A Complete Bibliography of Publications in
*Journal of Fish Diseases* (2020–2029)

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Title word cross-reference

+ [LWT+22], \( \alpha [BGZW22], 2 [ZWB+23], \beta [LLC+21, RGS+21], \gamma [ZWB+23], \Delta [DOW+22], \lambda / \kappa [CSGB+21, CSVG+22], \times [AGR+22, FFB+21, LPGA+21, LPGW+22, SLA+20, VGW+21].

&n [CLC+22].


[SGR+20a, WSW+20].

01 [CCY+23].

1
1) [FdSB+22, ASF+21, EBBIAH21, FVC+21, PEN+21, PPT+20, YLC+21, dYdRF+F+23]. 10 [MHA+20]. 12-b [BME+20]. 124 [FZC+23, YCC+21]. 12° [LWR+20].

2 [FZC+23]. 22° [BLJ+21]. 26 [YJL+23b].

3 [PEš+20, TBMP23, TR23]. 36 [KSM+21]. 3D [FSS+21].

4 [WCT+23].

5 [LHLS20]. 57 [AHSB+22]. 57-kDa [AHSB+22].

7-arylaminoisoquinolin-5 [VBL+23]. 7MAnt [VBG+22].

8-hydroxyl [LYZ+22]. 8-quinones [VBL+23].


African [MDAO+22]. after [ASF+21, FYH+21, RKC+23, WCT+23, XKF+22]. against [ASA+20, AABB23, AAZ+20, BK+21, BMK+20, CZM+22, CLC+22, DXD+21, DZJ+21, GZL+21, HLP+21, HSH+22, IFIZ+22, JOM+20,
anomalies [EGRD22, PDZ+22]. Antarctic
QGG+21, VBG+22, SDMO+20]. antihelmintic [MSF+20]. Antibacterial
[KKL+22, HSH+22, XQZ+22, YJL+23b, ZYB+20]. antibiotic
[DXL+20b, MWH+21, QCZ+22]. Antibiotics [DCB20, RCC+21].
antibodies [ZDF+23, ZGz+22]. antibody
[ZZF+23, WWK+22, antifungal [MLL+22]. antigen
[DXL+20a]. antigen-presentation [DXL+20a]. Antigenic [JXJ+22].
Antimicrobial [VLSM+20, ASA+20, AMM+22, GIS+21, HLH+23b,
MBR+22, PLS+22, RBM+22, XFL+21, XJM+21, DBDSP20]. antioxidant
[CSGB+21]. Antiparasitic [ZYB+23, JKM+20]. Antiviral
[LYX+20, SZH+22, SCX+21]. aodp [ZJF+22]. aortic [BME+20].
Aphanomyces [WBM21]. apoptosis
[FZC+23, HCW+20, HWC+21, KQW+21, WKL+22, ZYL+22]. Aposelemis
[KKC+23]. Application [PTK+21, ASG+22, CQG+21, GZZ+21, LTW+21,
LY+22, MWY+22, SNY+21, WYR+23, YTS22, ZZF+23]. applications
[SAAB+21]. approach [WLK+22]. approaches [OKL+22]. Aptamer
[LXW+20, WLK+22]. Aptamer-based [LXW+20]. aptamers [YLW+21].
aquabirnavirus [dYdRFF+23]. aquaculture
[AHCSI20, BTA+21, CZMP21, DWK+22, DBDSP20, KNG+22, LPGA+21,
MHP+20, MPP+20b, PTBSF22, QRTD+22, RCC22, RGS+22, SAAB+21,
SM+20, TPSJS20a, TPSJS20b, UPZ+23, WYR+23, ZYB+23, ZOS+20].
aquaria [NLH+20]. aquarium [ACGDO+21, JLM+20, LFSB+21, SBVC21].
aquarium-housed [ACGDO+21]. aquatic
[MWY+22, NNC+23, RCC+21, ZLS+21]. aquatilis [LHLS20]. Aquimarina
[MSS+20]. arapaima [dCJBG22, dCJBG22, dAMHdOCF+23]. Arctic
[MHR23]. areas [SPHM23]. argenteus [ZHL+21]. Argulidae [POS+20].
Argulus [POS+20]. armoured [DDH+22]. art [BONB20]. Artemia
[PKF+21]. arteritis [BME+20]. arugamensis [MHP+20].
arylaminoisoquinolin [VBL+23]. As-Cathelicidin4 [CZM+22]. Ascarius
[PDM+21, PGH+21]. ascO [ZYL+22]. Asia [ZGL+20]. Asian
[CSDS21, GXW+23, PTW21, PPWC20, RBM+22, RKC+23, SSMC22].
Aspects [ADAO22]. assay [CMM+20, CQG+21, KDS+21, LWH+21, PS23,
QWL+21, SNY+22, SKR+20, TBK+22, TCS21, YLM+21]. assays
[GWF+22, PDM+21, YTS22]. assemblages [TBB+21]. assess [KH20].
Assessing [CDJ+23, LAH21, PAH+22, YYS+22]. Assessment
[BMJ+21, CMN+20, ASA+20, LPGA+21, NLPM+21]. associated
[BZR+22, BMJ+21, BMSC21, DYN+20, FMK+21, GKU21, JOM+20,
JLM+20, KaVHD+21, LDR+22, MWZ+20, MCP+22, NKS+21, PPDG+22,
PEN+21, PTW21, PSH+20, SKR+20, SNT+22, SLE+20, SRP+21, WMX+22].
association [Roh22]. Astragalus [LDB+23]. astrocyte [LHC+22].
astrocyte-like [LHC+22]. asymptomatic [KBG+23]. AT-rich [YLC+21].
Atlantic
[ABM+21, AFKK22, AMB+22, BHS+21, BRR+23, BMJ+21, BONB20,
CWB+20b, CVDO+20, CVDB+21, CdPM+21, DHS+20, DPLL+21,
attenuation [FK21, HZFT21, KPC
NKZ
basR
b BacMCP [ZSG+23]. bacteria [AABB23, DWY+20, QCZ+22, SMMM20].
Biology [PVC20]. biomarker [WAF+21]. biosecurity [LDR+22].
biosensor [THW+22]. biotypes [FEMMI+23]. Biotyping [RCG22].
birnavirus [LYC+20]. bivalent [LTW+21]. bivalve [MCA+20].
[AGS+22]. blood [LHC+22]. MMM+21. blooded [SFKB+20]. blue
[RM20]. Boomer [ADA22]. Bosnia [GVB+21]. Bostrychus [DWY+20].
brama [APS23]. branchial [BME+20]. brasiliensis [LXW+21]. Bravo
[CDY+20]. Brunswick [PSH+21]. brush [GWW+23]. brush-clawed
[SBV+21]. Bunodeopsis [DNN+22]. burbot [BMO+20]. Burchell
[ADA22]. MDA22. burden [LNK+21]. butttnerae [SMP+22a].

C6/[KSM+21]. CadC [GWL+21]. cadherin [REB+20]. caecum
[SNT+22]. cage-level [WJPS21]. caged [YK21]. cages [BONB20].
RKC+23. SZZ+23. SSMM+22]. calculi [DBC+22]. California [GMK+21].
VPW+21]. candidates [SGW+22]. cap [CZJ+23]. capacities
capture [MCA+20]. Carangidae [SBV+21]. Carassius
[MLGRF+20]. WZG+20. WWW+21. XKF+22. YJ+23b]. carbohydate
[WWW+21]. carcinoma [SHS+22a]. SAKC+20]. card [PTK+21]. cardiac
[NC+21]. cardinalfish [KSG+23]. cardiomyopathy
carnivorous [SVC+21]. Carnobacterium [RKL+20]. SMP+22b]. Carp
[PSED\textsuperscript{+20}, REB\textsuperscript{+20}, SJK\textsuperscript{+21}]. entry [LDM\textsuperscript{+20}]. environment [CZC\textsuperscript{+22}, HHZ\textsuperscript{+23}]. Environmental [THH\textsuperscript{+21}, Tan23, LDR\textsuperscript{+22}, NLH\textsuperscript{+20}, YPT\textsuperscript{+22}]. environments [Roh22]. EnvZ [DZQ\textsuperscript{+22}]. EnvZ/OmpR [DZQ\textsuperscript{+22}]. enzymatic [NNC\textsuperscript{+23}]. enzyme [LWH\textsuperscript{+21}]. enzyme-linked [LWH\textsuperscript{+21}]. enzymes [FVC\textsuperscript{+21}].

Eoacanthocephala [SMP\textsuperscript{+22a}]. epidemiological [HIK\textsuperscript{+22}, NNC\textsuperscript{+23}]. Epidemiology [OHL\textsuperscript{+20}, SPHM23, RGH\textsuperscript{+22}, UPZ\textsuperscript{+23}]. epidermis [SMMM20]. Epigallocatechin [ZWX\textsuperscript{+22}]. Epigallocatechin-3-gallate [ZWX\textsuperscript{+22}]. Epinephelus [BPA\textsuperscript{+20}, CDY\textsuperscript{+20}, FYH\textsuperscript{+21}, HWZ\textsuperscript{+21}, LCYL20, ZWB\textsuperscript{+23}]. Episode [MCP\textsuperscript{+22}]. Epistyliis [KB21]. epithelial [LPW\textsuperscript{+20}, SMG\textsuperscript{+23}].

Epitheliocystis [DDH\textsuperscript{+22}, QRTD\textsuperscript{+22}]. epitheliotropic [HCC\textsuperscript{+22}]. epitope [DZJ\textsuperscript{+21}, JXJ\textsuperscript{+22}, MPS\textsuperscript{+22}]. epitopes [GYC\textsuperscript{+22}]. Epizootic [SBVC21, SPHM23, WBM21]. erectus [BME\textsuperscript{+20}, EMH\textsuperscript{+22}]. Eriocheir [MCL\textsuperscript{+22}, Din21]. Erysipelothrix [CCP\textsuperscript{+21}]. erythropterus [CRWC22]. esculin [SZH\textsuperscript{+22}]. Essential [ZYL\textsuperscript{+22}, OTG22, POS\textsuperscript{+20}, SMP\textsuperscript{+22a}, TR23, ZHL\textsuperscript{+22}]. established [JVM\textsuperscript{+20}]. Establishing [PRC20]. Establishment [GPL\textsuperscript{+22}, GWF\textsuperscript{+22}, LHC\textsuperscript{+22}, LjY\textsuperscript{+22}, LKZ\textsuperscript{+23}, YDM\textsuperscript{+21}]. Estimates [PNO\textsuperscript{+21}]. Estimating [PSH\textsuperscript{+21}, WJPS21]. estimation [LGP\textsuperscript{+20}, YK21].

Eubothrium [IF\textsuperscript{+21}]. Eudontomyzon [SCV\textsuperscript{+20}]. European [BKM21, BBS\textsuperscript{+20}, DAW\textsuperscript{+22}, DHF\textsuperscript{+22}, LDM\textsuperscript{+20}, PSP\textsuperscript{+22}, SVO\textsuperscript{+22}, SMP\textsuperscript{+20}, ZVB\textsuperscript{+21}, dYdRFF\textsuperscript{+23}]. EUS [SPHM23]. evaluating [JRZ\textsuperscript{+22}]. Evaluation [FEH\textsuperscript{+22}, IAH22, SGW\textsuperscript{+22}, SCX\textsuperscript{+21}, VBL\textsuperscript{+23}, CLS\textsuperscript{+22}, GWF\textsuperscript{+22}, HZFT\textsuperscript{21}, JKM\textsuperscript{+20}, SLPF\textsuperscript{+20}, SFKB\textsuperscript{+20}, FSS\textsuperscript{+21}]. EVE [dYdRFF\textsuperscript{+23}]. EVEX [dYdRFF\textsuperscript{+23}]. Evidence [EBBIAH21, KBG\textsuperscript{+23}, LRAGH21, MLM\textsuperscript{+20}, WZG\textsuperscript{+20}, dRRRPSR\textsuperscript{+21}].

evolution [LG\textsuperscript{+21}]. Examples [RCC\textsuperscript{+21}]. excelsa [BIK\textsuperscript{+21}]. exclusive [RCG22]. existence [EBBIAH21, FEMMI\textsuperscript{+23}]. existing [DBPH21]. exitiosa [BWH\textsuperscript{+20}, BHT\textsuperscript{+20}]. Exogenous [HLH\textsuperscript{+23b}, LG\textsuperscript{+21}].

Exophiala [ACGDO\textsuperscript{+21}]. exophthalmia [HB20]. exoskeletal [DYPN22]. exoskeletal-derived [DYPN22]. Expansion [AHCSC120]. Experimental [BHS\textsuperscript{+21}, CTOH20, IAH21, KBMD21, SVO\textsuperscript{+22}, SFKB\textsuperscript{+20}, BMO\textsuperscript{+20}, DvGJK\textsuperscript{+21}, LWK20, LPL22, PSED\textsuperscript{+20}, PPWC20, QQG\textsuperscript{+21}].

experimentally [DHSK\textsuperscript{+21}, ESI20, KKL\textsuperscript{+22}]. exposed [KBG\textsuperscript{+23}]. Exposure [CZC\textsuperscript{+22}, ASF\textsuperscript{+21}, BHS\textsuperscript{+21}, MBS21, PSED\textsuperscript{+20}, PPWC20, QQG\textsuperscript{+21}].

Expression [FYH\textsuperscript{+21}, YCC\textsuperscript{+21}, ASG\textsuperscript{+22}, AFKK22, BMSC21, FLH\textsuperscript{+21}, FZC\textsuperscript{+23}, JPC\textsuperscript{+21}, JJZ\textsuperscript{+22}, KBR\textsuperscript{+22}, XKF\textsuperscript{+22}, YMC\textsuperscript{+21}, ZWB\textsuperscript{+20}].

expressional [YSW\textsuperscript{+22}]. extracellular [EBBIAH21, TR23]. extract [BIK\textsuperscript{+21}]. extracts [LYX\textsuperscript{+20}]. Extreme [SMC\textsuperscript{+22}]. Eye [DvGJK\textsuperscript{+21}].

eyed [ELB21].

f [LYX\textsuperscript{+20}]. facilitating [LDO\textsuperscript{+21}]. Facilities [NSP20, KSS\textsuperscript{+20}]. factor [BCT\textsuperscript{+20b}, GPC22, SCAH22]. Factors [JLM\textsuperscript{+20}, BRWC23, CCY\textsuperscript{+23},]


Histological [STB+21, FEH+22, SLPP+20, ZWB+23].

Histology [SKAS+22].

Histopathological [DWK+22, DDS+22, ESEI20, SST+22, SHS+22a, SMMM20, GSS+21].

Histopathology [DZR+21, BRCL23, MHP+20, MBJ20]. hly [TSV+22].


hosts [AHSCII20, BONB20, LNK+21, NLPM+21]. housed [ACGDO+21].

HPR [CGA+20, DOW+22]. HPR0 [DGB+22]. HPR0-like [DGB+22].


hybridization [GKTC+21, HPR+22, IKT+23]. hybrids [LPGW+22].


hydroxynaphthol [ZHY+21]. hyperthermal [PE$^{2+}$20]. hypophthalmus

DXD+21, PNO+21, PON+21a, P0N+21b, RPR20.

Ichthyobodo [KKC+22]. Ichthyophonus [SDSNK+22]. Ichthyophthirius

[HHZ+23, JOM+20, PYD+22, QST+21]. ictaluri [LPGW+22, MPS+22, PNO+21, PON+21a, P0N+21b, RCR20, SLA+20, THH+21].

ictaluri-induced [THH+21]. Ictalurid [YLC+21]. Ictalurus

[AGR+22, KNG+22, SLA+20]. ideal [PTBSF22]. idellus [YJL+23a].

identical [BGZW22]. Identification

[CYX+22, CCCC23, DAW+22, EBEIALH20, HCW+20, HWC+21, LTW+21, LFZ+21, WBM21, WKL+22, BFvG+23, BRWC23, DMB+21, GYC+22, LLC+21, NK2, RRK+23, TBB+21, YSW+22, ZDF+23, ZHP+T+20].

identified [KSG+23]. identifies [WLK+22]. identifying [KPC+22].

Idiopathic [BBD+22]. IgZ [FYH+21]. II [DXL+20a, SLE+20, WZW+20].

Illicium [LYX+20]. Illuminating [TBB+21]. Image [Ano22a, CWB+20a, HLH+23a, MHYW22a, S0H+22b, Ano21a, Ano21b, Ano21c]. imaging

[SHS+22a]. imbalance [YGC+20]. imbalance-dependent [YGC+20].

Immersion

[EBX+21, MIR+22, YZM+21, ZDL+21, BMK+20, IAH21, LGJ21]. Immune

[KBG+23, LDW+23, ZHL+21, ZLY+22, BIK+21, CSGB+21, CWB+20b, CZM+22, DZJ+21, HWZ+21, HWG+21, KQW+21, LKP+22, MMPF21, NLL+21, SDH22, UMD22, WMS21, XKF+22, XJZ+22, YYS+22, YJL+23b].

Immune-enhancing [LDW+23]. immunity

[CLC+22, DYPN22, VBG+22, WWW+21, YGZ+22, ZLZ+21].

immunization [ABM+21, GZL+21, ZLZ+21]. immunoassay [LWT+22].

immunochromatographic [WCT+20]. immunochromatography

[HZFT21]. immunogenic [LZWC+20]. immunogenicity
iniae [MCP+22, PTW21, PSH+20, PHB+23, TCS21]. initiative [NSP20].
injected [SDMO+20]. injection [CSGB+21, CSVG+22]. Inmate [CLC+22, DYPN22, LKP+22, VBG+22]. insight [IHK+22, QST+21].
Insights [SGR+20b, NKö+21, LHTW21]. Integrated [LYF+21].
Integration [HWZ+21]. intended [DAW+22]. intensities [MFP21, UD22].
intermediate [APS23]. internal [YK21]. International [SSM+20].
intertidal [BWH+20, MRM21]. intervals [FEH+22]. intestinal [HHJ+21, MMTD+21, RGS+21, REB+20, SSM+20]. intestinalis [APS23].
intraperitoneal [CDY+20, PPWC20]. intraperitoneally [AKR+21].
Introduction [NSP20]. Intussusception [HHJ+21]. invadans [WBM21].
invasion [BBD+22]. invasive [BHEM21]. invertebrate [PEś+20].
investigate [LGJ21]. Investigation [LDM+20, KSD+20, SMMM20].
irido-melanocytoma [SBB21]. Iridoviridae [SVO+22]. iridovirus [GSJ+20, IHH+22, LYX+20]. iron [AHSB+22, BMSC21, LFA20].
iron-limited [AHSB+22]. irradiation [TPSJS20b]. irritans [xCqXIL+21, DXL+20a, TZL+22, XJM+21, ZYB+23, ZMZ+23, ZWB+23].
ISAV [CGA+20, DOW+22, DGB+22]. ISAV-HPR [DOW+22]. Isavirus [TASP+20]. ISBN [RM20]. ISKNV [ZSG+23]. isolate [WLH+20, YIL+23b]. isolated [BCT+20b, BHEM21, BRWC23, CYX+22, KPC+22, LXW+21, LH20, LCD+22, MWH+21, MLL+22, MSS+20, MBR+22, NKK2, NNC+23, NKKZ+20, PCWC20, QCZ+22, RRK+23, SCIAH21, SMD+20, SVO+22, SWC21]. isolates [AMM+22, AHTCD120, BLJ+21, BOMO+20, CRP+21, DCB20, IMAH21, LPGA+21, LPGW+22, MPMB+20, NLPM+21, RCB+22, RCS+22, TIK+22, VIB+21]. Isolation [BMO+20, LCTC20, LLR+20, YCL+21, ZHP+20, BZP+22, DGB+22, HKB+22, MCP+22, WSW+20]. isothermal [CMM+20, HLW+23, KDS+21, PTK+21, PYT+22, YDM+21, ZHY+21, ZLS+21]. Issue [Ano20a, Ano20b, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano21d, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano21o, Ano22a, Ano22b, Ano22c, Ano22d, Ano22e, Ano22f, Ano22g, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano22m, Ano23a, Ano23b, Ano23c, Ano23d, Ano23e, Ano23f]. Italy [MPA+21, MCP+22]. iTRAQ [ZLZ21]. iTRAQ-based [ZLZ21]. IVb [LPW+20, LL21].

Japan [IHK+22]. Japanese [LFZ+21, ZWX+20]. japonica [ZW+20].
japonicus [Cow20], jaw [SVP+21], jellyfish [MBS21], Journal [NSP20].
juniper [BIK+21]. Juniperus [BIK+21], juvenile [BZP+22], JLM+20, MKT+21, NKS+21, OSM+22b, PGH+21, PTW21, PSK+22]. juveniles [PDZ+22].

Kamchatka [SGU+21]. Kariba [BHEM21], kauderni [KSG+23], Kavango [SPHM23]. KCL [LHL520]. KCL-5 [LHL520]. kDa [AHSB+22], SCAH22].
key [JMA+22], PSED+20, QST+21]. KHV [BDK+21], IWH+21]. kidney [JAC+22], KSG+23], LNK+21, LFZ+22, RSPB22, SDH22, SRP+21, SPM+20, ZSG+23]. kill [KKC+23]. killed [MKT+21], ZLY+22]. Kinetics [ASF+21], KBMD21]. kisutch [KKBL21], PPT+20]. knifejaw [LZK+23].
knowledge [MPPF21]. Koi [ZOZ+20], AAZR+20, BAS+22, BDK+21, MBF+23, SGR+20a, STB+21, UPZ+23, WWK+20, BAS+22, MBF+23, SMC+22, SGR+20a, STB+21].
kuruma [Cow20].

L [SVO+22], MPP20a]. L. [BRR+23], CdPM+21, DPLL+21, DHSK+21, FSFS+20, FCH+22b, FEM+20, FK21, FMP+21, FMH+22, FEH+22, KSI+20, KDR+22, LGP+20, LPL22, MIR+22, MBJ20, MLM+20, MFP21, MHH23, OSH+22, PSH+20, SMC+22, SMP+20, SCD+23, TBK+20, WAF+21]. L3 [AFKK22]. label [LWT+22]. label-free [LWT+22]. Laebo [SMM20], TSV+22]. Laboratory
Lake [DDHT+22], TNB+22, DDD+20, DDTG+21, HKB+22, KDS+21, MHH23, SRN20, TSS+23, YYS+22, BSS+20, BHEM21]. lakes [OSM22a], TBMP23, HKB+22]. LAMP [KDS+21], PYT+22]. lamprey [SCV+20]. langsfordii [MHA+20]. laparoscopy [LdlL20]. large
[LHH+22], LWR+20, LLC+21, OSM+22a, SJL+23, SRP+21, dCJBG22]. large-scale [SRP+21]. largemouth [BBG+21], CYX+22, CCY+23, GWF+22, JXJ+22, JZS+23, PPWC20, WYR+23]. Larimichthys [LWR+20, LLC+21, SJL+23]. larvae

lemon [RZTV21]. leniusculus [BBB+22]. Lepeophtheirus [CWB+20+, DHSM+20, DPLL+21, PSH+21, UD22, UMD22, VPW+21].

lepeophtherii [HPR+22]. Lernanthropus [YK+21]. lesion [JSW+21, KMH+21].


loop [CMM+20, HLW+23, KDS+21, PTK+21, PYT+22, ZHY+21, ZLS+21].

loop-mediated [CMM+20, HLW+23, KDS+21, PTK+21, PYT+22, ZHY+21, ZLS+21].


M. [FFB+21]. mackerel [SDSNK+22]. maclovinus [QGG+21, SDM+20].

Macrobrachium [DYNPN22, MW+20, NRK+21, TAK+21].
Macrogrydactylus [MDAO22]. macrophages [CSVG+22]. maculosa
Maine [ZAG+20]. major
[ASA+20, DKL+20a, FLH+21, GPC22, SCX+21, ZDF+23]. makes
[TAK+21]. malachite [QST+21]. MALDI [BFvG+23]. MALDI-TOF
[BFvG+23]. male [SBB21, SLA+20]. males [FdB+22]. Malignant
[BSS+20]. malaromatic [RKL+20]. Man [NRKK21].
managed [SBVC21]. Management [NSP20, KSS+20, PTMC22]. mandarin
[GPL+22, HGW+21]. mandarinfish [ZDF+23]. manose
[GZL+21, JXJ+22]. marble [SVP+21]. marbled [CDY+20, LWK20].
Margaritifera [CVDO+20, CVDB+21]. marine
[DN+22, LEV+20, MBJ+20]. marinum [IKT+23]. maritimum [VIB+21].
Mark [OSM+22b, GVB+21, GSS+21, VDC20]. Marlborough [JSW+21].
marmorata [PEN+21]. marmoratus [LWK20, SVP+21]. masoucida
[WLH+20]. Mass [WX+22, XZ+23]. materials [FSFS+20]. mature
[HIJ+21]. maximus [SDH22, WMS21, ZLY+22]. may [AMB+22, HSG+21].
Maylandia [SHS+22a]. measures [DAW+22, KDHS+23]. mechanism
[LHTW21, NRC+23, SDH22, VBG+22, XKF+22]. mechanisms
[AHSB+22, DQZ+22, KBMD21]. mediated [CMM+20, HLW+23, KDS+21,
PTK+21, PYT+22, ZFJ+22, ZHY+21, ZLS+21]. mediates
[FZ+23, ZBL+23]. mediated [RKC+23]. medicinal [LXW+20].
Medicine [RM20]. mediterraneus [BCT+20a]. Megalobrama [ZH+P+20].
megalocytiviruses [SNY+21]. Mekong [PNO+21, PON+21a, PON+21b].
melanization [BRR+23]. melanocytoma [SBB21]. melanoma [BSS+20].
melanomacrophage [PZP+20]. melastigma [YWZ+21]. membrane
[BCT+20b, EBEIAH20, HLH+23b, LXZ+21, ZWZ+20]. Memphremagog
[BSS+20]. Meningitis [DY+20]. Meningoencephalitis [RZTV21].
Meretrix [LYC+20]. meristic [M RM+21]. Mesanophrus [LLR+20]. mesh
[ZB+23]. Mesomyctozoea [SGR+20a]. meta
[MBN+22, PTMC22, ZGL+20]. meta-analysis
[MBN+22, PTMC22, ZGL+20]. metabolic [SDMO+20]. metabolism
[BMSC21, Din21]. metabolite [LF+L+21]. metabolome [ZMZ+23].
metacercariae [DBM+21, KNG+22]. metagenomic [KSD+20]. Metastatic
[BZQV21, SVP+21]. Method [TKB+21, DMB+21, HPR+22, JSS+23,
LGP+20, NK22, PYT+22, SMP+20, TLZ+22, YDM+21, ZGC+22, ZZF+23].
methods [FMH+22, PTBSF22, SSM+21]. Metschnikowia [MLL+22].
Mexico [dRRRPS+21]. MIC [BLJ+21, GIS+21]. Microbial
[DBPH21, KSI+20, MWZ+20, TPSJS+20a]. Microcotyle [NK22].
microcystin [SST+22]. microdiet [PKF+21]. microfluidic
[HLW+23, ZLS+21]. micropeltes [PHB+23]. Micropterus
[BB21, CYX+22, CCY+23, FCH+22a, JRZ+22, LYZ+22, PPWC20,
WBM21, XJ+22, YGZ+22, ZBL+23]. Microradiography [PDZ+22].
MicroRNA [JPC+21, CLF+22]. microRNAs [JPC+21, LDO+21].
microscopic [SMM+20]. microscopy
Morphology [KB21, FCH+22b]. morphometric [GLS+21]. morphometrics [FK21]. Morphopathological [CVDO+20].
Morphopathology [CVDB+21]. mortalities [PE+20, PEN+21, WXM+22].
mykiss [AMJ+21, AWF22, BIK+21, BZQV21, ELB21, FEMMI+23, GSS+21, HSM+22, HHJ+21, JOM+20, JKM+20, KBG+23, LAH21, LFSB+21, LPL22, ÖTG22, PYD+22, PPT+20, QGG+21, SM21, TBKY20, VIB+21, ŏTTS20].


Nile [AMM+22, BHEM21, DLS+21, DSHK+21, DSDL+22, ESEI20, KDS+21, LCTC20, MPS+22, MKT+21, NLL+21, PPWC20, RCC+21, XFL+21].


PCR-RFLP [NK22]. pearl [SAK20]. Pectinatella [SMD+20].


Photobacterium [ESEI20, PCWC20, WSW+20]. Phylogenetic [MPM+20, GKT+21, HAK+20, TKI+22]. phylogenetics [KB21].


proteins [BGZW22, CdPM+21, FVC+21, HSM+22, NRKK21, QST+21, ZLZ21]. Proteocephalus [IFI22]. proteolytic [FVC+21]. Proteomic [AHSB+22, CdPM+21, LHLs20, QST+21, ZLZ21]. protocol
[CDJ+23, GIS+21]. **provided** [IHK+22]. provides [QST+21]. Prudhoe
[MDA022]. PRV [PPT+20]. PRV-1 [PPT+20]. Pseudocapillaria
[NLH+20, SSM+20, SLK+23]. Pseudocrenilabrus [IAO20]. Pseudoloma
[FdSB+22, MVW+20, SKAS+22]. Pseudomonas
[HWZ+21, JLL+21, LWR+20, S1J+23, VFR+23]. Pseudoparamoeba
[EBA+21]. pseudoshottsi [MHA+20]. Pseudoterranova [AFK+22].
psychrophilum [AHTCD1+20, ABHE+20, AWF+22, BMK+20, BMJ+21,
BMSC+21, HKB+22, HSM+22, KKBL+21, LPL+22, MIR+22, VFR+23].
psychrophilum-associated [BMJ+21]. Pterapogon [KSG+23].
Pterynoplichthys [DDH+22]. public [SBVC+21]. PUFAs [HLH+23b].
pufferfish [FLH+21, KQW+21]. pulse [RCS+22]. pulse-field [RCS+22].
punctatus [AGR+22, KNG+22, LZK+23, SLA+20]. Puno [FEMMI+23].
Puntigrus [CCP+21]. purposes [PTBS+22]. putative
[GTKU+21, MLGRF+20]. putatively [RGS+22]. PVN02 [DXD+21]. pyloric
[ZDF+23]. pyroptosis [ZBL+23].

qPCR [AMJ+21, DMH+21, GWF+22, JAC+22, LGP+20, RGS+22, SLK+23,
SKR+20, SLE+20, SMP+22b]. QTL [JOM+20]. quality [PTMC+22].
Quantification [BMSC+21, JSZ+23, OKL+22, TCS+21]. Quantifying
[JMA+22, LYC+20]. Quantitative
[JOM+20, NLR+21, TZL+22, CQG+21, HHZ+23, SMY+22, YTS+22, ZLZ+21].
Quebec [BSS+20]. Quinoline [LYZ+22]. quinones [VBL+23]. quorum
[LRGAH+21].

rA7 [LFL+21]. Radiological [KDR+22]. Rafinesque [LL+21]. Rahnella
[LHLS+20]. Rainbow
[öTT+20, AMJ+21, AKR+21, AWF+22, BIK+21, BZQ+21, ELB+21,
FEMMI+23, GVB+21, HSM+22, HHJ+21, JOM+20, JKM+20, KSG+23,
LSFB+21, LPW+20, LPL+22, OSM+22b, ÖTG+22, PYD+22, PPT+20,
QG+21, SM21, SMG+23, TBKY+20, VIB+21, VFR+23, YZM+21].
ranavirus [GWF+22, JSZ+23, SVO+22, ZDF+23]. range
[GLS+21, NNC+23, TBMP+23]. Rapid [BHT+20, CGA+20, DDTG+21,
FC+22a, LHH+22, ZHY+21, HZFT+21, PTK+21, PYT+22, PDZ+22,
QWL+21, SSMC+22, TBB+21, WCT+20, YLW+21]. rare [TBB+21]. RAS
[OSM+22b]. rates [AKR+21]. ray [DY+20, EGRD+22]. reaction [SMY+22].
Reactor [VRC+22]. Real
[SKR+20, GWF+22, HHZ+23, MSB+21, MMW+22, QWL+21, TCS+21].
Real-time
[SKR+20, GWF+22, HHZ+23, MSB+21, MMW+22, QWL+21, TCS+21].
reared [DŽR+21, FK+21, JLM+20, MPH+20, MCP+22, QRTD+22, SAB+22].
rearing [CLH+21, FCH+22b, VSODB+21, YPT+22]. reasons [YCS+21].
reassortant [KPC+22]. recA [OKL+22]. receptor [YGC+20]. receptors
[CLH+21]. recirculating [BTN+21]. recirculation
[QRTD+22, TPSJS+20a, TPSJS+20b]. recognition [WWW+21].

[HSH+20, TAK+21]. swab [FSFS+20]. SWCNTs [GZL+21].
SWCNTs-based [GZL+21]. Sweden [PAH+22]. swimming [LLR+20].
switching [CGA+20]. Switzerland [DBDSP+20]. SPKS+20.
sympatric [LNK+21]. symptom [SMC+22]. symptomatic [KBG+23]. syndrome
TPJS20a. TPSJS20b. TASP+20]. systematic
[MBN+22. PTMC22. ZGL+20]. systematization [DBPH+21]. Systemic
[PS+21]. TSS+23]. systems

T [YGC+20]. T-cell [YGC+20]. T. [NLR+21]. T3SS [LTW+21]. T6SSs
KQW+21]. tank [JLM+20]. tank-reared [JLM+20]. tanks [PNO+21]. Tapeworms
[SKO+21]. TaqMan [YTS+22]. tarda [AGR+22. RCB+22. WCT+23]. target
Tasmanian [FCH+22]. Taylor [RM+20]. technique [PDZ+22]. tegumental
[KB+21]. teleost [KH+20]. Tenminck [CLC+22. SJK+21. THH+21]. Temperature
template [CGA+20]. temporal [JQ+20. LNK+21]. Tenacibaculosis
[SNT+22. AHCS+20. IA+21]. Tenacibaculum
terminal [WWW+21]. terminalis [ZH+20]. test
[HZ+21. PNO+21. WCT+20]. tested [PON+21]. Testicular
[NCA+20. MPP+20]. testing [CM+22. GIS+21]. tests
[BLI+21. GPC+22. IAH+22]. testudineous [DDH+22]. Tetracapsuloides
[OS+22. SSM+21. WBB+21]. tetrazona [CCP+21]. Thailand
DWY+20. KKB+21. NNC+23. RBM+22. SPM+20]. them [TAK+21].
therapeutic [MZ+22]. thou [BON+20]. threaten [ZOZ+20]. three
throughout [MWZ+20]. throughout [LXW+20. WKL+22]. Thunnus
[WBB+20]. Thyme [TR+23]. thynnus [WBB+20]. thyrsites [MMW+22].
tiamulin [IAH+22]. tiger [CCP+21. FMK+21]. Tilapia


IHK+22, LL21, LLJ+21, LYF+21, NRK21, MBG+23, TBK+22, TBKY20, TASP+20, UCB+21, WXM+22, WKK+20, ZHL+22, ZLS+21, ZMZ+22. 

[DWY+20, GPL+22, LKZ+23, MWY+22, MHYW22b, PS23]. visceral 
[LWR+20]. viscosa [CBW+20b]. visual 
[FCH+22a, KDS+21, PTK+21, WML+21, ZHY+21]. visualization 
[PSV+21]. visualized [YDM+21]. vitro 
[ASA+20, CMLK+22, FSS+21, FDSB+22, IAH22, JKM+20, KSM+21, LAH21, LHC+22, LYZ+22, TR23, ZHL+22]. vivo [LYZ+22, SJL+23]. volumes 
[MMW+22]. VP2 [TIK+22]. vulnificus [BFvG+23, ZLY+22].

**W1** [LPW+20, SMG+23]. Walbaum 
[AMJ+21, AF22, BZQV21, GSS+21, HHJ+21, LHH+22, PYD+22]. wall 
[HCW+20, NRC+23]. warm [SFKB+20]. warm-blooded [SFKB+20]. was 
[AOT22, DDHT+22]. Wastes [oTTS20]. Water 
[PSED+20, TPS20b, BNT+21, HHZ+23, IRW+20, PTMC22, SMD+20, SPHM23, SJK+21, SNT+22, UCB+21, VSODB22, WBB+21, WPT+22]. waters 
[MFP21, RSPB22]. weather [ZYZ+20]. Weber [IAO20]. weight 
[MFP21, PON+21b]. West [WBM21]. western 
[JLM+20, WCT+23, VVK+22]. Westphalian [DHF+22]. Where [BONB20]. which 
[HCW+20, HWC+21]. whirling [KRS+20]. white 
[BTN+21, CMLK+22, FFB+21, GMK+21, HCC+22, HLpSC22, IRW+20, LXW+21, PSH+20, RRK+23, SZH+22, SCX+21, SAB+22, TPS20a, TPS20b, TAK+21, WSW+20, ZWX+22, ZLZ21]. whitespotted [SGU+21]. Whole 
[HAK+20, IHK+22, CCY+23]. Whole-genome 
[HAK+20, IHK+22, CCY+23]. wide
[CLH+21, DDDJ+20, GLS+21, NNC+23, RCB+22, RKL+20, Roh22]. wild
[BPA+20, FdSB+22, HKB+22, JDA+20, KRS+20, LNK+21, MPP20a,
MPA+21, PAH+22, PVC20, QGG+21, SPKS+20, VDC20, ZAG+20].
**wild-caught** [KRS+20, VDC20]. **wild-type** [FdSB+22]. Wisconsin
[SEL+20]. **withdrawal** [RKC+23]. within [DDHT+22, PSH+21]. without
[MSF20]. **working** [FAG+22]. wound [CGFC21]. wrasse
[PDM+21, PGH+21]. WSSV [CMN+20, TAK+21, ZLZ21]. WSSV-infected
[CMN+20]. **wuhanensis** [KB21].

x [DWK+22]. x-cell [DWK+22]. XIIBs [XQZ+22].

**Yamaguti** [CRWC22]. year [DDDJ+20]. yeast [RGS+21]. yellow
[LWR+20, LLC+21, SJJ+23]. yellowfin [LjY+22]. **Yersinia**
[AABB23, BLJ+21, BIK+21, FEMMI+23, RCG22, RGS+22, SM21,
VLSM+20, Wel20, YZM+21]. young [FMP+21].

**Zealand** [JSW+21]. zebra [SHS+22a]. Zebrafish [AHBE+20, MSB+21, NSP20].
KMH+21, MVW+20, NLH+20, PKF+21, SM20, SKAS+22, SLK+23, SM+20.
zoeae [MWZ+20]. zoonotic [BFvG+23]. zooplankton [TBB+21].

References

**Amin:2023:SAP**

[AABB23] Muhamad Amin, Mark B. Adams, Christopher M. Burke,
and Christopher J. S. Bolch. Screening and activity of potential gastrointestinal probiotic lactic acid bacteria against
**Yersinia ruckeri** O1b. *Journal of Fish Diseases*, 46(4):369–
379, April 2023. CODEN JFIDDI. ISSN 0140-7775 (print),
1365-2761 (electronic).

**Amtmann:2020:VEV**

[AAZR+20] Anette Amtmann, Ibrahim Ahmed, Petra Zahner-Rimmel,
Adam Metzko, Lisa Katharina Jordan, Martin Oberle, Helmut Wedekind, Jürgen Christian, Sven Michael Bergmann,
and Anna Maria Becker. Virucidal effects of various agents —
including protease — against koi herpesvirus and viral
haemorrhagic septicaemia virus. *Journal of Fish Diseases*,
43(2):185–195, February 2020. CODEN JFIDDI. ISSN 0140-
7775 (print), 1365-2761 (electronic).
REFERENCES

Aksnes:2021:GMA


Armwood:2021:RSP


Austin:2022:API


Alt:2022:GEA


Archer:2023:CSL

Abigail R. Armwood, Matt J. Griffin, Bradley M. Richardson, David J. Wise, Cynthia Ware, and Alvin C. Camus. Pathology and virulence of Edwardsiella tarda, Edwardsiella piscicida, and Edwardsiella anguillarum in channel (Ictalurus punctatus), blue (Ictalurus furcatus), and channel × blue hybrid catfish. *Journal of Fish Diseases*, 45(11):1683–1698, November 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


Ruben Avendaño-Herrera, Diana Tapia-Cammas, Eric Duchaud, and Rute Irgang. Serological diversity in *Flavobacterium psychrophilum*: a critical update using isolates retrieved from Chilean salmon farms. *Journal of Fish Dis-
Alencar:2021:MNV


Abdel-Latif:2020:NCC


Aunsmo:2022:TAS


Alarcon:2021:ISA


Ali:2022:GCA

REFERENCES

of Fish Diseases, 45(12):1857–1871, December 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


REFERENCES

Anonymous:2020:Ii


Anonymous:2020:Ij


Anonymous:2020:Ik


Anonymous:2020:Il


Anonymous:2021:Ci


Anonymous:2021:Cii


Anonymous:2021:Ciii


Anonymous:2021:Ii

Anonymous:2021:IIb


Anonymous:2021:IIc


Anonymous:2021:IID


Anonymous:2021:IIe


Anonymous:2021:IIf


Anonymous:2021:IIg


Anonymous:2021:IIh


Anonymous:2021:IIi

REFERENCES


Anonymous:2022:Ile


Anonymous:2022:Ilf


Anonymous:2022:IIg


Anonymous:2022:IIh


Anonymous:2022:IIi


Anonymous:2022:IIj


Anonymous:2022:IIk


Anonymous:2022:IIl

REFERENCES

Anonymous:2023:IIa


Anonymous:2023:IIb


Anonymous:2023:IIc


Anonymous:2023:IID


Anonymous:2023:IIe


Anonymous:2023:IIf


Altinok:2022:NAR

[AOT22] Ilhan Altinok, Rafet Cagri Ozturk, and Mustafa Ture. NGS analysis revealed that *Lactococcus garvieae* Lg-Per was *Lactococcus petauri* in Türkiye. *Journal of Fish Diseases*, 45 (12):1839–1843, December 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Antinero:2023:RSD

[APK+23] Ariel Antinero, Alice Printzi, Chara Kourkouta, Stefanos Fragkoulis, David Mazurais, Jose Luis Zambonino-Infante, and George Koumoundouros. The role of starter diets in

**Adamek:2023:USI**


**Ahmed:2020:VAA**


**Ashfaq:2021:KCL**


**Abdul:2022:DCF**

Avila:2022:DRF


Badhusha:2022:FRO


Bekavac:2022:DII


Branco:2021:FDM


Budai:2020:OMG

REFERENCES

Box:2020:PMI


Bunpa:2020:OMP


Bergmann:2021:SRK


Boonstra:2023:FAI


Bao:2022:CTS

[BGZW22] Shuaiming Bao, Shuangshuang Gao, Mengmeng Zhang, and Yongjie Wang. Characterization of toxicity and structure of PirAB<sup>nc</sup>-like proteins that are structurally almost identical to shrimp AHPND-causing PirAB toxin. *Journal of Fish
REFERENCES

Diseases, 45(2):315–326, February 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


Baron:2021:ABC


Brown:2020:FSH


Bruce:2021:AFP


Bruce:2020:CPL


Bruce:2020:IEC

REFERENCES

2020. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


Brimsholm:2023:DMR


Byadgi:2023:CGE


Blazer:2020:MMB


Bauer:2021:IRW


Buss:2020:IDB

Jessica Januma Buss, Kathryn Helen Wiltshire, James Owen Harris, Jason Elliot Tanner, and Marty Robert Deveney. Infection dynamics of *Bonamia exitiosa* on intertidal *Ostrea angasi* farms. *Journal of Fish Diseases*, 43(3):359–369,
Brocca:2022:SGA

Brocca:2021:MMN

Cheng:2023:IGC

Chang:2021:PEP

Cao:2023:PVF
Shoulin Cao, Jiaojiao Chang, Xiaozhen Yue, Jinnian Li, and Xuelan Liu. Potential virulence factors of *Nocardia seri-olae* AHLQ20-01 based on whole-genome analysis and its pathogenicity to largemouth bass (*Micropterus salmoides*).
Cherif:2023:ASR


Costa:2021:PCS


Chieng:2020:MRB


Ceballos-Francisco:2021:USS


Cardenas:2020:RSM

Matías Cárdenas, Claudia Galleguillos, Karina Acevedo, Catarina Ananias, Javiera Alarcón, Sofía Michelson, Jorge Toledo, Margarita Montoya, Claudio Meneses, Eduardo Castro-Nallar, Yesseny Vásquez-Martínez, and Marcelo


REFERENCES


Campos-Sanchez:2022:IMS


Charles:2020:EIM


Castrillo:2021:MGR


Castrillo:2020:ESM


Carvalho:2020:CI

REFERENCES

Carvalho:2020:ICI


Cai:2022:ICN


Chen:2022:EZC


Cheng:2023:CFC


Chen:2022:CEI

Corriero:2021:AOF


dAraujo:2023:ECS


Danne:2022:IVI


Dias:2022:UCL


Delalay:2020:UDA

REFERENCES


Debnath:2022:TLV


Delamare-Deboutteville:2021:RGT


Ditlecadet:2022:FRS


Danne:2022:VIE


Dinh-Hung:2021:DLT


Dalvin:2020:ETA


Ding:2021:LMD


Dien:2021:ONT


Duflot:2021:OTD


Delphino:2021:CEL

Marina K. V. C. Delphino, Fernando O. Mardones, Joaquin Neumann Heise, Alicia Gallardo, Daniel Jimenez,

Dang:2022:ADF


Dean:2022:DIH


Delfosse:2021:EHC


delRio-Rodriguez:2021:FEF

Dong:2022:UPP


Duan:2021:EFE


Denk:2020:SNC


Dalum:2022:HDE


Ding:2020:MCT


REFERENCES

713, June 2020. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

**Du:2022:CRN**


**Duan:2021:PMS**

Hui-Xin Duan, Zhao Zhao, Ying-Jie Jin, Zi-Long Wang, Jie-Fang Deng, Jie He, and Bin Zhu. PEG-modified subunit vaccine encoding dominant epitope to enhance immune response against spring viraemia of carp virus. *Journal of Fish Diseases*, 44(10):1587–1594, October 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

**Du:2022:RMT**

Ziyan Du, Mengmeng Zhang, Yingxue Qin, Lingmin Zhao, Lixing Huang, Xiaojin Xu, and Qingpi Yan. The role and mechanisms of the two-component system EnvZ/OmpR on the intracellular survival of *Aeromonas hydrophila*. *Journal of Fish Diseases*, 45(11):1609–1621, November 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

**Dykova:2021:HLR**


**English:2021:ICN**

Chloe J. English, Natasha A. Botwright, Mark B. Adams, Andrew C. Barnes, James W. Wynne, Paula C. Lima, and Mathew T. Cook. Immersion challenge of naive Atlantic salmon with cultured *Nolandella* sp. and *Pseudoparamoeba* sp. did not increase the severity of *Neoparamoeba perurans*-induced amoebic gill disease (AGD). *Journal of Fish Dis-
References


El-Son:2020:MHC


Felten:2022:IVI

Martin Felten, Mikolaj Adamek, Marina Gebert, Sebastian Rakers, and Dieter Steinhagen. The influence of viral infection on cell line characteristics: Lessons learned from working with new cell lines from common carp. *Journal of Fish Diseases*, 45(11):1767–1780, November 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Feng:2022:RVD


Foddai:2022:CEE


Fernandes:2022:RML

Bianca H. Ventura Fernandes, Caroline Caetano da Silva, Debora Bissegato, Michael L. Kent, and Luciani R. Carvalho. Rederivation of a mutant line (*prop 1*) of zebrafish *Danio rerio* infected with *Pseudoloma neurophilia* using in vitro fertilization with eggs from pathogen-free wild-type (AB) females and sperm from *prop 1* males. *Journal of...*
**REFERENCES**


[Furnesvik:2022:EHP]


[Fragkoulis:2020:CFA]


[Fernandez-Espinel:2023:CET]


[Farmer:2021:DSW]


REFERENCES


(FYH+21) Yao-Wu Fu, Zhan-Juan Yao, Meng-Han He, Zuo-Pei Wang, Wei-Feng Chen, Miao Cui, and Qi-Zhong Zhang. Expression analysis and tissue localization of IgZ in the grouper


[GLS+21] María Teresa González, Natalia Verónica Leiva, Fabiola Sepúlveda, Gladys Asencio, and Juan Antonio Baeza. Genetic homogeneity coupled with morphometric variability...

**Groff:2021:PDV**


**Gaasnes:2021:MPD**


**Girard:2022:IVF**


**Gong:2022:ECS**

Jinpeng Gong, Xiaoyi Pan, Lingyun Lin, Yue Zhu, Jiayun Yao, Congxu Wang, Wenlin Yin, Lei Huang, Yihan Liu, Fan Chen, and Jinyu Shen. Establishment and characterization of a spinal cord tissue cell line from mandarin fish, *Siniperca chuatsi* and its susceptibility to several viruses. *Journal of Fish Diseases*, 45(10):1419–1427, October 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).
Gardenia:2020:DPC


Galeotti:2021:RMSb


Galeotti:2021:RMSa


Guo:2022:EEQ


Gu:2021:VPC


REFERENCES

**Henderson:2020:TIE**


**Heni:2022:CEL**


**Hou:2020:ICW**


**Hoitsy:2021:ICI**


**Hu:2023:CDD**

REFERENCES

[HKB+22] Courtney E. Harrison, Christopher K. Knupp, Travis O. Brenden, Mark P. Ebener, and Thomas P. Loch. First isolation of *Flavobacterium psychrophilum* from wild adult Great Lakes lake whitefish (*Coregonus clupeaformis*). *Journal of Fish Diseases*, 45(7):1023–1032, July 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


REFERENCES

Herrero:2022:NDB


Huang:2021:NDL


Hershberger:2020:PHC

[HSH\textsuperscript{+20}] Paul K. Hershberger, Matthew E. T. Stinson, Betsy Hall, Ashley H. MacKenzie, Jacob L. Gregg, William Richards, and James R. Winton. Pacific herring *Clupea pallasii* are not susceptible to vibriosis from *Vibrio anguillarum* or *V. ordalii* under laboratory conditions. *Journal of Fish Diseases*, 43(12):1607–1609, December 2020. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Huang:2022:NCP


Hoare:2022:SMP


Le He, Luying Wang, Lingmin Zhao, Zhixia Zhuang, Xiaoru Wang, Huabin Huang, Qi Fu, Lixing Huang, Yingxue Qin, Pan Wang, and Qingpi Yan. Integration of RNA-seq and RNAi reveals the contribution of *znuA* gene to the pathogenicity of *Pseudomonas plecoglossicida* and to the immune response of *Epinephelus coioides*. *Journal of Fish Diseases*, 44(11):1831–1841, November 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


Rute Irgang and Ruben Avendaño-Herrera. Experimental tenacibaculosis infection in adult conger eel (*Genypterus chilensis*, Guichenot 1948) by immersion challenge with *Tenacibaculum dicentrarchi*. *Journal of Fish Diseases*, 44
REFERENCES


Irgang:2022:EVS


Igeh:2020:PEC


Izvekov:2021:LPI


Izvekova:2022:SFG


Ishihara:2022:WGA


REFERENCES


Jia:2021:MEP


Jensen:2020:STV


Jiang:2022:SEH


Johnston:2021:CDS


Jiang:2023:DDD

REFERENCES

Jyotsna:2020:SBN


Janik:2022:DSM


Jia:2022:AES


Korkea-aho:2021:GDP


Ksepka:2021:MPP

Khalil:2023:IPR

[KBG+23] Sarker Mohammed Ibrahim Khalil, Chiara Bulfon, Marco Galeotti, Pier Luigi Acutis, Ilhan Altinok, Charalampos Kotzamanidis, Ana Isabel Vela, Lucio Fariano, Marino Prearo, Silvia Colussi, and Donatella Volpatti. Immune profiling of rainbow trout (Oncorhynchus mykiss) exposed to Lactococcus garvieae: Evidence in asymptomatic versus symptomatic or vaccinated fish. *Journal of Fish Diseases*, 46 (7):731–741, July 2023. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Kutyrev:2021:ESU


Klykken:2022:GEP


Kayansamruaj:2023:GDP


Klykken:2022:RDN

REFERENCES

1883–1888, December 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Kampeera:2021:RTL


Kotze:2020:MHT


Knupp:2021:HSP


Katharios:2023:FKA


Kverme:2022:ATL

References

91


**Kent:2021:IIC**


**Kim:2022:MMC**


**Kaplan:2022:FDB**


**Kong:2021:FCT**

[KQW+21] Linghe Kong, Kun Qian, Siwei Wu, Bingxi Li, Zheng Guo, Xiaoxue Yin, Yu Huang, Jianmin Ye, Xiao Tu, and Shengli Fu. Functional characterization of TNF-α in pufferfish (*Takifugu obscurus*) in immune response and apoptosis against *Aeromonas hydrophila*. *Journal of Fish Diseases*, 44(9):


REFERENCES

Kumar:2021:VPI


Kent:2020:RDH


Levipan:2021:AIS

[Héctor A. Levipan and Ruben Avendaño-Herrera. Assessing the impacts of skin mucus from *Salmo salar* and *Oncorhynchus mykiss* on the growth and in vitro infectivity of the fish pathogen *Piscirickettsia salmonis*. *Journal of Fish Diseases*, 44(2):181–190, February 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).]

Lee:2022:CIN

[Chi-Fen Lee, Yen-Chen Chang, Hue-Ying Chiou, and Hui-Wen Chang. Concurrent infection of a novel genotype of hepatopancreatic parvovirus and *Enterocytozoon hepatopenaei* in *Penaeus vannamei* in Taiwan. *Journal of Fish Diseases*, 45(8):1201–1210, August 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).]

Legario:2020:IMC

REFERENCES

Lu:2020:MEV  

Louboutin:2022:CNP  

Lloyd:2020:ULN  

Lampou:2020:IRE  

Liang:2021:PRM  


Xiaohao Li, Kunpeng Fan, Yafang Liu, Ying Liu, and Pengfei Liu. Administration of a recombinant ALDH7A1 (rA7) indicates potential regulation of the metabolite and immunology pathways in Atlantic salmon infected with


Jing Liang, Xiucai Hu, Aijun Lü, and Jingfeng Sun. First report on the characterization of pathogenic *Rahnella aquatilis*


[LLC+21] Kexin Li, Wanru Li, Xiaojuan Chen, Tian Luo, Yinnan Mu, and Xinhua Chen. Molecular and functional identification of

Lu:2021:NPN


Liu:2020:ICV


Lauringson:2021:CCD


Lopez-Porras:2021:GVE

Lopez-Porras:2022:CPE


Liu:2022:AMR


Liu:2020:VI


Levipan:2021:PSD


Li:2021:IAT

REFERENCES

Li:2021:DDA


Lee:2020:EAS


Li:2020:OVW


Liu:2022:DTV


Liu:2020:ABH

REFERENCES


Huan Liu, Miao Xiao, Jing Zuo, Xiaoxian He, Ping Lu, Yingyu Li, Yanni Zhao, and Fei Xia. Vanillic acid combats *Vibrio alginolyticus* by cell membrane damage and biofilm reduction. *Journal of Fish Diseases*, 44(11):1799–1809, November 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


Yang Luo, Lu Yu, Zizhao Feng, Qikang Chen, Liqun Lu, Qiya Zhang, and Dan Xu. Integrated analysis of viral miRNAs, mRNA and protein in the caudal fin cells of *C. auratus gibelio* with cyprinid herpesvirus 2 infection. *Journal of Fish Diseases*, 44(4):441–460, April 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

REFERENCES


Diseases, 46(7):723–730, July 2023. CODEN JFIDD. ISSN 0140-7775 (print), 1365-2761 (electronic).

Marty:2020:CSS


Michail:2022:HRV


Mursalim:2022:DAS


Mitchell:2021:MSP


Montory:2020:FFB

Jaime A. Montory, Oscar R. Chaparro, Andres Averbuj, Luis P. Salas-Yanquin, Joseline A. Büchner-Miranda, Paulina Gebauer, Juan P. Cumillaf, and Edgardo Cruces. The filter-feeding bivalve Mytilus chilensis capture pelagic

Mugetti:2022:EMA


Maduenyane:2022:LSE


Mo:2021:IIA


Misk:2022:RSP


Matsumoto:2020:ACF

[Megumi Matsumoto, Kazuma Hayashi, Kyosuke Araki, Teruyuki Nakanishi, and Atsushi Yamamoto. Availability

**Mo:2023:OSG**


**Mahasri:2020:PIH**


**Mercer:2022:CI**


**Mercer:2022:NVD**


**Macchia:2022:ICM**

REFERENCES

CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


REFERENCES


[MSB+21] Moonika Haahr Marana, Jacob Günther Schmidt, Stéphane Biacchesi, Niels Lorenzen, and Louise von Gersdorff Jørgensen. Zebrafish (*Danio rerio*) larvae as a model for real-time studies of propagating VHS virus infection, tissue tropism and


[Maekawa:2020:GCS] Shun Maekawa, Yi-Ting Wang, Terutoyo Yoshida, Pei-Chi Wang, and Shih-Chu Chen. Group C *Streptococcus dysgalac-


Noguera:2021:UIR


Neal:2021:LIR

Travis Neal, Michael L. Kent, Justin Sanders, Carl B. Schreck, and James T. Peterson. Laboratory infection rates and associated mortality of juvenile Chinook salmon (*Oncorhynchus tshawytscha*) from parasitic copepod (*Salmincola californiensis*). *Journal of Fish Diseases*, 44(9):1423–1434, September 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Niu:2020:PGC


Norris:2020:DPN


Niu:2021:CFA

Jinzhong Niu, Guoling Luo, Xinchao Liu, Yu Huang, Jufen Tang, Bei Wang, Yishan Lu, Jia Cai, and Jichang Jian.


REFERENCES

2023. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


REFERENCES


REFERENCES


[PHS⁺20] Iyapa Palang, Ikuo Hirono, Saengchan Senapin, Wanna Sirimanapong, Boonsirm Withyachumnarkul, and Rapeepun


[PNØ+21a] Khoi Dinh Pham, Jørgen Ødegård, Sang Van Nguyen, Hans Magnus Gjøen, and Gunnar Klemetsdal. Genetic anal-

**Pham:2021:GCB**


**Pereira:2020:LCC**


**Palikova:2022:CEV**


**Purcell:2020:CPO**

Maureen K. Purcell, Rachel L. Powers, Torunn Taksdal, Doug McKenney, Carla M. Conway, Diane G. Elliott, Mark Polinski, Kyle Garver, and James Winton. Consequences of Piscine orthoreovirus genotype 1 (PRV-1) infections in Chinook salmon (Oncorhynchus tshawytscha), Coho salmon (O. kisutch) and rainbow trout (O. mykiss). *Journal of Fish
REFERENCES

Diseases, 43(7):719–728, July 2020. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Poudyal:2020:CPF

Sayuj Poudyal, Theeraporn Pulpipat, Pei-Chi Wang, and Shih-Chu Chen. Comparison of the pathogenicity of Francisella orientalis in Nile tilapia (Oreochromis niloticus), Asian seabass (Lates calcarifer) and largemouth bass (Micropterus salmoides) through experimental intraperitoneal infection. Journal of Fish Diseases, 43(9):1097–1106, September 2020. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Phuoc:2020:EBI


Poppe:2021:NMP


Prasartset:2023:SDT


Picard-Sanchez:2020:WTT

REFERENCES


REFERENCES

Parchemin:2022:ASD


Pepey:2021:AFE


Paredes-Trujillo:2022:SRM


Piamsomboon:2021:EAS


Polinski:2020:POB

Pekmezci:2022:GDI


Phusantisampan:2022:SRD


Passantino:2020:IMC


Que:2022:PAR


Quintanilla:2021:HTP

Juan Carlos Quintanilla, Margarita P. González, Juan Pablo García, Paola Olmos, and Sergio Contreras-Lynch. Horizontal transmission of *Piscirickettsia salmonis* from the
wild sub-Antarctic notothenioid fish *Eleginops maclovinus* to rainbow trout (*Oncorhynchus mykiss*) under experimental conditions. *Journal of Fish Diseases*, 44(7):993–1004, July 2021. CODEN JFIDD. ISSN 0140-7775 (print), 1365-2761 (electronic).

**QRTD+22**

**Qu:2021:CPA**
Shenye Qu, Chenguang Song, Xiaoping Tan, Gaoxue Wang, and Fei Ling. Comparative proteomic analysis provides insight into the key proteins as potential targets underlying the effect of malachite green against *Ichthyophthirius multifiliis*. *Journal of Fish Diseases*, 44(7):881–892, July 2021. CODEN JFIDD. ISSN 0140-7775 (print), 1365-2761 (electronic).

**Qu:2021:DRT**

**Raharjo:2022:DVF**
REFERENCES

Journal of Fish Diseases, 45(9):1355–1371, September 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


Saima Rehman, Adnan H. Gora, Prabhugouda Siriyapagounder, Sylvia Brugman, Jorge M. O. Fernandes, Jorge

Andreas Riborg, Snorre Gulla, David Strand, Jannieke Wiik-Nielsen, Anita Rønneseth, Timothy J. Welch, Bjørn Spilsberg, and Duncan J. Colquhoun. qPCR screening for *Yersinia ruckeri* clonal complex 1 against a background of putatively avirulent strains in Norwegian aquaculture. *Journal of Fish Diseases*, 45(8):1211–1224, August 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


REFERENCES


REFERENCES


REFERENCES


Standish:2020:VSC


Svoboda:2020:EEP


Sirri:2020:DSM


Stilwell:2020:IMC


Sergeenko:2021:CHP

Natalia V. Sergeenko, Tatyana V. Gavruseva, Elena A. Ustimenko, Elena V. Bochkova, and Tatyana V. Ryazanova.
REFERENCES


[SHU+23] Feng-Ling Shu, Li-Yun Jin, Hao Liu, Zhen Tao, Fei Yin, Jia-Song Xie, and Su-Ming Zhou. The galU gene is required for in
vivo survival of *Pseudomonas plecoglossicida* in large yellow

**Schuster:2022:PID**

[SKAS+22] Corbin J. Schuster, Taylor G. Kreul, Colleen E. Al-Samarrie, James T. Peterson, Justin L. Sanders, and Michael L. Kent. Progression of infection and detection of *Pseudoloma neu-rophilia* in zebrafish *Danio rerio* Hamilton by PCR and histo-

**Scholz:2021:TPF**

[SKO21] Tomáš Scholz, Roman Kuchta, and Mikuláš Oros. Tape-
worms as pathogens of fish: a review. *Journal of Fish Dis-

**Siah:2020:RTR**


**Simora:2020:CEP**


**Standish:2020:VSI**

[SLE+20] Isaac Standish, Eric Leis, Sara Erickson, Rebekah McCann, Corey Puzach, Ryan Katona, Ellen Lark, Jennifer Bai-

**Schuster:2023:EDP**


**Sara:2020:HEP**


**Sibinga:2021:TSD**


**Sellyei:2022:EPS**


**Salmonova:2020:PPC**

*SMD*+20* Hana Šubrtová Salmonová, Matilde Marchi, Ivo Doskočil, Tereza Kodešová, and Eva Vlková. Pathogenic profile and
REFERENCES


**Simon:2023:DRR**


**Srivastava:2020:AEC**


**Stejskal:2020:FDG**


**Serra:2022:OEE**

Standish:2022:DDQ


Shahin:2022:DQP


Spilsberg:2022:TNA


Sakseepipad:2021:DSN


Diseases, 44(8):1201–1214, August 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


[SSM+21] Veronika Seidlova, Eva Syrova, Hana Minarova, Jan Zukal, Vojtech Balaz, Monika Nemcova, Ivana Papezikova, Jiri Pikula, Heike Schmidt-Posthaus, Jan Mares, and Miroslava

**Sukonta:2022:CBP**


**Shartau:2022:AME**


**Sirri:2021:HIC**


**Sellyei:2021:MIF**


**Scholz:2022:EIT**

Felix Scholz, Niccolò Vendramin, Niels Jørgen Olesen, Argelia Cuenca, Tine Moesgaard Iburg, Luca Mirimin, Ian
REFERENCES


Sirri:2021:MOO


Sudpraseart:2021:PGP


Shan:2022:AAE


Samsing:2023:CTS

REFERENCES


REFERENCES

Tian:2022:FSG

Tamer:2022:DVS

Trosse:2021:MCP

Tran:2022:TLV
Triet Hanh Tran, Vy Thuy Hoang Nguyen, Hieu Chi Nguyen Bui, Yen Binh Thi Tran, Huong Thanh Thi Tran, Thao Thu Thi Le, Huong Thanh Thi Vu, and Thao Phuong Huynh Ngo. Tilapia Lake Virus (TiLV) from Vietnam is genetically distantly related to TiLV strains from other countries. *Journal of Fish Diseases*, 45(9):1389–1401, September 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Teitge:2020:EDP
Felix Teitge, Christina Peppler, Dieter Steinhagen, and Verena Jung-Schroers. Effect of disinfection with peracetic acid on the microbial community of a seawater aquaculture recirculation system for Pacific white shrimp (*Litopenaeus vannamei*). *Journal of Fish Diseases*, 43(9):991–1017, Septem-
[TPSJS20b] Felix Teitge, Christina Peppler, Dieter Steinha


[TSV+22] Eswaramoorthy Thirumalaikumar, Ramamoorthy Sathishkumar, Sugumar Vimal, Mariavincen

[TANG22] Jia-Jia Tang, Zhi-Hong Zhong, Zhi-Cheng Li, Qing-Kai Guo, Shi-Yu Li, Yi-Xuan Guo, Biao Jiang, and An-Xing Li. Quantitative detection of parasitic ciliate Cryptocaryon irritans
REFERENCES


[VBG⁺22] Beatriz Valenzuela, Almendra Benavides, Daniela Gutierrez, Lotsé Blamey, Maríà Teresa Monsalves, Brenda Modak, and Jenny M. Blamey. Violacein from an Antarctic *Iodobacter* sp. TMAnt and its function as immunomodulator of the


Arun Venugopalan, Matt J. Griffin, David J. Wise, Danielle White, Lorelei Ford, Adrián López-Porras, Alvin C. Camus,
and Larry A. Hanson. Virulence and immunogenicity of blue catfish alloherpesvirus in channel, blue and blue \times channel hybrid catfish. *Journal of Fish Diseases*, 44(9):1399–1409, September 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


[Vidal:2022:PSF] José Miguel Vidal, Pamela Ruiz, Carlos Carrasco, Javier Barros, Daniela Sepúlveda, Nathaly Ruiz-Tagle, Alex...
REFERENCES


[Vazquez-Salgado:2022:NNV]

[Vazquez-Salgado:2021:ERD]

[Weichert:2021:MBS]

[Waldner:2021:EWT]

[Walsh:2021:IAI]
Heather L. Walsh, Vicki S. Blazer, and Patricia M. Mazik. Identification of *Aphanomyces invadans*, the cause of epizootic ulcerative syndrome, in smallmouth bass (*Micropterus

**Warshafsky:2020:PIP**


**Wangman:2020:DRI**


**Wang:2023:ETS**


**Welch:2020:CNY**


**Wang:2021:CFS**

REFERENCES


[Wei22] Hongling Wei, Mingzhu Liu, Ke Ke, Shuangyan Xiao, Lin Huang, Qiongyu He, Changping Mo, Hai Pang, Guozhu Xiao, Pengfei Li, and Qing Yu. Study on aptamer based high throughput approach identifies natural ingredients against RGNNV. *Journal of Fish Diseases*, 45(11):1711–1719, November 2022. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).
REFERENCES


REFERENCES

Wu:2020:CMA


Wang:2021:CTC

Li Wang, Qiuxia Wang, Lei Wang, Shixiu Wu, Yan Yu, Yanhong Zhang, Pei Gao, Xianghui Kong, and Jinyou Ma. The N- and C-terminal carbohydrate recognition domains of galectin-9 from *Carassius auratus* contribute differently to its immunity functions to *Aeromonas hydrophila* and *Staphylococcus aureus*. *Journal of Fish Diseases*, 44(11):1865–1873, November 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Wang:2022:MMA


Wang:2023:ILB


Wang:2020:MLM

Sijia Wang, Bo Zhang, Qingxiang Guo, Yanhua Zhai, and Zemao Gu. Molecular and light microscopy evidence for the

REFERENCES


Cheng:2021:TAT


Xia:2021:CIA


Xie:2021:GTR

Xiao Xie, Yunyan Jiang, Rujiang Miao, Jiashuang Huang, Liyao Zhou, Jindong Kong, and Fei Yin. The gill transcriptome reveals unique antimicrobial features that protect *Nibea albiflora* from *Cryptocaryon irritans* infection. *Journal of Fish Diseases*, 44(8):1215–1227, August 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Xu:2022:RSV


Xiong:2022:TAC

Ning-Xia Xiong, Xu-Ying Kuang, Zi-Xuan Fang, Jie Ou, Shi-Yun Li, Jia-Hui Zhao, Jin-Fang Huang, Ke-Xin Li, Rou


Fei Yu, Shuxin Li, Hongxun Chen, Kai Hao, Lihui Meng, Jiayue Yang, and Zhe Zhao. Multiple AT-rich sequences function as a *cis*-element in the ORF3 promoter in channel catfish virus (*Ictalurid herpesvirus 1*). *Journal of Fish Diseases*, 44(10):1609–1617, October 2021. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).


REFERENCES

Yamkasem:2022:PTT


Yi:2022:MCE


Yamkasem:2022:DAT


Yu:2021:FOC


Yang:2022:AEP

REFERENCES


REFERENCES


References

Zhao:2020:IIC


Zhou:2021:RVD


Zhang:2022:AVV


Zhou:2021:SDM


Zhou:2022:IRV


Zhang:2022:RDG


Zrncic:2021:FDD


Zhong:2023:TOS


Zhang:2022:EGI


Zhao:2020:CEI

REFERENCES

2020. CODEN JFIDDI. ISSN 0140-7775 (print), 1365-2761 (electronic).

Zahid:2023:AEC


Zhao:2022:ERA


Zhang:2020:CTL


Zhao:2023:DAS


Zheng:2021:IIC