

# Navaneethaiyer Umasuthan

## List of Publications by Year in descending order

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291  
papers

5,056  
citations

117453

34  
h-index

197535

49  
g-index

291  
all docs

291  
docs citations

291  
times ranked

4600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial Activity of Graphene Oxide Nanosheets. <i>Science of Advanced Materials</i> , 2012, 4, 1111-1117.	0.1	116
2	Graphene oxide nanostructures modified multifunctional cotton fabrics. <i>Applied Nanoscience (Switzerland)</i> , 2012, 2, 119-126.	1.6	106
3	Metagenomics analysis of gut microbiota and immune modulation in zebrafish ( <i>Danio rerio</i> ) fed chitosan silver nanocomposites. <i>Fish and Shellfish Immunology</i> , 2017, 66, 173-184.	1.6	93
4	Transcriptional analysis of antioxidant and immune defense genes in disk abalone ( <i>Haliotis discus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Biochemistry and Molecular Biology</i> , 2009, 154, 387-395.	0.7	91
5	Synthesis, characterization of ZnO-chitosan nanocomposites and evaluation of its antifungal activity against pathogenic <i>Candida albicans</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 108, 1281-1288.	3.6	85
6	First molluscan TNF- $\beta$ homologue of the TNF superfamily in disk abalone: Molecular characterization and expression analysis. <i>Fish and Shellfish Immunology</i> , 2009, 26, 625-631.	1.6	81
7	Comparative study on antifungal activities of chitosan nanoparticles and chitosan silver nano composites against <i>Fusarium oxysporum</i> species complex. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 478-488.	3.6	79
8	Two ferritin subunits from disk abalone ( <i>Haliotis discus discus</i> ): Cloning, characterization and expression analysis. <i>Fish and Shellfish Immunology</i> , 2007, 23, 624-635.	1.6	70
9	Outcome of co-infection with opportunistic and multidrug resistant <i>Aeromonas hydrophila</i> and <i>A. veronii</i> in zebrafish: Identification, characterization, pathogenicity and immune responses. <i>Fish and Shellfish Immunology</i> , 2018, 80, 573-581.	1.6	67
10	Effect of cadmium exposure on expression of antioxidant gene transcripts in the river pufferfish, <i>Takifugu obscurus</i> (Tetraodontiformes). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2010, 152, 473-479.	1.3	63
11	Molecular evidence for the existence of lipopolysaccharide-induced TNF- $\beta$ factor (LITAF) and Rel/NF- $\kappa$ B pathways in disk abalone ( <i>Haliotis discus discus</i> ). <i>Fish and Shellfish Immunology</i> , 2010, 28, 754-763.	1.6	62
12	Characterization and expression analysis of a goose-type lysozyme from the rock bream <i>Oplegnathus fasciatus</i> , and antimicrobial activity of its recombinant protein. <i>Fish and Shellfish Immunology</i> , 2011, 30, 532-542.	1.6	61
13	A manganese superoxide dismutase (MnSOD) from <i>Ruditapes philippinarum</i> : Comparative structural- and expressional-analysis with copper/zinc superoxide dismutase (Cu/ZnSOD) and biochemical analysis of its antioxidant activities. <i>Fish and Shellfish Immunology</i> , 2012, 33, 753-765.	1.6	61
14	A novel C-type lectin from abalone, <i>Haliotis discus discus</i> , agglutinates <i>Vibrio alginolyticus</i> . <i>Developmental and Comparative Immunology</i> , 2008, 32, 1034-1040.	1.0	58
15	Mitochondrial thioredoxin-2 from disk abalone ( <i>Haliotis discus discus</i> ): Molecular characterization, tissue expression and DNA protection activity of its recombinant protein. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008, 149, 630-639.	0.7	57
16	Cloning, characterization and tissue expression of disk abalone ( <i>Haliotis discus discus</i> ) catalase. <i>Fish and Shellfish Immunology</i> , 2008, 24, 267-278.	1.6	52
17	Silver nanoparticles enhance wound healing in zebrafish ( <i>Danio rerio</i> ). <i>Fish and Shellfish Immunology</i> , 2017, 68, 536-545.	1.6	47
18	Feeding of nano scale oats $\beta$ -glucan enhances the host resistance against <i>Edwardsiella tarda</i> and protective immune modulation in zebrafish larvae. <i>Fish and Shellfish Immunology</i> , 2017, 60, 72-77.	1.6	46

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19	Gene expression of pro- and anti-apoptotic proteins in rock bream ( <i>Oplegnathus fasciatus</i> ) infected with megalocytivirus (family Iridoviridae). <i>Fish and Shellfish Immunology</i> , 2014, 37, 122-130.	1.6	44
20	Nanoencapsulation of inactivated-viral vaccine using chitosan nanoparticles: Evaluation of its protective efficacy and immune modulatory effects in olive flounder ( <i>Paralichthys olivaceus</i> ) against viral haemorrhagic septicaemia virus (VHSV) infection. <i>Fish and Shellfish Immunology</i> , 2019, 91, 136-147.	1.6	44
21	Interferon regulatory factors 4 and 8 in rock bream, <i>Oplegnathus fasciatus</i> : Structural and expressional evidence for their antimicrobial role in teleosts. <i>Fish and Shellfish Immunology</i> , 2012, 33, 857-871.	1.6	43
22	Molecular and functional characterization of HdHSP20: A biomarker of environmental stresses in disk abalone <i>Haliotis discus discus</i> . <i>Fish and Shellfish Immunology</i> , 2012, 33, 48-59.	1.6	43
23	Validation of housekeeping genes as internal controls for studying biomarkers of endocrine-disrupting chemicals in disk abalone by real-time PCR. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2011, 153, 259-268.	1.3	42
24	Chitosan nanoparticles: A positive immune response modulator as display in zebrafish larvae against <i>Aeromonas hydrophila</i> infection. <i>Fish and Shellfish Immunology</i> , 2018, 76, 240-246.	1.6	42
25	Transcriptional up-regulation of disk abalone selenium dependent glutathione peroxidase by H <sub>2</sub> O <sub>2</sub> oxidative stress and <i>Vibrio alginolyticus</i> bacterial infection. <i>Fish and Shellfish Immunology</i> , 2008, 25, 446-457.	1.6	40
26	Molecular cloning and functional characterization of two duplicated two-cysteine containing type I interferon genes in rock bream <i>Oplegnathus fasciatus</i> . <i>Fish and Shellfish Immunology</i> , 2012, 33, 886-898.	1.6	39
27	Effects of LED light spectra on the growth of the yellowtail clownfish <i>Amphiprion clarkii</i> . <i>Fisheries Science</i> , 2012, 78, 549-556.	0.7	39
28	Molecular characterization and comparative expression analysis of two teleostean pro-inflammatory cytokines, IL-1 $\beta$ and IL-8, from <i>Sebastes schlegeli</i> . <i>Gene</i> , 2016, 575, 732-742.	1.0	39
29	PLGA encapsulated inactivated-viral vaccine: Formulation and evaluation of its protective efficacy against viral haemorrhagic septicaemia virus (VHSV) infection in olive flounder ( <i>Paralichthys</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.7	38
30	Molecular characterization of mu class glutathione-S-transferase from disk abalone ( <i>Haliotis discus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 <i>Physiology - B Biochemistry and Molecular Biology</i> , 2008, 150, 187-199.	0.7	38
31	Molecular cloning and characterization of Mn-superoxide dismutase from disk abalone ( <i>Haliotis</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 2006, 145, 318-324.	0.7	37
32	Molecular cloning and characterization of three sigma glutathione S-transferases from disk abalone ( <i>Haliotis discus discus</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008, 151, 257-267.	0.7	36
33	Molecular cloning, characterization and expression analysis of peroxiredoxin 6 from disk abalone <i>Haliotis discus discus</i> and the antioxidant activity of its recombinant protein. <i>Fish and Shellfish Immunology</i> , 2009, 27, 239-249.	1.6	36
34	Gene structure, molecular characterization and transcriptional expression of two p38 isoforms ( ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 47, 331-343.	1.6	36
35	<i>Saprolegnia parasitica</i> Isolated from Rainbow Trout in Korea: Characterization, Anti- <i>Saprolegnia</i> Activity and Host Pathogen Interaction in Zebrafish Disease Model. <i>Mycobiology</i> , 2017, 45, 297-311.	0.6	36
36	Rock bream ( <i>Oplegnathus fasciatus</i> ) serpin, protease nexin-1: Transcriptional analysis and characterization of its antiprotease and anticoagulant activities. <i>Developmental and Comparative Immunology</i> , 2011, 35, 785-798.	1.0	35

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37	A novel acute phase reactant, serum amyloid A-like 1, from <i>Oplegnathus fasciatus</i> : Genomic and molecular characterization and transcriptional expression analysis. <i>Developmental and Comparative Immunology</i> , 2012, 37, 294-305.	1.0	35
38	Characterization of a novel molluscan MyD88 family protein from manila clam, <i>Ruditapes philippinarum</i> . <i>Fish and Shellfish Immunology</i> , 2011, 31, 887-893.	1.6	34
39	Characterization and expression analysis of the myeloid differentiation factor 88 (MyD88) in rock bream <i>Oplegnathus fasciatus</i> . <i>Molecular Biology Reports</i> , 2011, 38, 3911-3920.	1.0	33
40	Molecular cloning and expression analysis of interferon- $\gamma$ inducible lysosomal thiol reductase (GILT)-like cDNA from disk abalone ( <i>Haliotis discus discus</i> ). <i>Journal of Invertebrate Pathology</i> , 2007, 96, 221-229.	1.5	32
41	Molecular characterization, immune responses and DNA protection activity of rock bream ( <i>Oplegnathus fasciatus</i> ), peroxiredoxin 6 (Prx6). <i>Fish and Shellfish Immunology</i> , 2012, 33, 28-35.	1.6	32
42	First comparative characterization of three distinct ferritin subunits from a teleost: Evidence for immune-responsive mRNA expression and iron depriving activity of seahorse ( <i>Hippocampus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 1250 537 T		
43	In vitro and in vivo antifungal efficacy of plant based lawsone against <i>Fusarium oxysporum</i> species complex. <i>Microbiological Research</i> , 2017, 201, 21-29.	2.5	32
44	Isolation and characterization of phage (ETP-1) specific to multidrug resistant pathogenic <i>Edwardsiella tarda</i> and its in vivo biocontrol efficacy in zebrafish ( <i>Danio rerio</i> ). <i>Biologicals</i> , 2020, 63, 14-23.	0.5	32
45	A novel Fas ligand in mollusk abalone: Molecular characterization, immune responses and biological activity of the recombinant protein. <i>Fish and Shellfish Immunology</i> , 2009, 27, 423-432.	1.6	31
46	Immune response-related gene expression profile of a novel molluscan $\beta$ protein member from Manila clam ( <i>Ruditapes philippinarum</i> ). <i>Molecular Biology Reports</i> , 2013, 40, 1519-1527.	1.0	31
47	A manganese superoxide dismutase with potent antioxidant activity identified from <i>Oplegnathus fasciatus</i> : Genomic structure and transcriptional characterization. <i>Fish and Shellfish Immunology</i> , 2013, 34, 23-37.	1.6	31
48	Dietary Immunostimulant CpG Modulates MicroRNA Biomarkers Associated with Immune Responses in Atlantic Salmon ( <i>Salmo salar</i> ). <i>Cells</i> , 2019, 8, 1592.	1.8	31
49	Molluscan death effector domain (DED)-containing caspase-8 gene from disk abalone ( <i>Haliotis discus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1250 537 T 480-487.	1.6	30
50	A novel molluscan sigma-like glutathione S-transferase from Manila clam, <i>Ruditapes philippinarum</i> : Cloning, characterization and transcriptional profiling. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012, 155, 539-550.	1.3	30
51	Antibacterial activity and immune responses of a molluscan macrophage expressed gene-1 from disk abalone, <i>Haliotis discus discus</i> . <i>Fish and Shellfish Immunology</i> , 2014, 39, 263-272.	1.6	30
52	Evidences for the involvement of an invertebrate goose-type lysozyme in disk abalone immunity: Cloning, expression analysis and antimicrobial activity. <i>Fish and Shellfish Immunology</i> , 2013, 35, 1369-1379.	1.6	29
53	The effect of LED light spectra on antioxidant system by thermal stress in goldfish, <i>Carassius auratus</i> . <i>Molecular and Cellular Toxicology</i> , 2014, 10, 47-58.	0.8	29
54	First molluscan theta-class Glutathione S-Transferase: Identification, cloning, characterization and transcriptional analysis post immune challenges. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2012, 162, 10-23.	0.7	28

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55	Caspase 3 from rock bream ( <i>Oplegnathus fasciatus</i> ): Genomic characterization and transcriptional profiling upon bacterial and viral inductions. <i>Fish and Shellfish Immunology</i> , 2012, 33, 99-110.	1.6	27
56	A bifunctional invertebrate-type lysozyme from the disk abalone, <i>Haliotis discus discus</i> : Genome organization, transcriptional profiling and biological activities of recombinant protein. <i>Developmental and Comparative Immunology</i> , 2013, 41, 282-294.	1.0	27
57	Identification of scuticociliates ( <i>Pseudocohnilembus persalinus</i> , <i>P. longisetus</i> , <i>Uronema marinum</i> and) Tj ETQq1 1 0.784314 rgBT /Overlock 0.6 27	0.6	27
58	Transcriptomic Profiling in Fins of Atlantic Salmon Parasitized with Sea Lice: Evidence for an Early Imbalance Between Chalmus-Induced Immunomodulation and the Host's Defense Response. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2417.	1.8	27
59	Green synthesis, physio-chemical characterization and anti-candidal function of a biocompatible chitosan gold nanocomposite as a promising antifungal therapeutic agent. <i>RSC Advances</i> , 2017, 7, 9182-9193.	1.7	26
60	A Newly Identified Glutaminase-Free L-Asparaginase (L-ASPG86) from the Marine Bacterium <i>Mesoflavibacter zeaxanthinifaciens</i> . <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 1115-1123.	0.9	26
61	First molluscan transcription factor activator protein-1 (Ap-1) member from disk abalone and its expression profiling against immune challenge and tissue injury. <i>Fish and Shellfish Immunology</i> , 2010, 29, 1028-1036.	1.6	25
62	Heparin cofactor II (RbHCII) from rock bream ( <i>Oplegnathus fasciatus</i> ): Molecular characterization, cloning and expression analysis. <i>Fish and Shellfish Immunology</i> , 2011, 30, 194-208.	1.6	25
63	Diurnal and circadian regulations by three melatonin receptors in the brain and retina of olive flounder <i>Paralichthys olivaceus</i> : profiles following exogenous melatonin. <i>Marine and Freshwater Behaviour and Physiology</i> , 2011, 44, 223-238.	0.4	25
64	Cytosolic thioredoxin from <i>Ruditapes philippinarum</i> : Molecular cloning, characterization, expression and DNA protection activity of the recombinant protein. <i>Developmental and Comparative Immunology</i> , 2012, 36, 85-92.	1.0	25
65	A teleostan homolog of catalase from black rockfish ( <i>Sebastes schlegelii</i> ): Insights into functional roles in host antioxidant defense and expressional responses to septic conditions. <i>Fish and Shellfish Immunology</i> , 2015, 44, 321-331.	1.6	25
66	Molecular and transcriptional insights into viperin protein from Big-belly seahorse ( <i>Hippocampus</i> ) Tj ETQq0 0 0 rgBT /Overlock 1.6 25 Tf 50	1.6	25
67	Ferritin H-like subunit from Manila clam ( <i>Ruditapes philippinarum</i> ): Molecular insights as a potent player in host antibacterial defense. <i>Fish and Shellfish Immunology</i> , 2012, 33, 926-936.	1.6	24
68	A C1 inhibitor ortholog from rock bream ( <i>Oplegnathus fasciatus</i> ): Molecular perspectives of a central regulator in terms of its genomic arrangement, transcriptional profiles and anti-protease activities of recombinant peptide. <i>Developmental and Comparative Immunology</i> , 2014, 42, 197-210.	1.0	24
69	Copper-zinc-superoxide dismutase (CuZnSOD), an antioxidant gene from seahorse ( <i>Hippocampus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1.6 24 peroxidation function of its recombinant protein. <i>Fish and Shellfish Immunology</i> , 2016, 57, 386-399.	1.6	24
70	Molecular characterization, transcriptional profiling, and antibacterial potential of G-type lysozyme from seahorse ( <i>Hippocampus abdominalis</i> ). <i>Fish and Shellfish Immunology</i> , 2016, 58, 622-630.	1.6	24
71	Transcriptome-wide identification, functional characterization, and expression analysis of two novel invertebrate-type Toll-like receptors from disk abalone ( <i>Haliotis discus discus</i> ). <i>Fish and Shellfish Immunology</i> , 2019, 84, 802-815.	1.6	24
72	Transcriptional analysis of disk abalone ( <i>Haliotis discus discus</i> ) antioxidant enzymes against marine bacteria and virus challenge. <i>Fish and Shellfish Immunology</i> , 2011, 31, 155-160.	1.6	23

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73	A teleostean counterpart of ferritin M subunit from rock bream ( <i>Oplegnathus fasciatus</i> ): An active constituent in iron chelation and DNA protection against oxidative damage, with a modulated expression upon pathogen stress. <i>Fish and Shellfish Immunology</i> , 2013, 35, 1455-1465.	1.6	22
74	Functional characterization of the evolutionarily preserved mitochondrial antiviral signaling protein (MAVS) from rock bream, <i>Oplegnathus fasciatus</i> . <i>Fish and Shellfish Immunology</i> , 2014, 40, 399-406.	1.6	22
75	Mitochondrial peroxiredoxin 3 (Prx3) from rock bream ( <i>Oplegnathus fasciatus</i> ): Immune responses and role of recombinant Prx3 in protecting cells from hydrogen peroxide induced oxidative stress. <i>Fish and Shellfish Immunology</i> , 2015, 43, 131-141.	1.6	22
76	Molecular characterization, genomic structure and expressional profiles of a CXC chemokine receptor 4 (CXCR4) from rock bream <i>Oplegnathus fasciatus</i> . <i>Fish and Shellfish Immunology</i> , 2015, 44, 471-477.	1.6	22
77	Antimicrobial response of galectin-1 from rock bream <i>Oplegnathus fasciatus</i> : Molecular, transcriptional, and biological characterization. <i>Fish and Shellfish Immunology</i> , 2016, 50, 66-78.	1.6	22
78	Manganese-superoxide dismutase (MnSOD), a role player in seahorse ( <i>Hippocampus abdominalis</i> ) antioxidant defense system and adaptive immune system. <i>Fish and Shellfish Immunology</i> , 2017, 68, 435-442.	1.6	22
79	Molecular characterization of kappa class glutathione S-transferase from the disk abalone ( <i>Haliotis</i> ) Tj ETQq1 1 0.784314 rgBT /Overl Immunology, 2018, 77, 252-263.	1.6	22
80	Molecular identification and functional analysis of two variants of myeloid differentiation factor 88 (MyD88) from disk abalone ( <i>Haliotis discus discus</i> ). <i>Developmental and Comparative Immunology</i> , 2018, 79, 113-127.	1.0	22
81	Novel omega glutathione S-transferases in disk abalone: Characterization and protective roles against environmental stress. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2009, 150, 558-568.	1.3	21
82	Molecular insights of the first gastropod TLR counterpart from disk abalone ( <i>Haliotis discus discus</i> ), revealing its transcriptional modulation under pathogenic stress. <i>Fish and Shellfish Immunology</i> , 2013, 35, 334-342.	1.6	21
83	Two carboxypeptidase counterparts from rock bream ( <i>Oplegnathus fasciatus</i> ): Molecular characterization, genomic arrangement and immune responses upon pathogenic stresses. <i>Veterinary Immunology and Immunopathology</i> , 2014, 162, 180-191.	0.5	21
84	Analysis of Digestive Gland Expressed Sequence Tag Library from the Disk Abalone, <i>Haliotis discus discus</i> . <i>Journal of the World Aquaculture Society</i> , 2006, 37, 96-106.	1.2	20
85	Two duplicated chicken-type lysozyme genes in disc abalone <i>Haliotis discus discus</i> : Molecular aspects in relevance to structure, genomic organization, mRNA expression and bacteriolytic function. <i>Fish and Shellfish Immunology</i> , 2013, 35, 284-299.	1.6	20
86	The possible role of catalase in innate immunity and diminution of cellular oxidative stress: Insights into its molecular characteristics, antioxidant activity, DNA protection, and transcriptional regulation in response to immune stimuli in yellowtail clownfish ( <i>Amphiprion clarkii</i> ). <i>Fish and Shellfish Immunology</i> , 2021, 113, 106-117.	1.6	20
87	Genomic characterization and expression analysis of complement component 9 in rock bream ( <i>Oplegnathus fasciatus</i> ). <i>Fish and Shellfish Immunology</i> , 2012, 33, 707-717.	1.6	19
88	Mitochondrial thioredoxin-2 from Manila clam ( <i>Ruditapes philippinarum</i> ) is a potent antioxidant enzyme involved in antibacterial response. <i>Fish and Shellfish Immunology</i> , 2012, 32, 513-523.	1.6	19
89	A CXC chemokine gene, CXCL12, from rock bream, <i>Oplegnathus fasciatus</i> : Molecular characterization and transcriptional profile. <i>Fish and Shellfish Immunology</i> , 2015, 45, 560-566.	1.6	19
90	Molecular genomic- and transcriptional-aspects of a teleost TRAF6 homolog: Possible involvement in immune responses of <i>Oplegnathus fasciatus</i> against pathogens. <i>Fish and Shellfish Immunology</i> , 2015, 42, 66-78.	1.6	19

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91	Identification and molecular characterization of peroxiredoxin 6 from Japanese eel ( <i>Anguilla japonica</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6 Immunology, 2016, 51, 291-302.	1.6	19
92	Rock bream iridovirus (RBIV) replication in rock bream ( <i>Oplegnathus fasciatus</i> ) exposed for different time periods to susceptible water temperatures. Fish and Shellfish Immunology, 2017, 70, 731-735.	1.6	19
93	Chitosan silver nanocomposite (CAgNC) as an antifungal agent against <i>Candida albicans</i> . Medical Mycology, 2017, 55, 213-222.	0.3	19
94	Molecular, transcriptional and functional delineation of Galectin-8 from black rockfish ( <i>Sebastes</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	1.6	19
95	Molecular characterization and gene expression analysis of a pattern recognition protein from disk abalone, <i>Haliotis discus discus</i> . Fish and Shellfish Immunology, 2008, 25, 638-647.	1.6	18
96	Disk abalone ( <i>Haliotis discus discus</i> ) expresses a novel antistasin-like serine protease inhibitor: Molecular cloning and immune response against bacterial infection. Fish and Shellfish Immunology, 2010, 28, 661-671.	1.6	18
97	Microarray analysis of gene expression in disk abalone <i>Haliotis discus discus</i> after bacterial challenge. Fish and Shellfish Immunology, 2011, 30, 661-673.	1.6	18
98	Genomic characterization and expression profiles upon bacterial infection of a novel cystatin B homologue from disk abalone ( <i>Haliotis discus discus</i> ). Developmental and Comparative Immunology, 2012, 38, 495-504.	1.0	18
99	Two NF- $\kappa$ B inhibitor- $\alpha$ ( $I\kappa$ B $\alpha$ ) genes from rock bream ( <i>Oplegnathus fasciatus</i> ): Molecular characterization, genomic organization and mRNA expression analysis after immune stimulation. Fish and Shellfish Immunology, 2014, 41, 633-642.	1.6	18
100	Profiles of photosynthetic pigment accumulation and expression of photosynthesis-related genes in the marine cyanobacteria <i>Synechococcus</i> sp.: Effects of LED wavelengths. Biotechnology and Bioprocess Engineering, 2014, 19, 250-256.	1.4	18
101	Identification and characterization of a calcium-dependent lily-type lectin from black rockfish ( <i>Sebastes schlegelii</i> ): Molecular antennas are involved in host defense via pathogen recognition. Developmental and Comparative Immunology, 2018, 81, 54-62.	1.0	18
102	Molecular characterization and functional analysis of glutathione S-transferase kappa 1 ( $GST\kappa 1$ ) from the big belly seahorse ( <i>Hippocampus abdominalis</i> ): Elucidation of its involvement in innate immune responses. Fish and Shellfish Immunology, 2019, 92, 356-366.	1.6	18
103	Molecular aspects, genomic arrangement and immune responsive mRNA expression profiles of two CXC chemokine receptor homologs (CXCR1 and CXCR2) from rock bream, <i>Oplegnathus fasciatus</i> . Fish and Shellfish Immunology, 2014, 40, 304-318.	1.6	17
104	A potential antioxidant enzyme belonging to the atypical 2-Cys peroxiredoxin subfamily characterized from rock bream, <i>Oplegnathus fasciatus</i> . Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2015, 187, 1-13.	0.7	17
105	Molecular, genomic, and expressional delineation of a piscidin from rock bream ( <i>Oplegnathus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6 Immunology, 2016, 48, 154-168.	1.6	17
106	Identification of a gene encoding a membrane-anchored toll-like receptor 5 (TLR5M) in <i>Oplegnathus fasciatus</i> that responds to flagellin challenge and activates NF- $\kappa$ B. Fish and Shellfish Immunology, 2017, 62, 276-290.	1.6	17
107	Protective immunity against Megalocytivirus infection in rock bream ( <i>Oplegnathus fasciatus</i> ) following CpG ODN administration. Vaccine, 2017, 35, 3691-3699.	1.7	17
108	Molecular characterization and expression analysis of rockfish ( <i>Sebastes schlegelii</i> ) viperin, and its ability to enervate RNA virus transcription and replication in vitro. Fish and Shellfish Immunology, 2019, 92, 655-666.	1.6	17

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109	Molecular insight into regulation of miRNAs in the spleen of zebrafish ( <i>Danio rerio</i> ) upon pathogenic <i>Streptococcus parauberis</i> infection. <i>Fish and Shellfish Immunology</i> , 2020, 106, 898-909.	1.6	17
110	Genomic characterization, expression analysis, and antimicrobial function of a glyrichin homologue from rock bream, <i>Oplegnathus fasciatus</i> . <i>Fish and Shellfish Immunology</i> , 2013, 35, 1406-1415.	1.6	16
111	Three complement component 1q genes from rock bream, <i>Oplegnathus fasciatus</i> : Genome characterization and potential role in immune response against bacterial and viral infections. <i>Fish and Shellfish Immunology</i> , 2013, 35, 1442-1454.	1.6	16
112	Characterization of rock bream ( <i>Oplegnathus fasciatus</i> ) cytosolic Cu/Zn superoxide dismutase in terms of molecular structure, genomic arrangement, stress-induced mRNA expression and antioxidant function. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2014, 176, 18-33.	0.7	16
113	Membrane attack complex-associated molecules from redlip mullet ( <i>Liza haematocheila</i> ): Molecular characterization and transcriptional evidence of C6, C7, C8 $\beta$ , and C9 in innate immunity. <i>Fish and Shellfish Immunology</i> , 2018, 81, 1-9.	1.6	16
114	Analysis of complete genome and pathogenicity studies of the spring viremia of carp virus isolated from common carp ( <i>Cyprinus carpio carpio</i> ) and largemouth bass ( <i>Micropterus salmoides</i> ): An indication of SVC disease threat in Korea. <i>Virus Research</i> , 2018, 255, 105-116.	1.1	16
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