LTC17, RRO<sup>+</sup>13]. **strawberry**  
 [LLS<sup>+</sup>11, MTG<sup>+</sup>10]. **Streptocephalus** [SHW<sup>+</sup>11]. **streptococcosis**  
 [FLCC<sup>+</sup>14, LLH<sup>+</sup>14a, ZTF<sup>+</sup>10]. **Streptococcus**  
 [AAZS<sup>+</sup>15, AZSI<sup>+</sup>12, AZSSZZ13, ATP<sup>+</sup>17, BSD<sup>+</sup>18b, BMMC<sup>+</sup>15, BYAS<sup>+</sup>19, BFFA<sup>+</sup>12, BDB<sup>+</sup>18, CWL<sup>+</sup>17, CGCAH12, CLLF14, CZL<sup>+</sup>19, DDBC<sup>+</sup>15, DZC<sup>+</sup>16, EPA<sup>+</sup>10, GCMG<sup>+</sup>11, HKK<sup>+</sup>11b, HJOK11, HZX<sup>+</sup>13, ICVV16, KNN19, LFSZ18, LLH<sup>+</sup>14a, LLH<sup>+</sup>14b, LLX<sup>+</sup>19, LLL<sup>+</sup>18a, MP18, MoSMS18, NLF11, NLKA16, NMIY14, NYRS12, OGI<sup>+</sup>18, SLKE10, SFL<sup>+</sup>16, SPS<sup>+</sup>19, TWYC15, VMBGIC19, VJWC<sup>+</sup>18, WZL13, XXL<sup>+</sup>19, ZKL<sup>+</sup>19, ZFZ<sup>+</sup>11].  
**Stress** [GAVC16, CZB<sup>+</sup>11, DSSB19, MLER<sup>+</sup>18, PBC15, PKLH19, TMC<sup>+</sup>12].  
**stressed** [CDG<sup>+</sup>14]. **stresses** [HGX<sup>+</sup>19]. **stricta** [BAH<sup>+</sup>16]. **strigosus**  
 [WA14]. **strings** [AHH16]. **striped**  
 [ABC<sup>+</sup>10, BVG<sup>+</sup>10, CB13, SBM<sup>+</sup>11, SMV<sup>+</sup>14, VST<sup>+</sup>19]. **Strong** [HLP<sup>+</sup>16].  
**structural** [LC17, SSV<sup>+</sup>10]. **structure**  
 [DPC<sup>+</sup>10, ISCF<sup>+</sup>19, LWZ<sup>+</sup>18, MFS<sup>+</sup>17, TPD<sup>+</sup>19, VMCM14]. **structures**  
 [DLP<sup>+</sup>13, RHVG<sup>+</sup>19b, RVC18, SMR16]. **structuring** [DJR<sup>+</sup>19]. **studied**  
 [GAC10]. **Studies** [DSA<sup>+</sup>12, DAB<sup>+</sup>12, ELI<sup>+</sup>17, H MV<sup>+</sup>17, LQY11, UKS<sup>+</sup>18, CKJ<sup>+</sup>14, CLHGK17, CTK<sup>+</sup>10, GFW<sup>+</sup>10, GRF14, KF10a, LTG<sup>+</sup>18, LRMN17, MMS<sup>+</sup>16, MMD16, MKMY10, RBAT<sup>+</sup>17, SRD<sup>+</sup>16, WKW<sup>+</sup>11].  
**Study** [DLLB<sup>+</sup>18, JMS13, LBF<sup>+</sup>14, AHJS<sup>+</sup>18, AOAH13, AAUHW15, ABT<sup>+</sup>14, BSPS<sup>+</sup>18, BCM<sup>+</sup>17, BMGS17, CXK16, CKvGJB17, CGCAH12, DPTFC10, DPTCF10, DIVC16, DZV10, FLVA10, GFM<sup>+</sup>11, JWO<sup>+</sup>10, JR19, JHRW17, KPT<sup>+</sup>11, LVADB17, MVM<sup>+</sup>18, MCSM17, MID<sup>+</sup>19a, NB10, QXW14, RHZA<sup>+</sup>16, RHST<sup>+</sup>16, RHSM<sup>+</sup>18b, RHSM<sup>+</sup>18a, Sam10, SWM<sup>+</sup>15, SVL<sup>+</sup>17, SVV<sup>+</sup>17, VTM<sup>+</sup>14, VBL<sup>+</sup>15]. **sturgeon**  
 [BLL<sup>+</sup>17, DKBS17, LGK<sup>+</sup>14, MMD<sup>+</sup>12, RHSM<sup>+</sup>18b, RFA<sup>+</sup>14, SAD<sup>+</sup>12].  
**subclinical** [BSSH17, LMG<sup>+</sup>19]. **subclinically** [Bin14]. **subinhibitory**  
 [GTGCM19]. **sublethal** [WNO<sup>+</sup>18]. **subpopulations** [TDLT<sup>+</sup>16, TDT<sup>+</sup>16].  
**subsequent** [IPW<sup>+</sup>13]. **subsp** [ATP<sup>+</sup>17, SPKS17, YFA<sup>+</sup>17]. **subsp.**  
 [CDM<sup>+</sup>13, CDF<sup>+</sup>18, CRS<sup>+</sup>13, DABO<sup>+</sup>17, KPSP<sup>+</sup>19, KBTMH<sup>+</sup>16, MLEM16, NLC<sup>+</sup>16, OJRL10, PLC<sup>+</sup>19b, SWM<sup>+</sup>15, SPS<sup>+</sup>17, SKGE13]. **subspecies**  
 [GLK<sup>+</sup>16, VC17]. **substances** [YFA<sup>+</sup>17]. **subtractive** [LZZN10]. **subtype**  
 [GL18, GRF14, HST<sup>+</sup>13, JJB15, RSP<sup>+</sup>17, RSM<sup>+</sup>18, TJB<sup>+</sup>15]. **subtypes**  
 [GFM<sup>+</sup>11, GFR<sup>+</sup>12, GLK<sup>+</sup>16]. **subunit** [ÇOÇ<sup>+</sup>16, LSA<sup>+</sup>15, LXHL11].  
**success** [ACN12]. **succinicans** [GDW<sup>+</sup>15]. **sucker** [MGN<sup>+</sup>16, JMHK18].  
**suckers** [BWB<sup>+</sup>17]. **Sueur** [WKW<sup>+</sup>11]. **SufB** [PLCC11]. **suffering**  
 [ATJS<sup>+</sup>18, GRT12, GFS<sup>+</sup>14, TvWO<sup>+</sup>16]. **suggest** [GB18, TALA11].  
**suggests** [WXL16]. **suicidal** [CLGP15]. **suitability** [NJK<sup>+</sup>17]. **suitable**  
 [JKS<sup>+</sup>13, KHG<sup>+</sup>17, VLVS<sup>+</sup>16]. **sulfate** [ZCJ<sup>+</sup>18]. **sulfate-resistant**  
 [ZCJ<sup>+</sup>18]. **sulfurea** [ŘKH16]. **sulphate** [DBS12]. **sultana** [KAESEM13].  
**summary** [JJM<sup>+</sup>17]. **sunfish** [ALG15, LDEH17]. **sunshine** [DBS12].  
**Superior** [HAP<sup>+</sup>10]. **supernatants** [GM10]. **supplementation**  
 [JKL<sup>+</sup>13, KSM<sup>+</sup>17, LKS<sup>+</sup>13]. **supplements** [AMA11, NFA15]. **support**

[BMBS12]. **supports** [GCS<sup>+</sup>18]. **suppression** [LZZN10]. **suratensis** [MRN<sup>+</sup>19]. **surf** [RPJ<sup>+</sup>18]. **Surface** [GCMG<sup>+</sup>11, CD17, NMIY14, OBD10]. **surfaces** [HRNW15, PDLW17]. **surfactant** [AJLK<sup>+</sup>18]. **surgeonfish** [WA14]. **Surgical** [LL11, GM11]. **surveillance** [BTN<sup>+</sup>18, BMBS12, GWM12, GCS<sup>+</sup>18, HAS<sup>+</sup>19, KOS<sup>+</sup>10, LTM<sup>+</sup>19, LMAKN16, MMBS10]. **surveilling** [HRL15]. **Survey** [MMG<sup>+</sup>11, BHT<sup>+</sup>17, GGMG18b, HSA17, JZK<sup>+</sup>14, KZJ<sup>+</sup>17, LUP<sup>+</sup>18, MSBB<sup>+</sup>16, MJ17, WDM<sup>+</sup>15]. **survival** [DMB<sup>+</sup>19, FFP<sup>+</sup>14, LTC17, LGS<sup>+</sup>14, MMS<sup>+</sup>16, SPCR<sup>+</sup>19, SFU<sup>+</sup>13, WYZ<sup>+</sup>19]. **survived** [WIC<sup>+</sup>19, WCL<sup>+</sup>12]. **Susceptibility** [BSK<sup>+</sup>10, BDD<sup>+</sup>18, GOM<sup>+</sup>19, IOO15, NSS<sup>+</sup>17, RWTB17, XKBC12, CLL<sup>+</sup>10, CBM<sup>+</sup>17, DBV<sup>+</sup>13, DCMM13, GCW17, GMC<sup>+</sup>16b, GRP<sup>+</sup>15, GHW<sup>+</sup>15, HKB<sup>+</sup>16, JKH<sup>+</sup>17, KKOY19, KBE<sup>+</sup>14, ME12, MSS<sup>+</sup>17a, NSB<sup>+</sup>18, OEG<sup>+</sup>13, PWHW18b, PFJ<sup>+</sup>10, RHTC19b, WWS<sup>+</sup>11, WKW<sup>+</sup>11, WKW13, Wen16, XWP<sup>+</sup>18, XKB12, YNL11, YCNW18]. **susceptible** [GHH<sup>+</sup>11, IFF<sup>+</sup>15, KWD<sup>+</sup>16, RSP<sup>+</sup>17, TDS<sup>+</sup>19, UMMS17]. **Suspected** [KVC<sup>+</sup>16, MSS<sup>+</sup>12, LXL<sup>+</sup>18]. **Susquehanna** [SBW<sup>+</sup>18]. **swabs** [ZCCN13]. **swamp** [AMAR18]. **swamps** [HHC<sup>+</sup>18]. **Sweet** [LFD<sup>+</sup>17]. **sweetfish** [KSS<sup>+</sup>15]. **Swim** [RKH18, BMD<sup>+</sup>14, BCG<sup>+</sup>17]. **swimbladder** [FDST16]. **swimming** [DSSB19, GMC<sup>+</sup>16b, HKF<sup>+</sup>16]. **switch** [CKJ<sup>+</sup>14]. **SYBR** [TCFáS19]. **Symphodus** [SRM<sup>+</sup>18]. **Symphysodon** [AFTEML19, RKK<sup>+</sup>19]. **Syncytial** [FKB<sup>+</sup>14, KAS<sup>+</sup>18]. **syndrome** [APG<sup>+</sup>11, BPK<sup>+</sup>17, CSS<sup>+</sup>16, CNN<sup>+</sup>10, CLW<sup>+</sup>13, DLCC<sup>+</sup>13, DZV10, DCZ<sup>+</sup>17, DCMM13, DBM<sup>+</sup>14, ESA<sup>+</sup>10, FSO<sup>+</sup>10, FPK<sup>+</sup>17, GFS<sup>+</sup>18, GKCC<sup>+</sup>12, HVVV15, HZP<sup>+</sup>12, HHC<sup>+</sup>18, JQK14, JYZ<sup>+</sup>14, JGI<sup>+</sup>10, JJS<sup>+</sup>12, KEY<sup>+</sup>15, KOS<sup>+</sup>10, LQY11, LWMT10, MTK<sup>+</sup>10, MTG<sup>+</sup>10, NSC<sup>+</sup>18, OOO<sup>+</sup>11, OAO<sup>+</sup>12, PZL<sup>+</sup>14, PSK<sup>+</sup>13, RNM<sup>+</sup>12, RPGCIG17, RDN<sup>+</sup>12, RMR14, SPTDEE<sup>+</sup>15, SSV<sup>+</sup>10, SP15, SVM<sup>+</sup>18, SRD<sup>+</sup>16, SNK<sup>+</sup>19, TMM<sup>+</sup>15, TSK<sup>+</sup>19, TTL<sup>+</sup>16, TDT<sup>+</sup>16, WNLF<sup>+</sup>12, YHY<sup>+</sup>16, ZWL<sup>+</sup>16, GRB<sup>+</sup>17, GMB<sup>+</sup>17, GMC<sup>+</sup>16a]. **syndrome-associated** [JYZ<sup>+</sup>14]. **syndrome/acute** [BPK<sup>+</sup>17]. **synergism** [ZN10]. **Synergistic** [LGJ19]. **Syngnathidae** [FFLC17]. **synthase** [PLCC11]. **synthesis** [SRB12]. **system** [AGFG19, ACM<sup>+</sup>14, CBC<sup>+</sup>13, DPTFC10, DLLB<sup>+</sup>18, EAN<sup>+</sup>18, FYO<sup>+</sup>11, JJS<sup>+</sup>12, JSAB<sup>+</sup>19, áKÁGA16, KDP<sup>+</sup>17, LP17, MSG<sup>+</sup>18, PHW<sup>+</sup>16, XXL<sup>+</sup>19]. **systematic** [GCS<sup>+</sup>18, YGL<sup>+</sup>18]. **Systemic** [CGAS19, CDD<sup>+</sup>18, EKS<sup>+</sup>13, NOV<sup>+</sup>11, RSR<sup>+</sup>18, RPM<sup>+</sup>19, CPP14, DLP<sup>+</sup>13, LCOZ10, PRY<sup>+</sup>18, TCC10a]. **systems** [BSD<sup>+</sup>18b, BTN<sup>+</sup>18, BGD<sup>+</sup>17, GDW<sup>+</sup>15, LRS<sup>+</sup>17, RSB13].

**T** [BA14, NYRS12, TQW<sup>+</sup>14]. **T-cell** [NYRS12, TQW<sup>+</sup>14]. **T.** [LUP<sup>+</sup>18]. **taeniolatus** [LYD<sup>+</sup>15]. **Taeniura** [CDM<sup>+</sup>16]. **tail** [DCV<sup>+</sup>14, MSC<sup>+</sup>17, YNL11, ZJDL18]. **tailed** [DD15]. **Taiwan** [CCT<sup>+</sup>11, CLW<sup>+</sup>13, PLC<sup>+</sup>19b]. **Takahashi** [ZCC18]. **Takifugu** [KOI<sup>+</sup>14, MKMY10]. **tambaqui** [PdSG<sup>+</sup>12]. **tandem** [ACAS14, HZP<sup>+</sup>12, JGI<sup>+</sup>10]. **tank** [GAVC16, PSS17]. **tank-reared** [PSS17]. **tannic** [AMRHM18]. **tapetis** [VDD<sup>+</sup>18]. **TaqMan**



[FSO<sup>+</sup>10, LGC<sup>+</sup>19, BMBS12, FGR<sup>+</sup>12, JKS<sup>+</sup>13, ZHFC11]. **Taqman-based** [JKS<sup>+</sup>13]. **tarda** [CTD<sup>+</sup>12, COB<sup>+</sup>16, KTK17, KREM14, LKS<sup>+</sup>13, LML<sup>+</sup>13, QXW14, RSR<sup>+</sup>18, SMV<sup>+</sup>14, WZA10, ZXW<sup>+</sup>12]. **target** [MSS<sup>+</sup>17a]. **targeted** [GWM12, MPJ<sup>+</sup>15]. **targeting** [CXW<sup>+</sup>19, HLP<sup>+</sup>16, vGJKR<sup>+</sup>17]. **tarpon** [BCW<sup>+</sup>15]. **Tasmania** [ABC<sup>+</sup>10]. **Tasmanian** [SN14, ZCCN13, ZCC<sup>+</sup>15]. **Tasoh** [ARR<sup>+</sup>18]. **Taura** [APG<sup>+</sup>11]. **taurus** [LL11]. **Technical** [BHA<sup>+</sup>17]. **technique** [FNISE12, MTHB13, PSVK<sup>+</sup>18, TMWV14]. **techniques** [CPdPP16, MFES18, TCS19]. **Telangiectatic** [RHSM<sup>+</sup>18a]. **teleost** [MYWC18, SdMVS<sup>+</sup>16, ZGY<sup>+</sup>18]. **Teleostei** [Lek12, RRC<sup>+</sup>17]. **teleosts** [BDM<sup>+</sup>18, SCD19]. **Temminck** [CONN10, FNISE12, GHH<sup>+</sup>11, HKK<sup>+</sup>11b, JKC<sup>+</sup>11, JJV<sup>+</sup>15, KSS<sup>+</sup>15, KYK<sup>+</sup>12, KLW10, LKS<sup>+</sup>13, MKK<sup>+</sup>11, MKMY10, NSS<sup>+</sup>17, OMO<sup>+</sup>15, SSJ<sup>+</sup>19, YYF<sup>+</sup>10, ZCC18]. **Temperature** [VCLW16, AAV<sup>+</sup>16, ASSP<sup>+</sup>15, BSPS<sup>+</sup>18, BPCS19, Bin14, CRBLC<sup>+</sup>17, DSA<sup>+</sup>12, EDV<sup>+</sup>18, FFP<sup>+</sup>14, GHB<sup>+</sup>11, HMW11, HZJ<sup>+</sup>19, IFF<sup>+</sup>15, JBO<sup>+</sup>15, JJV<sup>+</sup>15, KCL14, MPS<sup>+</sup>18, PMPG<sup>+</sup>16, SFR<sup>+</sup>17, SK15, SJK<sup>+</sup>14, VBL<sup>+</sup>15]. **temperature-dependent** [ASSP<sup>+</sup>15, HZJ<sup>+</sup>19]. **temperature-influenced** [BSPS<sup>+</sup>18]. **temperature-related** [JBO<sup>+</sup>15]. **temperatures** [FHFF15, GMN12, JPG<sup>+</sup>19, RHTC19b, SVL<sup>+</sup>17, VBL<sup>+</sup>16]. **Temporal** [PHR14, ASB<sup>+</sup>12, DIVC16, SBW<sup>+</sup>18, SVV<sup>+</sup>17]. **Temporary** [AHPR<sup>+</sup>16]. **ten** [VTM<sup>+</sup>14]. **Tenacibaculosis** [MMS<sup>+</sup>16, FBL<sup>+</sup>14]. **Tenacibaculum** [AHITC18, BMH<sup>+</sup>19, BVT<sup>+</sup>18, CSCCA14, FSG<sup>+</sup>12, FSV<sup>+</sup>18, FSB<sup>+</sup>18c, IGLG<sup>+</sup>17, KAF<sup>+</sup>19, LITCAH19b, LPVGL<sup>+</sup>10, MMS<sup>+</sup>16, VFB<sup>+</sup>12]. **tench** [DLP<sup>+</sup>13]. **tentative** [VDH19]. **tequila** [RAM<sup>+</sup>17]. **teratoma** [RAM<sup>+</sup>17]. **term** [DIVC16, KHG<sup>+</sup>17, LTC17, MSBB<sup>+</sup>16]. **ternetzi** [SHAM14]. **terraenovae** [BA13]. **territorial** [BCL<sup>+</sup>19]. **test** [BTC<sup>+</sup>17, CLC<sup>+</sup>17, DLLB<sup>+</sup>18, HWM<sup>+</sup>13, JWO<sup>+</sup>10, SEK<sup>+</sup>16, ZWL<sup>+</sup>14]. **Testate** [DT16]. **Testicular** [Reh13]. **testing** [BVK<sup>+</sup>16, EAM<sup>+</sup>13, GCW17, HH13b, LTM<sup>+</sup>19, PPE<sup>+</sup>18, WGL17]. **tests** [LTG<sup>+</sup>18, OTN<sup>+</sup>12, TAC15]. **testudineus** [LJHG14]. **tetra** [BE19, LLG<sup>+</sup>15, Lek12, ŘKH17, ŘKH18, SHAM14, SMS<sup>+</sup>19]. **Tetracapsuloides** [BSPS<sup>+</sup>18, BPPKJ10, JZK<sup>+</sup>14, KAEMSEM13, MJ17, Mor12]. **Tetradecylthioacetic** [GRT12]. **Tetrahymena** [LCOZ10, SPLV<sup>+</sup>15, XZZ16]. **Tetramicra** [SFBW<sup>+</sup>17]. **tetraspanins** [WLX<sup>+</sup>10]. **TH0426** [YZW<sup>+</sup>19]. **Th1** [KBD13, CKJ<sup>+</sup>14]. **Th1-** [CKJ<sup>+</sup>14]. **Th1-/** [CKJ<sup>+</sup>14]. **Th1/Th2/Treg** [KBD13]. **Th2** [KBD13, CKJ<sup>+</sup>14]. **Th2-like** [CKJ<sup>+</sup>14]. **Thailand** [BPK<sup>+</sup>17, DLPR15, KTP<sup>+</sup>15, KYB<sup>+</sup>15, SHW<sup>+</sup>11, SHS14, STG<sup>+</sup>10, SRT<sup>+</sup>14]. **thailandensis** [SHW<sup>+</sup>11]. **their** [AHH16, BCLM<sup>+</sup>19, CPdPP16, DSSB18, DPC<sup>+</sup>10, HGH<sup>+</sup>18, HB12, JGI<sup>+</sup>10, JSJR<sup>+</sup>19, KBE<sup>+</sup>14, NFA15, PPF<sup>+</sup>12, RAS<sup>+</sup>10, SWM<sup>+</sup>15, TSK<sup>+</sup>19, TQW<sup>+</sup>14, WNMK<sup>+</sup>16]. **Thelohanellus** [LJHG14]. **them** [JMD<sup>+</sup>18]. **theory** [TALA11]. **Theragra** [WMF14]. **therapeutic** [BE19, MSCH14]. **therapy** [FLCC<sup>+</sup>14]. **thermoadapted**

[RPM<sup>+</sup>19]. **thermophila** [XZZ16]. **these** [BSD<sup>+</sup>18a]. **thickening** [DRdS<sup>+</sup>10]. **thicker** [SWS<sup>+</sup>16]. **thicklip** [HSGD11]. **Thoracocharax** [dSdAdS<sup>+</sup>19]. **Three** [KTK17, WLX<sup>+</sup>10, ABVS18, KKT<sup>+</sup>18b, KFK<sup>+</sup>16, MTHB13, OEG<sup>+</sup>13, SGB<sup>+</sup>16, SPKS17, SN14, WFH<sup>+</sup>18, XKBC12, ZWG<sup>+</sup>17, PJZB19]. **Three-dimensional** [KTK17]. **three-spined** [KFK<sup>+</sup>16, WFH<sup>+</sup>18, PJZB19]. **threespine** [ASW16]. **thromboticans** [WEPB<sup>+</sup>18]. **throughout** [TWJP10]. **throughput** [BHT<sup>+</sup>17, LITCAH19b, TCFáS19]. **Thunberg** [GVLE16, GCCLRP<sup>+</sup>13, HPY<sup>+</sup>13, OTN<sup>+</sup>12, OKS<sup>+</sup>13]. **Thunnus** [CZB<sup>+</sup>11, PSZ<sup>+</sup>14]. **thymic** [KVC<sup>+</sup>16]. **thynnus** [CZB<sup>+</sup>11, PSZ<sup>+</sup>14]. **thyrsites** [MSBB<sup>+</sup>16]. **tiburo** [CBC<sup>+</sup>13, MCWL13]. **tidal** [PHR14]. **tidepool** [SPTDEE<sup>+</sup>15]. **tigecycline** [CDW17]. **tiger** [DCMM13, DBM<sup>+</sup>14, KOI<sup>+</sup>14, LL11, MKMY10, NDA<sup>+</sup>19, PSK<sup>+</sup>13, SRSF10]. **tilapia** [ARR<sup>+</sup>18, AZSSZZ13, ACLP<sup>+</sup>19, ATP<sup>+</sup>17, AdOG<sup>+</sup>17, BMMC<sup>+</sup>15, CMS<sup>+</sup>19, CCHL13, CLLF14, CZL<sup>+</sup>19, DLPR15, DSLR16, DTJ<sup>+</sup>17, FLCC<sup>+</sup>14, FKB<sup>+</sup>14, HZX<sup>+</sup>13, ICVV16, JST<sup>+</sup>19, KAS<sup>+</sup>18, KTP<sup>+</sup>15, KBTMH<sup>+</sup>16, LLH<sup>+</sup>14a, LCZ<sup>+</sup>18, LLX<sup>+</sup>19, LLL<sup>+</sup>18a, MCW<sup>+</sup>18, MNM<sup>+</sup>18, NMV<sup>+</sup>19, NLF11, NYRS12, OGI<sup>+</sup>18, PNBK13, PCK<sup>+</sup>15, PYSS19, PLC<sup>+</sup>19b, RHTC19b, RPMRLJ<sup>+</sup>19, SPKS17, SLKE10, SL15, SKGE13, SFL<sup>+</sup>16, SPS<sup>+</sup>19, TSS18, TRS19, TvWO<sup>+</sup>16, VMBGIC19, VJWC<sup>+</sup>18, WWZ<sup>+</sup>18, WSA<sup>+</sup>18, XXL<sup>+</sup>19, YSHG18, YTKS19, YLL<sup>+</sup>18, YWW<sup>+</sup>19, ZKL<sup>+</sup>19, ZTF<sup>+</sup>10, vD14, NFF<sup>+</sup>17]. **Tilesius** [GM11]. **TiLV** [ARR<sup>+</sup>18, MCW<sup>+</sup>18]. **Timah** [ARR<sup>+</sup>18]. **Time** [JMF<sup>+</sup>18, ATM<sup>+</sup>10, AGB<sup>+</sup>19, AdOG<sup>+</sup>17, BKS<sup>+</sup>17, BKD17, BMBS12, CDF<sup>+</sup>18, CDG<sup>+</sup>14, DCL<sup>+</sup>17, FSO<sup>+</sup>10, FGR<sup>+</sup>12, FSG<sup>+</sup>12, GBV<sup>+</sup>16, GJK<sup>+</sup>11, GTH11, GBSF12, HRL15, HGB<sup>+</sup>11, JKS<sup>+</sup>13, JNN<sup>+</sup>11, KJW<sup>+</sup>12, KBJ<sup>+</sup>13, LGC<sup>+</sup>19, MMBS10, MSI<sup>+</sup>15, MLWC11, NLKA16, SK15, TCFáS19, YTL10, ZHFC11, vBVL<sup>+</sup>16]. **time-monitoring** [AGB<sup>+</sup>19]. **timing** [GVB<sup>+</sup>17a]. **Tinca** [DLP<sup>+</sup>13]. **tips** [DCV<sup>+</sup>14]. **Tissue** [AOAH13, MRR<sup>+</sup>14, BKS<sup>+</sup>17, BTC<sup>+</sup>17, CIA<sup>+</sup>18, DdRTM13, HSHC<sup>+</sup>16, LAN<sup>+</sup>14, LRD<sup>+</sup>19, LJC<sup>+</sup>19, MB17, OKS<sup>+</sup>13, PAM<sup>+</sup>19, SSV<sup>+</sup>17, SG12, SFL<sup>+</sup>16, ZYW<sup>+</sup>10]. **tissues** [CDF<sup>+</sup>18, FBL<sup>+</sup>14, FGR<sup>+</sup>12, GMB<sup>+</sup>17, GM10, GGW<sup>+</sup>11, OBD<sup>+</sup>11, RNM<sup>+</sup>12, SSHEM11]. **titration** [CCCTA<sup>+</sup>14]. **titre** [OKS<sup>+</sup>13]. **TLR1** [SHKF16]. **TLR2** [ZZQ<sup>+</sup>19]. **TLR22** [SHKF16]. **TLR5** [QZZ<sup>+</sup>18b]. **TLR5M** [SHKF16]. **TLR5S** [SHKF16]. **Todd** [JCN<sup>+</sup>14]. **TOF** [PSVK<sup>+</sup>18, PSCFB<sup>+</sup>18]. **tolerance** [CDW17, JHGR13, SW11, WWE<sup>+</sup>13]. **toll** [PRSK10, SHKF16]. **toll-like** [PRSK10, SHKF16]. **tomentosa** [KWGS19, MWRSK17, MKK<sup>+</sup>11]. **tomographic** [LTC<sup>+</sup>14]. **tongue** [XJL<sup>+</sup>15, ZQB<sup>+</sup>11]. **tool** [HH13b, Sla14]. **tooth** [OAO<sup>+</sup>12]. **top** [EAM<sup>+</sup>13]. **topmouth** [MKK<sup>+</sup>11]. **Tor** [SM14]. **Tosh** [EW17]. **Toshio** [EW17]. **Toxicity** [PNBK13, MGF17, PCK<sup>+</sup>15, SRB12, ZPM<sup>+</sup>18]. **toxicology** [GHW<sup>+</sup>15]. **toxicosis** [DGS<sup>+</sup>14, MSS<sup>+</sup>12]. **toxin** [CCLGRM<sup>+</sup>17, NPGA<sup>+</sup>19]. **toxoid** [SWM<sup>+</sup>15]. **Toxoplasma** [SZM<sup>+</sup>15]. **Trachinotus** [AZSI<sup>+</sup>12, CWL<sup>+</sup>17, LYL<sup>+</sup>18, WKW13]. **Trachurus** [ONGQ<sup>+</sup>14]. **tracing**

[KDA<sup>+18</sup>]. **tracking** [EKT<sup>+11</sup>]. **tract** [ABF15, BT14, BLFC12, MBB12].  
**Trade** [RMS<sup>+13</sup>, CDM<sup>+13</sup>]. **traded** [AHJS<sup>+18</sup>]. **trafficked** [ARFG13].  
**traits** [KNN19]. **transcribed** [DPMK12]. **transcription**  
[FVAVMGE18, GRT12, TSS18, YWW<sup>+19</sup>]. **transcriptional**  
[LHW<sup>+15b</sup>, TQW<sup>+14</sup>]. **transcriptome**  
[FFLC17, PKLH19, VMBGE17, XJL<sup>+19</sup>, ZJR<sup>+18</sup>]. **Transcriptomic**  
[CRBLC<sup>+17</sup>]. **transcriptomics** [JBO<sup>+15</sup>]. **transfection**  
[CLL<sup>+10</sup>, WKW13]. **transfer** [BLFRCQ10, JMF<sup>+18</sup>, RHS<sup>+12</sup>]. **transform**  
[WNCR12]. **translationally** [NRMS14]. **transmissible** [GMC<sup>+16a</sup>].  
**Transmission**  
[AZSSZZ13, BWS<sup>+18</sup>, CVGR<sup>+13</sup>, CBW19, FBAS16, HVVV15, HKG<sup>+15</sup>,  
SVY<sup>+14</sup>, AHJS<sup>+18</sup>, BMK17, FBS13, FYO<sup>+11</sup>, HGG<sup>+11</sup>, JNS<sup>+19</sup>, KS19,  
KSA<sup>+10</sup>, MMD16, NLC<sup>+16</sup>, PMPG<sup>+16</sup>, RMS<sup>+13</sup>, SHJ<sup>+12</sup>, STIG17,  
SHV<sup>+16</sup>, SMKBP17, TRS19, WMM<sup>+16</sup>, WKK12, YTKS19, YLL<sup>+18</sup>].  
**transmit** [WNGS<sup>+17</sup>]. **transmitting** [CJB<sup>+15</sup>]. **transport**  
[SMR16, SVY<sup>+14</sup>]. **transporter** [OJRL10, WZL13]. **transversum**  
[FFP<sup>+14</sup>]. **treat** [ACN12, AMRHM18, LML12]. **treating** [KWGS19].  
**Treatment** [LCOZ10, PB18, TNK12, BCT<sup>+17</sup>, BA14, CDW17, CB13,  
FVAVMGE18, GBV<sup>+16</sup>, GVB<sup>+17b</sup>, HHO14, JML19, KBE<sup>+14</sup>, MGM<sup>+18</sup>,  
MSCH14, RHS<sup>+12</sup>, RSH11, SMM<sup>+13</sup>, SFF<sup>+17</sup>, VGI<sup>+16</sup>, VME<sup>+19</sup>, ZTF<sup>+10</sup>].  
**treatments** [BNS13, CDW17, GVB<sup>+17a</sup>]. **Treg** [KBD13]. **Trematoda**  
[BCM<sup>+17</sup>, PMP<sup>+18</sup>]. **triactinomyxon** [FCJH19]. **trial**  
[BVK<sup>+16</sup>, BSBH10, CCH<sup>+19</sup>]. **tributaries** [BWB<sup>+17</sup>]. **tributary**  
[MKKM15]. **Trichodina** [MUM<sup>+19</sup>]. **Trichosporon** [AMAR18]. **tricolour**  
[RTM<sup>+15</sup>]. **trigger** [Bin14]. **triggers** [SJK<sup>+14</sup>]. **triple** [PPI<sup>+13</sup>, SFF<sup>+17</sup>].  
**triple-dose** [PPI<sup>+13</sup>]. **triploid**  
[ACA<sup>+16</sup>, AAV<sup>+16</sup>, GCWB11, LWZ<sup>+18</sup>, SFR<sup>+17</sup>]. **triploidy**  
[FHFF15, FMH<sup>+15</sup>]. **trophonts** [vGJHS<sup>+11</sup>]. **trophozoites** [WNMK<sup>+16</sup>].  
**tropical** [VMCM14]. **tropism** [ADF14, ADMF15, SFL<sup>+16</sup>]. **trout**  
[ASA10, ASHZ<sup>+12</sup>, AOAH13, AHHR<sup>+10</sup>, AHPR<sup>+16</sup>, AJLC<sup>+16</sup>, AGFG19,  
ABT<sup>+14</sup>, AA10, AMA11, BSW17, BSPS<sup>+18</sup>, BCLM<sup>+19</sup>, BKD17, BHA<sup>+11</sup>,  
BE19, BA14, BLFC12, BAH<sup>+18</sup>, CSS<sup>+16</sup>, CGW<sup>+19</sup>, CHAB10, CKJ<sup>+14</sup>,  
CMH<sup>+17</sup>, CAJD<sup>+18</sup>, CPB<sup>+15</sup>, CMR<sup>+16</sup>, CLS<sup>+15</sup>, DS10, DPTFC10,  
DPTCF10, DMP10, DSSB18, DSSB19, DJR<sup>+19</sup>, DdRTM13, DdRCP13,  
DPADO16, DGS<sup>+14</sup>, DSJA18, DT16, GRB<sup>+17</sup>, GMB<sup>+17</sup>, GFO<sup>+13</sup>,  
GCNB16, GTH11, GPFAG19, GDW<sup>+15</sup>, GMC<sup>+16b</sup>, HGH<sup>+18</sup>, HKBD15a,  
HKBD15b, HJN<sup>+19</sup>, IOO15, JKL<sup>+13</sup>, JAJC<sup>+18</sup>, JDH<sup>+18</sup>, JML19,  
vGJHS<sup>+11</sup>, vGJKR<sup>+17</sup>, KSM<sup>+17</sup>, KEY<sup>+15</sup>, KHG<sup>+17</sup>, KFK<sup>+16</sup>, LPA<sup>+10</sup>,  
LP17, LUP<sup>+18</sup>, LLS<sup>+11</sup>, MBOC19, MNF<sup>+15</sup>, MSC<sup>+17</sup>, MCSM17, MHNY18,  
Mor12, MTLP<sup>+18b</sup>, MNM<sup>+18</sup>, MNM<sup>+19</sup>, MKKM15, NB11, NOV<sup>+11</sup>,  
NDA10, OP14, OLVJ<sup>+13</sup>, OBFR12, OBD<sup>+11</sup>, OSC<sup>+14</sup>, OSAA18, OLT<sup>+10</sup>,  
PDLW17, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PRT<sup>+14</sup>, PSBG<sup>+11</sup>, PGF<sup>+19</sup>, PLCC11,  
PPE<sup>+18</sup>, QPB<sup>+16</sup>]. **trout**  
[RSB13, R̄KH16, RCGGM15, RBL<sup>+11</sup>, RHB<sup>+15</sup>, SHJ<sup>+12</sup>, SPCR<sup>+19</sup>,

SCR<sup>+15</sup>, SVV<sup>+17</sup>, SON<sup>+18</sup>, SSC17, VSS17, XKB12, YDO<sup>+16</sup>]. **trumpeter** [ABC<sup>+10</sup>, CB13]. **trutta** [BSPS<sup>+18</sup>, AGFG19, GFO<sup>+13</sup>, GMG<sup>+19</sup>, OSC<sup>+14</sup>, PGF<sup>+19</sup>]. **truttae** [MUM<sup>+19</sup>]. **Trypanorhyncha** [BB11]. **tshawytscha** [BHT<sup>+17</sup>, BMH<sup>+19</sup>, DWP<sup>+19</sup>, DPD<sup>+18</sup>, GMC<sup>+16a</sup>, GBO<sup>+18</sup>, GTH11, LST<sup>+12</sup>, LF16, LF18, LWMT10, PMPG<sup>+16</sup>, STF<sup>+15</sup>]. **TSV** [APG<sup>+11</sup>]. **Tu** [PLCC11]. **tubiashii** [DABO<sup>+17</sup>]. **tumour** [NRMS14, PHR14, Řeh13]. **Tumours** [BWB<sup>+17</sup>]. **tuna** [CZB<sup>+11</sup>, PSZ<sup>+14</sup>]. **Tunic** [KOS<sup>+10</sup>, PZL<sup>+14</sup>]. **Tunisia** [YMBE13, YB17]. **Tunisian** [CGG<sup>+10</sup>]. **turbot** [COB<sup>+16</sup>, HMW11, JCS11, LBF<sup>+14</sup>, MBB12, MDF<sup>+17</sup>, QXW14, SODB16, WM19, dOAPLá<sup>+17</sup>]. **Turkey** [SDWA18]. **Turkish** [BAH<sup>+18</sup>]. **turpisrotundus** [ZWL10]. **tuvira** [VMCM14]. **twin** [LTC<sup>+14</sup>]. **twins** [ADR11, BQP12]. **Two** [CdAPdC<sup>+19</sup>, MS16, XZZ16, YSV<sup>+13</sup>, BSPS<sup>+18</sup>, BDM<sup>+18</sup>, CRS<sup>+13</sup>, DCG18, FLVA10, GPFAG19, GFW<sup>+10</sup>, HKK<sup>+11b</sup>, HRL15, HLC<sup>+15</sup>, HSHC<sup>+16</sup>, LLL<sup>+12</sup>, MFHHG18, RAM<sup>+18</sup>, RB15, RTM<sup>+15</sup>, SQC<sup>+14</sup>, VDHV<sup>+16</sup>]. **two-dimensional** [LLL<sup>+12</sup>]. **two-step** [HRL15]. **type** [DJR<sup>+19</sup>, EAN<sup>+18</sup>, HBVB16, KHC<sup>+18</sup>, LGS<sup>+14</sup>, MSG<sup>+18</sup>, PBC15, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PRY<sup>+18</sup>, VJWC<sup>+18</sup>, ZWG<sup>+17</sup>]. **types** [DLP<sup>+13</sup>, VCOD17, XKB12]. **typing** [GLK<sup>+16</sup>, ISCF<sup>+19</sup>, RDW18, TCS19, VLVS<sup>+16</sup>]. **Tyrrhenian** [GFB<sup>+13</sup>].

**U** [PMW<sup>+10</sup>, PMH<sup>+11</sup>]. **U-type** [PMH<sup>+11</sup>]. **Uganda** [WMD<sup>+18</sup>]. **ulcer** [SSF<sup>+17</sup>, ZxYJ<sup>+19</sup>]. **ulcerations** [VDD<sup>+18</sup>]. **Ulcerative** [RBS<sup>+16</sup>, HHC<sup>+18</sup>, KOB<sup>+17</sup>, KPT<sup>+11</sup>, KR<sup>+17</sup>, SJT14, VFB<sup>+12</sup>, ZWL<sup>+16</sup>]. **ultrasonographical** [RHST<sup>+16</sup>]. **Ultrastructural** [GMB<sup>+17</sup>, HFT<sup>+12</sup>, MBT<sup>+17</sup>, DCG18, SMS<sup>+19</sup>]. **ultrastructure** [CHWM<sup>+19</sup>, GFS<sup>+14</sup>, LvD18]. **Ultraviolet** [CB13, HPAL10, MUM<sup>+19</sup>]. **unaffected** [JOF<sup>+19</sup>]. **Uncovering** [VMBGE17]. **underlines** [VC17]. **underlying** [JBO<sup>+15</sup>]. **undescribed** [GLK<sup>+16</sup>]. **undosquamis** [KSAB<sup>+14</sup>]. **UNESCO** [GVLE16]. **Unexpected** [HSGD11, LHW<sup>+15a</sup>]. **United** [CDM<sup>+13</sup>, GCS<sup>+18</sup>, NSB<sup>+18</sup>, PTM<sup>+19</sup>]. **units** [HZP<sup>+12</sup>]. **unusual** [QXW14, RVC18]. **unusually** [MLWC11]. **Updated** [YLW<sup>+14</sup>]. **upon** [TTL<sup>+16</sup>]. **upper** [LEM<sup>+19</sup>, SWS<sup>+16</sup>, WBE<sup>+17</sup>, HHC<sup>+18</sup>, JM<sup>+18</sup>]. **uptake** [RRO<sup>+13</sup>, TDLT<sup>+16</sup>]. **Urtica** [AA10]. **Uruguay** [PAZ18]. **USA** [PHR14, CGAS19, FSM<sup>+16</sup>, MTG<sup>+10</sup>, PBBG19]. **usage** [HBS<sup>+14</sup>, MLH<sup>+15</sup>]. **Use** [AA10, CMEV17b, GCGR13, SMM<sup>+13</sup>, ABF15, BW18, CHV<sup>+12</sup>, GTH11, JSJR<sup>+18</sup>, LTM<sup>+19</sup>, LLDL13, MVM<sup>+18</sup>, RSF<sup>+17</sup>, SVL<sup>+17</sup>, SFF<sup>+17</sup>, TMWV14, VBL<sup>+15</sup>]. **used** [BNS13, DZV10, VME<sup>+19</sup>, WDM<sup>+15</sup>]. **uses** [CRO<sup>+18</sup>]. **Using** [BWM<sup>+13</sup>, SDI<sup>+18</sup>, ATM<sup>+10</sup>, ACN12, ASHZ<sup>+12</sup>, AGFG19, BE19, CMEV17a, CHB<sup>+17</sup>, DLLB<sup>+18</sup>, DWL<sup>+17</sup>, DXX<sup>+15</sup>, FCM<sup>+19</sup>, FSV<sup>+18</sup>, GPFAG19, GFM<sup>+11</sup>, ITKH18, JYZ<sup>+14</sup>, KTN<sup>+16</sup>, KKT<sup>+18b</sup>, KKT<sup>+18a</sup>, KSA<sup>+10</sup>, LZZN10, LFH<sup>+11</sup>, LCR<sup>+10</sup>, LJGRI<sup>+10</sup>, MSI<sup>+15</sup>, MID<sup>+19a</sup>, MUM<sup>+19</sup>, MTHB13, MTA<sup>+15</sup>, OWM<sup>+17</sup>, RBAT<sup>+17</sup>, SLKE10, TCS19,

VCOD17, WCW16a, WNLF<sup>+12</sup>, XZZ16, YGL<sup>+18</sup>, YkSKY13]. **Utilization** [ZYW<sup>+10</sup>, BWM<sup>+13</sup>, EKT<sup>+11</sup>, OJRL10]. **utilizing** [ZFZ<sup>+11</sup>]. **Uttarakhand** [SM14].

**V.** [ZZC<sup>+17</sup>]. **vaccinated** [MSC<sup>+17</sup>, PBMB11]. **Vaccination** [EDV<sup>+18</sup>, FMH<sup>+15</sup>, KBD13, ASHZ<sup>+12</sup>, ESV<sup>+19b</sup>, JAJC<sup>+18</sup>, LAN<sup>+14</sup>, MBS<sup>+19a</sup>, MID<sup>+19b</sup>, NCNB18]. **vaccine** [BVK<sup>+16</sup>, BSBH10, CLWJ13, CLGP15, CCH<sup>+19</sup>, CGR17, ÇOÇ<sup>+16</sup>, CLS<sup>+15</sup>, DMK<sup>+19</sup>, ESV<sup>+19b</sup>, FLC<sup>+17</sup>, GHB<sup>+11</sup>, HLL<sup>+12</sup>, HJN<sup>+19</sup>, JKC<sup>+11</sup>, JOF<sup>+19</sup>, vGJKR<sup>+17</sup>, LPA<sup>+10</sup>, LLDL13, LLX<sup>+19</sup>, LXHL11, MBS<sup>+19a</sup>, MSC<sup>+17</sup>, RPMRLJ<sup>+19</sup>, RSGB<sup>+14</sup>, SCK13, SLKE10, WHR<sup>+18</sup>, ZWL<sup>+14</sup>]. **vaccine-induced** [GHB<sup>+11</sup>]. **vaccine-mediated** [JOF<sup>+19</sup>]. **vaccines** [Dal18, ELI<sup>+17</sup>, NFA15, NNC<sup>+18</sup>, ZXW<sup>+12</sup>]. **vacuoles** [LTC16]. **Vagococcus** [TCFáS19, TCS19, YDO<sup>+16</sup>]. **Vahl** [LZGZ16]. **Valenciennes** [BCW<sup>+15</sup>, GMP<sup>+11</sup>, GGW<sup>+11</sup>, GCWB11, HLL<sup>+12</sup>, HCEH16, KHS11, LLL<sup>+12</sup>, LJGRI<sup>+10</sup>, LXHL11, MVWS13, NWMK16, PMBM13, SS17, XKBC12, YYW<sup>+14</sup>]. **Validation** [BWZ<sup>+17</sup>, CLC<sup>+17</sup>, GM10, LPCC12, BMBS12, ÇOÇ<sup>+16</sup>, EAM<sup>+13</sup>, JKS<sup>+13</sup>, KJW<sup>+12</sup>, KBJ<sup>+13</sup>, TSS18, VCOD17, vBVL<sup>+16</sup>]. **values** [GCW17, SEK<sup>+16</sup>]. **valvularis** [WEPB<sup>+18</sup>]. **vannamei** [BTN<sup>+18</sup>, CMEV17a, CMS<sup>+17</sup>, CMEV17b, CLW<sup>+13</sup>, EEMCEGSP16, HMV<sup>+17</sup>, HXZ<sup>+16</sup>, JQK14, KS19, NNCLGC<sup>+11</sup>, RPGCIG17, SSV<sup>+17</sup>, STG<sup>+10</sup>, SNM<sup>+16</sup>, SVM<sup>+18</sup>, TMM<sup>+15</sup>, TSK<sup>+19</sup>, TTL<sup>+16</sup>, TDLT<sup>+16</sup>, TDT<sup>+16</sup>]. **vapA** [GLK<sup>+16</sup>]. **Var** [BVL<sup>+18</sup>, GVLE16]. **variability** [SBW<sup>+18</sup>, VCS<sup>+19</sup>]. **variable** [ACAS14, HZP<sup>+12</sup>, PPF<sup>+12</sup>]. **variant** [CKTT10, LDA<sup>+19</sup>, QXW14]. **variants** [BVL<sup>+18</sup>, HBVB16, MFHHG18, TOK<sup>+16</sup>]. **Variation** [GBV<sup>+16</sup>, VDHV<sup>+16</sup>, DZV10, LTC17, WNAF<sup>+13</sup>]. **variations** [HBVB16, JJB15, JGI<sup>+10</sup>]. **various** [BLL<sup>+17</sup>]. **vary** [GRP<sup>+15</sup>]. **vascular** [RSB13]. **vector** [MSB<sup>+19</sup>, NLC<sup>+16</sup>, SHV<sup>+16</sup>]. **vein** [ASW16]. **ventral** [DKG<sup>+17</sup>]. **ventricosa** [RPJ<sup>+18</sup>]. **verification** [ŘKH18, SHW<sup>+11</sup>]. **veronii** [ZWL<sup>+16</sup>, CHH<sup>+14</sup>, CYS17, DTJ<sup>+17</sup>, FMA<sup>+19</sup>, MP18, RKK<sup>+19</sup>, YZW<sup>+19</sup>]. **Verrucous** [RKPG16]. **Vertebral** [DWP<sup>+19</sup>, JHM<sup>+18</sup>, FHFF15, GHB<sup>+11</sup>, LWZ<sup>+18</sup>, LGS<sup>+14</sup>, MLF<sup>+10</sup>, dALF<sup>+17</sup>]. **vertical** [JNS<sup>+19</sup>, KSA<sup>+10</sup>, NRF<sup>+18</sup>, YTKS19]. **VERV** [GFB<sup>+13</sup>]. **VHS** [GVC<sup>+19</sup>, HLL<sup>+12</sup>, HAS<sup>+19</sup>]. **VHSV** [GMN12, GGW<sup>+11</sup>, GRP<sup>+15</sup>, MMBS10, ZLX<sup>+19</sup>]. **VHSV-IVb** [GMN12]. **via** [KJW<sup>+17</sup>, PBM<sup>+15</sup>, RPMRLJ<sup>+19</sup>, TRS19, DDBC<sup>+15</sup>]. **viability** [CAS<sup>+18</sup>, FCJH19, HPAL10, MGM<sup>+18</sup>, VCLW16]. **Vibrio** [AHAMR<sup>+19</sup>, BTN<sup>+18</sup>, BVK<sup>+16</sup>, BT14, BGC<sup>+17</sup>, BBP18, BFC<sup>+15</sup>, CLWJ13, CCLGRM<sup>+17</sup>, CCH<sup>+19</sup>, CLW<sup>+11</sup>, CKTT10, CDG<sup>+14</sup>, DD18, DJQ<sup>+12</sup>, DABO<sup>+17</sup>, FLVA10, FMB<sup>+11</sup>, HRL15, HBVB16, HXZ<sup>+16</sup>, HGX<sup>+19</sup>, ITKH18, JQK14, KTN<sup>+16</sup>, KYB<sup>+15</sup>, LLDL13, LSC<sup>+14</sup>, LSA<sup>+15</sup>, LMM<sup>+15</sup>, LMM<sup>+16</sup>, MBB12, MKMY10, NNC<sup>+18</sup>, NDA<sup>+19</sup>, PKLH19, QWTL17, QZZ<sup>+18b</sup>,

RGD<sup>+12</sup>, RRO<sup>+13</sup>, RCD<sup>+17</sup>, SSF<sup>+17</sup>, SNM<sup>+16</sup>, SCS<sup>+12</sup>, TMC<sup>+12</sup>,  
 VDD<sup>+18</sup>, WBF<sup>+10</sup>, WZQ<sup>+16</sup>, WM19, YGL<sup>+18</sup>, YLX<sup>+19a</sup>, YLS<sup>+19</sup>,  
 ZZC<sup>+17</sup>, ZWY<sup>+11</sup>, ZQB<sup>+11</sup>, ZJR<sup>+18</sup>, ZxYJ<sup>+19</sup>, ZXW<sup>+12</sup>, ZDWH18].  
**vibrio**ferrin [COB<sup>+16</sup>]. **Vibrionaceae** [NMM<sup>+18</sup>]. **Vibriosis**  
 [PDDC<sup>+14</sup>, HBH<sup>+19</sup>]. **vibriosis** [KSS17, TNK12]. **Vibrogen** [CCH<sup>+19</sup>].  
**Vibrogen-2** [CCH<sup>+19</sup>]. **Victoria** [MCW<sup>+18</sup>]. **Vietnam** [BAD<sup>+12</sup>].  
**Vietnamese** [CTK<sup>+10</sup>]. **Viola** [YLX<sup>+19b</sup>]. **viraemia**  
 [EBM<sup>+18</sup>, GSBEM15, MPBM<sup>+16</sup>, OCLI<sup>+19</sup>, SKN<sup>+16</sup>]. **Viral**  
 [AHRH<sup>+10</sup>, DVC<sup>+17</sup>, GGW<sup>+11</sup>, HPAL10, VPP<sup>+12</sup>, WKW13, WNAJ<sup>+16</sup>,  
 AHRP<sup>+16</sup>, Ano12c, BRMG13, Bin14, DSA<sup>+12</sup>, DAB<sup>+12</sup>, DPADO16,  
 EKED<sup>+17</sup>, GJVT<sup>+11</sup>, GFB<sup>+19</sup>, GFB<sup>+13</sup>, GMN12, GFW<sup>+10</sup>, GVC<sup>+19</sup>,  
 HLL<sup>+12</sup>, HKD<sup>+10</sup>, HGG<sup>+11</sup>, JQK14, JKS<sup>+13</sup>, KKK15, KF10a, KF10b,  
 KOS<sup>+10</sup>, LRD<sup>+19</sup>, LFH<sup>+11</sup>, LVADB17, LNC<sup>+17</sup>, MMBS10, MDC<sup>+18</sup>, MF12,  
 MMW<sup>+15</sup>, NOST<sup>+16</sup>, OEG<sup>+13</sup>, PBM<sup>+15</sup>, PJJ<sup>+12</sup>, RAM<sup>+18</sup>, RAM<sup>+19</sup>,  
 RMS<sup>+13</sup>, SHJ<sup>+12</sup>, SOGR<sup>+19</sup>, SJ11, TDS<sup>+19</sup>, VLVS<sup>+16</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>,  
 WDM<sup>+15</sup>, WMM17, WXL16, WKW<sup>+11</sup>, Wen16, WNSAL12, XQS<sup>+15</sup>,  
 YNL11, ZLX<sup>+19</sup>]. **viral-induced** [XQS<sup>+15</sup>]. **viremia** [MGN<sup>+16</sup>, XWP<sup>+18</sup>].  
**Virginia** [PBBG19]. **virginica** [CBM<sup>+18</sup>]. **viridans** [CG11]. **Virion** [FE11].  
**Virucidal** [JST<sup>+19</sup>]. **Virulence** [BGG11, DSLR16, EBM<sup>+18</sup>, JDH<sup>+18</sup>,  
 RPGCIG17, XXL<sup>+19</sup>, ZZC<sup>+17</sup>, BHF13, BLF<sup>+16</sup>, BGC<sup>+17</sup>, BFC<sup>+15</sup>,  
 COB<sup>+16</sup>, CD17, CG11, CHB<sup>+17</sup>, CDG<sup>+14</sup>, DSSB18, DSSB19, EA18,  
 FMB<sup>+11</sup>, GTGCM19, HZJ<sup>+19</sup>, HGX<sup>+19</sup>, JMS13, JJSJ15, LCV<sup>+17</sup>, LFD<sup>+17</sup>,  
 LLLG18, LZZN10, LXZ<sup>+19</sup>, NDA<sup>+19</sup>, RCD<sup>+17</sup>, SL15, STES14, TDH<sup>+10</sup>,  
 VSS17, VDHV<sup>+16</sup>, YZW<sup>+19</sup>, ZJDL18, ZKL<sup>+19</sup>, ZWL<sup>+16</sup>, BAMYAH19].  
**Virulence-associated** [ZZC<sup>+17</sup>]. **virulence-related** [COB<sup>+16</sup>]. **virulent**  
 [DZC<sup>+16</sup>, FNISE12, GPL<sup>+12</sup>, MAC<sup>+15</sup>, OFA11, RPM<sup>+19</sup>, WZA10]. **virus**  
 [ADMF15, ATM<sup>+10</sup>, ARR<sup>+18</sup>, ABVS18, ASHZ<sup>+12</sup>, AOAH13, AHRH<sup>+10</sup>,  
 AHRP<sup>+16</sup>, AAUHW15, Ano12c, APG<sup>+11</sup>, BLdA<sup>+18</sup>, BWNS<sup>+11</sup>, BAH<sup>+18</sup>,  
 CVGR<sup>+13</sup>, CCCTA<sup>+14</sup>, CNN<sup>+10</sup>, CWW<sup>+18</sup>, CGW<sup>+19</sup>, CLL<sup>+10</sup>, CLW<sup>+13</sup>,  
 CGG<sup>+10</sup>, CMS<sup>+19</sup>, CCME16, DLCC<sup>+13</sup>, DZV10, DCZ<sup>+17</sup>, DPADO16,  
 DCM13, DBM<sup>+14</sup>, EYF<sup>+19</sup>, ESA<sup>+10</sup>, ECP<sup>+10</sup>, EKT<sup>+11</sup>, EBM<sup>+18</sup>,  
 EKED<sup>+17</sup>, FSO<sup>+10</sup>, FE11, GJVT<sup>+11</sup>, GL18, GFB<sup>+13</sup>, GSBEM15, GGW<sup>+11</sup>,  
 GBSF12, GFS<sup>+14</sup>, GVC<sup>+19</sup>, GHW<sup>+15</sup>, GCS<sup>+18</sup>, HSC<sup>+16</sup>, HVM<sup>+17</sup>,  
 HVVV15, HGG<sup>+11</sup>, HZP<sup>+12</sup>, HHX<sup>+15</sup>, HPAL10, IBFL19, IOO15, JST<sup>+19</sup>,  
 JKC<sup>+11</sup>, JQK14, JHW17, JFWH19, JNS<sup>+19</sup>, JYZ<sup>+14</sup>, JGI<sup>+10</sup>, JSK<sup>+10</sup>,  
 JKS<sup>+13</sup>, JJS<sup>+12</sup>, JMS13, JJSJ15, KKK15, KF10a, KF10b, KKK<sup>+18</sup>,  
 KDA<sup>+18</sup>, KBD13, KWD<sup>+16</sup>, LC17, LASRA<sup>+19</sup>, LYL<sup>+18</sup>, LRD<sup>+19</sup>, LQY11,  
 LLWL15, LHW<sup>+15a</sup>, LGJ19, LJGRI<sup>+10</sup>, LVADB17, MLH<sup>+15</sup>, MBOC19,  
 MRR<sup>+14</sup>, MKI<sup>+15</sup>, MMWK19, MPBM<sup>+16</sup>, MRN<sup>+19</sup>, MMBS10, MBS<sup>+17</sup>,  
 MSB<sup>+19</sup>, MTK<sup>+10</sup>]. **virus** [MAC<sup>+15</sup>, MFES18, MSI<sup>+15</sup>, MF12, MGN<sup>+16</sup>,  
 MTHB13, MCW<sup>+18</sup>, MNM<sup>+18</sup>, MNM<sup>+19</sup>, MMH10, MCO11, MMW<sup>+15</sup>,  
 MMNL14, NMV<sup>+19</sup>, NNCLGC<sup>+11</sup>, NSC<sup>+18</sup>, NB10, NOST<sup>+16</sup>, OTN<sup>+12</sup>,  
 OKS<sup>+13</sup>, OMO<sup>+15</sup>, OBFR12, OEG<sup>+13</sup>, OCLI<sup>+19</sup>, PTM<sup>+19</sup>, PHvdH12,  
 PWHW18b, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PBM<sup>+15</sup>, PSK<sup>+13</sup>, PJJ<sup>+12</sup>, PYSS19,

RNM<sup>+12</sup>, RPGCIG17, RDN<sup>+12</sup>, RSMH09, SJDC<sup>+13</sup>, SPTDEE<sup>+15</sup>, SSV<sup>+10</sup>, SGB<sup>+16</sup>, SHJ<sup>+12</sup>, STG<sup>+10</sup>, SP15, SKN<sup>+16</sup>, SWD<sup>+14</sup>, SZZSFN<sup>+14</sup>, SVM<sup>+18</sup>, SG12, SEM18, SJ11, SSO<sup>+14</sup>, SRD<sup>+16</sup>, TMM<sup>+15</sup>, TIK<sup>+14a</sup>, TSS18, TB12, TSK<sup>+19</sup>, TRS19, TTL<sup>+16</sup>, TCM<sup>+19</sup>, TDT<sup>+16</sup>, VLVS<sup>+16</sup>, VCOD17, VBL<sup>+15</sup>, VBL<sup>+16</sup>, WWS<sup>+11</sup>, WCW16a, WWZ<sup>+18</sup>, WKW<sup>+11</sup>, WCW<sup>+16b</sup>, WNSAL12, WNAF<sup>+13</sup>, XJL<sup>+19</sup>, XWP<sup>+18</sup>, YTKS19, YLSW14, YHY<sup>+16</sup>, YLL<sup>+18</sup>, YCNW18, YWW<sup>+19</sup>, ZLX<sup>+19</sup>, ZLN<sup>+17</sup>, CCCTA<sup>+14</sup>, LLLG18, NFF<sup>+17</sup>, WNGS<sup>+17</sup>, RWTB17, SRM<sup>+18</sup>, SNK<sup>+19</sup>. **virus-3** [SEM18]. **virus-like** [SWD<sup>+14</sup>]. **viruses** [BSC<sup>+14</sup>, CRAG<sup>+12</sup>, DPADO16, KKT<sup>+18b</sup>, NSC<sup>+15</sup>, PPE<sup>+18</sup>]. **Visceral** [ZZA<sup>+14</sup>, ZWG<sup>+17</sup>]. **viscosa** [BGG11, ESBE18]. **visual** [WSX<sup>+18</sup>]. **visualization** [DXX<sup>+15</sup>, FMM<sup>+19</sup>, KTK17]. **vitellogenic** [CZB<sup>+11</sup>]. **vitreus** [GRP<sup>+15</sup>, VBL<sup>+16</sup>, VKK<sup>+19</sup>]. **vitro** [AMRHM18, ASS19, DSSB19, NMV<sup>+19</sup>, OMB<sup>+19</sup>, SSG<sup>+19</sup>, SOGR<sup>+19</sup>, TFG19, TKS<sup>+18</sup>, VDO<sup>+18a</sup>, VMBGIC19, YLX<sup>+19b</sup>, AS17, APG<sup>+11</sup>, CRBLC<sup>+17</sup>, CHAB10, DSSB18, KSAB<sup>+14</sup>, MLWC11, MBT<sup>+17</sup>, Mor12, NSE<sup>+17</sup>, PZL<sup>+14</sup>, RBAT<sup>+17</sup>, SHS14, STES14, SBW11, TDH<sup>+10</sup>, VMCM14, XZZ16]. **vivipara** [BCM<sup>+17</sup>]. **viviparous** [AHB<sup>+17</sup>]. **vivo** [AMRHM18, DLLB<sup>+18</sup>, DSSB19, GBO<sup>+18</sup>, LLLG18, LXZ<sup>+19</sup>, SOGR<sup>+19</sup>, YLX<sup>+19b</sup>, BKD17, BLFRCQ10, DSSB18, KAEMEM13, LVADB17, MLEM16, PDLW17, PZL<sup>+14</sup>, RBAT<sup>+17</sup>]. **VNTR** [HZP<sup>+12</sup>]. **VNTRs** [DZV10]. **vollucellus** [LRB<sup>+17</sup>]. **vortens** [MLWC11]. **VP2** [CGW<sup>+19</sup>]. **VP26** [SRD<sup>+16</sup>]. **VP28** [MTK<sup>+10</sup>, SRD<sup>+16</sup>, TMM<sup>+15</sup>]. **VP38** [ZWG<sup>+18</sup>]. **VP51B** [LC17]. **VREFT** [GGW<sup>+11</sup>]. **vs** [ZCCN13]. **vs** [VPS<sup>+14</sup>]. **vulnificus** [FLVA10, QZZ<sup>+18b</sup>, YGL<sup>+18</sup>]. **vulvolacinata** [SDZN19].

**W** [JCN<sup>+14</sup>]. **Wadden** [GVLE16]. **wageneri** [GAC10]. **wageneri-group** [GAC10]. **Waite** [KRD<sup>+17</sup>, LLH<sup>+14b</sup>]. **Walbaum** [ASA10, ASHZ<sup>+12</sup>, AOAH13, AHHR<sup>+10</sup>, AJLC<sup>+16</sup>, ABT<sup>+14</sup>, AHTCA<sup>+17</sup>, AA10, AMA11, BSW17, BCLM<sup>+19</sup>, BHA<sup>+11</sup>, BA14, BPPKJ10, BLP10, BLFC12, CSS<sup>+16</sup>, CHAB10, CMH<sup>+17</sup>, CPB<sup>+15</sup>, CMR<sup>+16</sup>, CLS<sup>+15</sup>, DS10, DPTFC10, DPTCF10, DMP10, DJR<sup>+19</sup>, DdRTM13, DdRCP13, DT16, GMC<sup>+16a</sup>, GCNB16, GTH11, GPFGAG19, GDW<sup>+15</sup>, GMC<sup>+16b</sup>, HKBD15a, HKBD15b, JKL<sup>+13</sup>, JDH<sup>+18</sup>, JML19, vGJHS<sup>+11</sup>, KSM<sup>+17</sup>, KPT<sup>+11</sup>, KBE<sup>+14</sup>, LPA<sup>+10</sup>, LLS<sup>+11</sup>, LST<sup>+12</sup>, LF16, LF18, LWMT10, MNF<sup>+15</sup>, NOV<sup>+11</sup>, NDA10, OP14, OBFR12, OBD<sup>+11</sup>, OLT<sup>+10</sup>, PSBG<sup>+11</sup>, PLCC11, PMPG<sup>+16</sup>, RSB13, RCGGM15, RHB<sup>+15</sup>, SMJ<sup>+12</sup>, STF<sup>+15</sup>, SHJ<sup>+12</sup>, SBM<sup>+11</sup>, SCR<sup>+15</sup>, SKJ13, XKB12, YDO<sup>+16</sup>]. **Wales** [TDJ<sup>+10</sup>, TWJP10]. **Walker** [LRB<sup>+17</sup>]. **walking** [BNC<sup>+11</sup>]. **wall** [BB11, WBF<sup>+10</sup>]. **Walleye** [GRP<sup>+15</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, VKK<sup>+19</sup>, WMF14]. **Wanted** [CBM<sup>+18</sup>]. **Ward** [RGMGG<sup>+18</sup>]. **warmer** [GMN12]. **was** [GMC<sup>+16a</sup>]. **Washington** [PPE<sup>+18</sup>]. **waste** [DAB<sup>+12</sup>, PJL<sup>+12</sup>]. **Water** [SFR<sup>+17</sup>, BMK17, CHV<sup>+12</sup>, CD17, CB13, GDW<sup>+15</sup>, GHB<sup>+11</sup>, HH13a, HMW11, JJV<sup>+15</sup>, KSS17, KPM<sup>+11</sup>, MSR<sup>+10</sup>, MUM<sup>+19</sup>, MoSMS18,

MTLP<sup>+18b</sup>, MSK<sup>+12</sup>, NOV<sup>+11</sup>, OM10, PST<sup>+16</sup>, RHTC19b, Sam10, SVY<sup>+14</sup>, VCN<sup>+10</sup>, WNGS<sup>+17</sup>, YkSKY13]. **waterborne** [HKBD15b]. **waters** [BCL<sup>+19</sup>, CNN<sup>+10</sup>, EA18, JZK<sup>+14</sup>, LRAP17, MMBS10, RBS<sup>+16</sup>, RSF<sup>+17</sup>, RGMGG<sup>+18</sup>, RBR19, SBH<sup>+16</sup>, SN14]. **watershed** [PHR14]. **WE-skin11f** [VKK<sup>+19</sup>]. **weakfish** [CCM<sup>+11</sup>]. **Webb** [RAM<sup>+17</sup>]. **websteri** [CBM<sup>+18</sup>]. **wedge** [LPVGL<sup>+10</sup>]. **weedy** [LYD<sup>+15</sup>]. **weight** [FMH<sup>+15</sup>, TJB<sup>+15</sup>]. **weirs** [LST<sup>+12</sup>]. **Weissella** [CLS<sup>+15</sup>, GMC<sup>+16b</sup>, MHNY18]. **weissellosis** [MHNY18]. **well** [KKK<sup>+18</sup>, PSZ<sup>+14</sup>]. **well-being** [PSZ<sup>+14</sup>]. **West** [HHM<sup>+14</sup>, SBH<sup>+16</sup>, PRWG17]. **western** [BHT<sup>+17</sup>, BA13, EEMCEGSP16, PMP<sup>+18</sup>, RPGCIG17, SDJH16, FSV<sup>+18</sup>, FSB<sup>+18c</sup>, RSR<sup>+18</sup>]. **whaler** [RBF14]. **which** [CXW<sup>+19</sup>, QZZ<sup>+18b</sup>]. **while** [JOF<sup>+19</sup>]. **White** [CNN<sup>+10</sup>, CLW<sup>+13</sup>, DCV<sup>+14</sup>, BTN<sup>+18</sup>, BWB<sup>+17</sup>, BMT<sup>+15</sup>, DLCC<sup>+13</sup>, DZV10, DCMM13, DBM<sup>+14</sup>, ESA<sup>+10</sup>, EEMCEGSP16, FSO<sup>+10</sup>, HVVV15, HZP<sup>+12</sup>, HKF<sup>+16</sup>, JQK14, JGI<sup>+10</sup>, JJS<sup>+12</sup>, LQY11, MTK<sup>+10</sup>, MGN<sup>+16</sup>, NRMS14, NSC<sup>+18</sup>, PSK<sup>+13</sup>, RNM<sup>+12</sup>, RPGCIG17, RDN<sup>+12</sup>, RBF14, SMS<sup>+10</sup>, STS<sup>+15</sup>, SPTDEE<sup>+15</sup>, SSV<sup>+10</sup>, SP15, SVM<sup>+18</sup>, SRD<sup>+16</sup>, TMM<sup>+15</sup>, TSK<sup>+19</sup>, TTL<sup>+16</sup>, TDT<sup>+16</sup>, XKB12, YHY<sup>+16</sup>, DCZ<sup>+17</sup>].

**whiteleg**

[CMEV17a, CMS<sup>+17</sup>, CMEV17b, KS19, SSV<sup>+17</sup>, STG<sup>+10</sup>, TMM<sup>+15</sup>].

**whitemouth** [MPM16]. **whiting** [RGMGG<sup>+18</sup>]. **Whole**

[RPMRLJ<sup>+19</sup>, RKK<sup>+19</sup>, BHF13, KTK17]. **Whole-genome** [RKK<sup>+19</sup>].

**wickerhamii** [JDRM17]. **wide** [KF10a, LHW<sup>+15a</sup>]. **widespread** [PPE<sup>+18</sup>].

**wild**

[ARR<sup>+18</sup>, AAUHW15, AGFG19, ADR11, BSC<sup>+14</sup>, BFFA<sup>+12</sup>, BGCKF12, CNN<sup>+10</sup>, EMA17, EA18, FBS13, FBAS16, GFO<sup>+13</sup>, GGGM18b, GMG<sup>+19</sup>, GFB<sup>+13</sup>, HBVB16, HGPD11, HFKF17, JKO<sup>+13</sup>, JHM<sup>+18</sup>, JHRW17, JNN<sup>+11</sup>, KCD<sup>+14</sup>, KMGK<sup>+18</sup>, LHW<sup>+15a</sup>, LDEH17, LFL19, MMWK19, MMB<sup>+15</sup>, MMBS10, MVWS13, MCW<sup>+18</sup>, PTM<sup>+19</sup>, RDN<sup>+12</sup>, RBS<sup>+16</sup>, RSF<sup>+17</sup>, RMSH09, RBWR<sup>+15</sup>, RSM<sup>+18</sup>, SBM<sup>+11</sup>, SDZN19, SWE<sup>+19</sup>, SN14, TJA<sup>+13</sup>, VPS<sup>+14</sup>, VCS<sup>+19</sup>, WDM<sup>+15</sup>, WMM17, ZLX<sup>+19</sup>, dSRSHGá<sup>+19</sup>].

**wild-caught** [HFKF17, RBWR<sup>+15</sup>, RSM<sup>+18</sup>]. **wild-hatched** [SBM<sup>+11</sup>].

**William** [EW17]. **wingei** [ADR11]. **Winter** [MP18, KHG<sup>+17</sup>]. **within**

[BMBS12, DZV10, LLC<sup>+11</sup>, YEK<sup>+17</sup>]. **Wootten** [Rob14a]. **world**

[GVLE16]. **worldwide** [DBV<sup>+13</sup>, MNG<sup>+18</sup>]. **worm** [BGRB14]. **wound**

[ASSP<sup>+15</sup>, SSG<sup>+19</sup>]. **wrasse**

[BVK<sup>+16</sup>, BT14, MMW<sup>+15</sup>, RSP<sup>+17</sup>, RSM<sup>+18</sup>, SRM<sup>+18</sup>, Tre12, WDM<sup>+15</sup>].

**WSSV** [DCZ<sup>+17</sup>, DCMM13, HVVV15, JPG<sup>+19</sup>, LC17, PSK<sup>+13</sup>, RDN<sup>+12</sup>,

SSV<sup>+10</sup>, WLX<sup>+10</sup>, WXWD15, YHY<sup>+16</sup>]. **wulii** [ZYW<sup>+10</sup>].

**X** [EKT<sup>+11</sup>, MFES18]. **Xanthine** [BSD<sup>+18d</sup>, BSD<sup>+18c</sup>, BSD<sup>+18a</sup>].

**xenobiotica** [CBH<sup>+15</sup>]. **xenomias** [LRAP17]. **XI** [BNS13].

**YaeT** [KREM14]. **yasunagai** [SS17]. **Yasutake** [EW17]. **year**

[KZJ<sup>+17</sup>, SBW<sup>+18</sup>, WGL17]. **yearling** [LXL<sup>+18</sup>, SFR<sup>+17</sup>]. **years**



[BMMC<sup>+</sup>15]. **yeast** [SCK13, WBF<sup>+</sup>10]. **yellow** [CWW<sup>+</sup>18, GM11, HZJ<sup>+</sup>19, KHLL16, LYD<sup>+</sup>15, LRD<sup>+</sup>19, NNCLGC<sup>+</sup>11, OEG<sup>+</sup>13, PHvdH12, SGQ<sup>+</sup>15, STG<sup>+</sup>10, XQS<sup>+</sup>15, ZZA<sup>+</sup>14, ZWG<sup>+</sup>17]. **yellowfin** [Dig13, Dig15, Pol15]. **Yellowstone** [MKKM15]. **yellowtail** [KHS11, MFS<sup>+</sup>17, NWMK16, RBAT<sup>+</sup>17, STIG17, YYF<sup>+</sup>10]. **Yersinia** [ASA10, AHTCA<sup>+</sup>17, CMH<sup>+</sup>17, DS10, DSSB18, DSSB19, GTGCM19, GCNB18, GTH11, JKL<sup>+</sup>13, KSM<sup>+</sup>17, KJW<sup>+</sup>12, NCNB18, SON<sup>+</sup>18, TALA11, TDH<sup>+</sup>10, WNCR12]. **Yersiniosis** [GGGM14]. **YHV** [CWW<sup>+</sup>18, LRD<sup>+</sup>19]. **YHV-3** [CWW<sup>+</sup>18]. **YHV-8** [LRD<sup>+</sup>19]. **Yin** [GAC10, MWS17]. **yl** [SRD<sup>+</sup>16]. **York** [GFB<sup>+</sup>19]. **young** [SBW<sup>+</sup>18].

**Zambia** [HHC<sup>+</sup>18]. **Zealand** [BMH<sup>+</sup>19, DWP<sup>+</sup>19, GBO<sup>+</sup>18, RPJ<sup>+</sup>18]. **zebra** [Bin14]. **Zebrafish** [CKvGJB17, SSG<sup>+</sup>19, AMRHM18, BLdA<sup>+</sup>18, BWS<sup>+</sup>18, CDW17, CBW19, CXK16, CSSWK10, KWGS19, KDP<sup>+</sup>17, LRC<sup>+</sup>18, LHW<sup>+</sup>12, LHW<sup>+</sup>15b, MLR<sup>+</sup>12, MWRSK17, MGF17, RAM<sup>+</sup>19, SZM<sup>+</sup>15, SSK17, ZJR<sup>+</sup>18, EDP<sup>+</sup>17]. **Zeuxapta** [STIG17]. **Zeylanicobdella** [KCL14]. **Zhejiang** [LQY11]. **Zinc** [DGS<sup>+</sup>14]. **ZnuABC** [DS10]. **Zoarcis** [AHB<sup>+</sup>17]. **zonetail** [BCJ13]. **zonura** [BCJ13]. **Zoogoneticus** [RAM<sup>+</sup>17]. **zoonotic** [FŠK<sup>+</sup>19]. **Zschokkella** [YMBE13].

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