Kenneth SÃ¶derhÃ¤ll

List of Publications by Year
in descending order

203 papers	18,691 citations	12330 69 h-index	12597 132 g-index
207 all docs	207 docs citations	207 times ranked	7317 citing authors

#	Article	IF	Citations
1	The prophenoloxidaseâ€activating system in invertebrates. Immunological Reviews, 2004, 198, 116-126.	6.0	1,378
2	Role of the prophenoloxidase-activating system in invertebrate immunity. Current Opinion in Immunology, 1998, 10, 23-28.	5.5	1,146
3	The proPO-system: pros and cons for its role in invertebrate immunity. Trends in Immunology, 2008, 29, 263-271.	6.8	1,008
4	Cell-mediated immunity in arthropods: Hematopoiesis, coagulation, melanization and opsonization. Immunobiology, 2006, 211, 213-236.	1.9	718
5	Separation of the haemocyte populations of CarcinusMaenas and other marine decapods, and prophenoloxidase distribution. Developmental and Comparative Immunology, 1983, 7, 229-239.	2.3	591
6	Crustacean haemocytes and haematopoiesis. Aquaculture, 2000, 191, 45-52.	3.5	549
7	The proPO and clotting system in crustaceans. Aquaculture, 2000, 191, 53-69.	3.5	394
8	Early events in crustacean innate immunity. Fish and Shellfish Immunology, 2002, 12, 421-437.	3.6	384
9	Crustacean immunity. Annual Review of Fish Diseases, 1992, 2, 3-23.	1.0	352
10	Cell adhesion molecules and antioxidative enzymes in a crustacean, possible role in immunity. Aquaculture, 1999, 172, 111-123.	3.5	318
11	Proteolytic cascades and their involvement in invertebrate immunity. Trends in Biochemical Sciences, 2010, 35, 575-583.	7.5	308
12	Coagulation in arthropods: defence, wound closure and healing. Trends in Immunology, 2004, 25, 289-294.	6.8	297
13	A Lipopolysaccharide- and Î²-1,3-Glucan-binding Protein from Hemocytes of the Freshwater Crayfish Pacifastacus leniusculus. Journal of Biological Chemistry, 2000, 275, 1337-1343.	3.4	274
14	Hemocyte production and maturation in an invertebrate animal; proliferation and gene expression in hematopoietic stem cells of Pacifastacus leniusculus. Developmental and Comparative Immunology, 2003, 27, 661-672.	2.3	261
15	Antilipopolysaccharide Factor Interferes with White Spot Syndrome Virus Replication In Vitro and In Vivo in the Crayfish Pacifastacus leniusculus. Journal of Virology, 2006, 80, 10365-10371.	3.4	224
16	A comparison of phenoloxidase activity in the blood of marine invertebrates. Developmental and Comparative Immunology, 1991, 15, 251-261.	2.3	217
17	Phenoloxidase Is an Important Component of the Defense against Aeromonas hydrophila Infection in a Crustacean, Pacifastacus leniusculus. Journal of Biological Chemistry, 2007, 282, 33593-33598.	3.4	213
18	Processing of an Antibacterial Peptide from Hemocyanin of the Freshwater Crayfish Pacifastacus leniusculus. Journal of Biological Chemistry, 2003, 278, 7927-7933.	3.4	200

#	Article	IF	Citations
19	Molecular Control of Phenoloxidase-induced Melanin Synthesis in an Insect. Journal of Biological Chemistry, 2008, 283, 25316-25323.	3.4	198
20	Î²-l, 3 GLUCAN ACTIVATION OF CRUSTACEAN HEMOCYTESIN VITROANDIN VIVO. Biological Bulletin, 1983, 164, 299-314.	1.8	182
21	Fungal Cell Wall Î²-1,3-Glucans Induce Clotting and Phenoloxidase Attachment to Foreign Surfaces of Crayfish Hemocyte Lysate. Developmental and Comparative Immunology, 1981, 5, 565-573.	2.3	181
22	Studies on prophenoloxidase and protease activity of Blaberus craniifer haemocytes. Insect Biochemistry, 1985, 15, 803-810.	1.8	180
23	An Ancient Role for a Prokineticin Domain in Invertebrate Hematopoiesis. Journal of Immunology, 2005, 174, 6153-6160.	0.8	163
24	Properties of the prophenoloxidase activating enzyme of the freshwater crayfish,Pacifastacus leniusculus. FEBS Journal, 2001, 268, 895-902.	0.2	157
25	Activation of serum prophenoloxidase in arthropod immunity. The specificity of cell wall glucan activation and activation by purified fungal glycoproteins of crayfish phenoloxidase. Canadian Journal of Microbiology, 1979, 25, 406-414.	1.7	154
26	Purification of prophenoloxidase from crayfish blood cells, and its activation by an endogenous serine proteinase. Insect Biochemistry, 1991, 21, 363-373.	1.8	153
27	The Prophenoloxidase Activating System and Its Role in Invertebrate Defence. Annals of the New York Academy of Sciences, 1994, 712, 155-161.	3.8	152
28	A Three-step Proteolytic Cascade Mediates the Activation of the Peptidoglycan-induced Toll Pathway in an Insect. Journal of Biological Chemistry, 2008, 283, 7599-7607.	3.4	142
29	Characterization of a Pattern Recognition Protein, a Masquerade-Like Protein, in the Freshwater Crayfish Pacifastacus leniusculus. Journal of Immunology, 2001, 166, 7319-7326.	0.8	138
30	A New Easter-type Serine Protease Cleaves a Masquerade-like Protein during Prophenoloxidase Activation in Holotrichia diomphalia Larvae. Journal of Biological Chemistry, 2002, 277, 39999-40004.	3.4	138
31	Proteolytic Cascade for the Activation of the Insect Toll Pathway Induced by the Fungal Cell Wall Component. Journal of Biological Chemistry, 2009, 284, 19474-19481.	3.4	138
32	Expression of immune-related genes in the digestive organ of shrimp, Penaeus monodon, after an oral infection by Vibrio harveyi. Developmental and Comparative Immunology, 2010, 34, 19-28.	2.3	134
33	Effect of quinones and melanin on mycelial growth of Aphanomyces spp. and extracellular protease of Aphanomyces astaci, a parasite on crayfish. Journal of Invertebrate Pathology, 1982, 39, 105-109.	3.2	130
34	Host prophenoloxidase expression in freshwater crayfish is linked to increased resistance to the crayfish plague fungus, Aphanomyces astaci. Cellular Microbiology, 2003, 5, 353-357.	2.1	130
35	Antiviral immunity in crustaceans. Fish and Shellfish Immunology, 2009, 27, 79-88.	3.6	128
36	Physiological adaptation of an Aphanomyces astaci strain isolated from the freshwater crayfish Procambarus clarkii. Mycological Research, 1995, 99, 574-578.	2.5	122

#	Article	IF	Citations
37	Effect of water temperature on the immune response and infectivity pattern of white spot syndrome virus (WSSV) in freshwater crayfish. Fish and Shellfish Immunology, 2004, 17, 265-275.	3.6	122
38	Molecular cloning and characterization of prophenoloxidase in the black tiger shrimp, Penaeus monodon. Developmental and Comparative Immunology, 1999, 23, 179-186.	2.3	120
39	Phylogenetic relationships among plant and animal parasites, and saprotrophs in Aphanomyces (Oomycetes). Fungal Genetics and Biology, 2009, 46, 365-376.	2.1	120
40	Opsonic activity of cell adhesion proteins and Î²-1,3-glucan binding proteins from two crustaceans. Developmental and Comparative Immunology, 1994, 18, 3-12.	2.3	118
41	Processing of crayfish hemocyanin subunits into phenoloxidase. Biochemical and Biophysical Research Communications, 2004, 322, 490-496.	2.1	112
42	Analysis of genetic diversity in the crayfish plague fungus, Aphanomyces astaci, by random amplification of polymorphic DNA. Aquaculture, 1994, 126, 1-9.	3.5	110
43	Characterization of a clotting protein, isolated from plasma of the freshwater crayfish Pacifastacus leniusculus. FEBS Journal, 1993, 213, 591-597.	0.2	107
44	A Î²-1,3-glucan binding protein from the black tiger shrimp, Penaeus monodon. Developmental and Comparative Immunology, 2002, 26, 237-245.	2.3	104
45	A highly virulent pathogen, Aeromonas hydrophila, from the freshwater crayfish Pacifastacus leniusculus. Journal of Invertebrate Pathology, 2009, 101, 56-66.	3.2	104
46	Role of anti-lipopolysaccharide factor from the black tiger shrimp, Penaeus monodon, in protection from white spot syndrome virus infection. Journal of General Virology, 2009, 90, 1491-1498.	2.9	103
47	The prophenoloxidase activating system in crayfish. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1984, 77, 21-26.	0.2	101
48	Hindgut Innate Immunity and Regulation of Fecal Microbiota through Melanization in Insects. Journal of Biological Chemistry, 2012, 287, 14270-14279.	3.4	99
49	A cell adhesion factor from crayfish haemocytes has degranulating activity towards crayfish granular cells. Insect Biochemistry, 1989, 19, 183-190.	1.8	98
50	Î² 1,3-Glucan induced cellular defence reactions in the shore crab, Carcinus maenas. Comparative Biochemistry and Physiology A, Comparative Physiology, 1984, 77, 635-639.	0.6	97
51	Bacteria-Induced Dscam Isoforms of the Crustacean, Pacifastacus leniusculus. PLoS Pathogens, 2011, 7, e1002062.	4.7	97
52	The properties and purification of a Blaberus craniifer plasma protein which enhances the activation of haemocyte prophenoloxidase by a Î² 1,3-glucan. Insect Biochemistry, 1988, 18, 323-330.	1.8	96
53	Re-evaluation of the enigmatic species complex Saprolegnia diclinaâ€“Saprolegnia parasitica based on morphological, physiological and molecular data. Fungal Genetics and Biology, 2007, 44, 585-601.	2.1	93
54	Soluble fragments from fungal cell walls elicit defence reactions in crayfish. Nature, 1977, 267, 45-46.	27.8	92

#	Article	IF	Citations
55	A Cell Adhesion Protein from the Crayfish Pacifastacus leniusculus, a Serine Proteinase Homologue Similar toDrosophila Masquerade. Journal of Biological Chemistry, 2000, 275, 9996-10001.	3.4	91
56	Microarray analysis of immune challenged hemocytes. Experimental Cell Research, 2005, 305, 145-155.	2.6	89
57	Carbohydrate and Amino Acid Metabolism in the Ectomycorrhizal Ascomycete Sphaerosporella brunnea during Glucose Utilization. Plant Physiology, 1988, 86, 935-940.	4.8	88
58	Peptidoglycan Recognition Proteins Involved in 1,3-Î²-D-Glucan-dependent Prophenoloxidase Activation System of Insect. Journal of Biological Chemistry, 2004, 279, 3218-3227.	3.4	87
59	Characterization and Properties of a 1,3-Î²-d-Glucan Pattern Recognition Protein of Tenebrio molitor Larvae That Is Specifically Degraded by Serine Protease during Prophenoloxidase Activation. Journal of Biological Chemistry, 2003, 278, 42072-42079.	3.4	85
60	The effect of endogeneous proteinase inhibitors on the prophenoloxidase activating enzyme, a serine proteinase from crayfish haemocytes. Insect Biochemistry, 1990, 20, 485-492.	1.8	84
61	Purification and characterization of a prophenoloxidase activating enzyme from crayfish blood cells. Insect Biochemistry, 1990, 20, 709-718.	1.8	83
62	Transglutaminase activity in the hematopoietic tissue of a crustacean, Pacifastacus leniusculus, importance in hemocyte homeostasis. BMC Immunology, 2008, 9, 58.	2.2	82
63	Carbon and nitrogen metabolism in ectomycorrhizal fungi and ectomycorrhizas. Biochimie, 1987, 69, 569-581.	2.6	81
64	Expression of immune-related genes in larval stages of the giant tiger shrimp, Penaeus monodon. Fish and Shellfish Immunology, 2007, 23, 815-824.	3.6	80
65	Coagulation in Invertebrates. Journal of Innate Immunity, 2011, 3, 3-8.	3.8	79
66	Purification and cDNA cloning of a fourâ€domain Kazal proteinase inhibitor from crayfish blood cells. FEBS Journal, 1994, 223, 389-394.	0.2	75
67	Characterization of white spot syndrome virus replication in in vitro-cultured haematopoietic stem cells of freshwater crayfish, Pacifastacus leniusculus. Journal of General Virology, 2006, 87, 847-854.	2.9	74
68	A plasma protein isolated from brown shrimp (Penaeus californiensis) which enhances the activation of prophenoloxidase system by Î²-1,3-glucan. Developmental and Comparative Immunology, 1996, 20, 299-306.	2.3	72
69	A Novel Protein Acts as a Negative Regulator of Prophenoloxidase Activation and Melanization in the Freshwater Crayfish Pacifastacus leniusculus. Journal of Biological Chemistry, 2009, 284, 6301-6310.	3.4	71
70	Immune properties of invertebrate phenoloxidases. Developmental and Comparative Immunology, 2021, 122, 104098.	2.3	71
71	Interaction of Vibrio spp. with the Inner Surface of the Digestive Tract of Penaeus monodon. PLoS ONE, 2015, 10, e0135783.	2.5	68
72	Attachment of phenoloxidase to fungal cell walls in arthropod immunity. Journal of Invertebrate Pathology, 1979, 34, 285-294.	3.2	67

#	Article	IF	Citations
73	Two novel ficolinâ€like proteins act as pattern recognition receptors for invading pathogens in the freshwater crayfish Pacifastacus leniusculus. Proteomics, 2011, 11, 2249-2264.	2.2	65
74	Invertebrate Hematopoiesis: An Astakine-Dependent Novel Hematopoietic Factor. Journal of Immunology, 2011, 186, 2073-2079.	0.8	65
75	The ?-1,3-glucan-binding protein from the crayfish Pacifastacus leniusculus, when reacted with a ?-1,3-glucan, induces spreading and degranulation of crayfish granular cells. Cell and Tissue Research, 1991, 266, 491-497.	2.9	64
76	Repeated zoospore emergence in Saprolegnia parasitica. Mycological Research, 1994, 98, 810-815.	2.5	61
77	Purification and cDNA Cloning of Ferritin from the Hepatopancreas of the Freshwater Crayfish Pacifastacus leniusculus. FEBS Journal, 1996, 236, 450-456.	0.2	61
78	Molecular cloning and characterization of tiger shrimp (Penaeus monodon) transglutaminase. Developmental and Comparative Immunology, 2004, 28, 279-294.	2.3	61
79	Hemocyteâ€lineage marker proteins in a crustacean, the freshwater crayfish, Pacifastacus leniusculus. Proteomics, 2008, 8, 4226-4235.	2.2	61
80	Ancient Cytokines, the Role of Astakines as Hematopoietic Growth Factors. Journal of Biological Chemistry, 2010, 285, 28577-28586.	3.4	61
81	The cytotoxic reaction of hemocytes from the freshwater crayfish, Astacus astacus. Cellular Immunology, 1985, 94, 326-332.	3.0	60
82	Amino acid sequence around the thiolester of Î±2-macroglobulin from plasma of the crayfish,Pacifastacus leniusculus. FEBS Letters, 1989, 254, 111-114.	2.8	60
83	Purification and partial characterization of a beta-1,3-glucan-binding-protein membrane receptor from blood cells of the crayfish Pacifastacus leniusculus. FEBS Journal, 1992, 207, 223-228.	0.2	60
84	Role of Adhesion in Arthropod Immune Recognition. Annual Review of Entomology, 2010, 55, 485-504.	11.8	59
85	White spot syndrome virus (WSSV) interaction with crayfish haemocytes. Fish and Shellfish Immunology, 2006, 20, 718-727.	3.6	58
86	Crayfish immunity â€“ Recent findings. Developmental and Comparative Immunology, 2018, 80, 94-98.	2.3	58
87	Saprolegnia parasitica and its virulence on three different species of freshwater crayfish. Aquaculture, 1994, 120, 219-228.	3.5	57
88	Variable immune molecules in invertebrates. Journal of Experimental Biology, 2013, 216, 4313-4319.	1.7	57
89	RNA interference of Hemolin causes depletion of phenoloxidase activity in Hyalophora cecropia. Developmental and Comparative Immunology, 2007, 31, 571-575.	2.3	56
90	Biochemical and molecular aspects of cellular communication in arthropods. Bollettino Di Zoologia, 1992, 59, 141-151.	0.3	54

#	Article	IF	Citations
91	Molecular cloning of a Î²-glucan pattern-recognition lipoprotein from the white shrimp Penaeus (Litopenaeus) vannamei: correlations between the deduced amino acid sequence and the native protein structure. Developmental and Comparative Immunology, 2004, 28, 713-726.	2.3	54
92	Identification and properties of a receptor for the invertebrate cytokine astakine, involved in hematopoiesis. Experimental Cell Research, 2009, 315, 1171-1180.	2.6	54
93	A Novel 43-kDa Protein as a Negative Regulatory Component of Phenoloxidase-induced Melanin Synthesis. Journal of Biological Chemistry, 2005, 280, 24744-24751.	3.4	53
94	Of Two Cytosolic Aconitases Expressed in Drosophila, Only One Functions as an Iron-regulatory Protein. Journal of Biological Chemistry, 2006, 281, 18707-18714.	3.4	53
95	In vitro effects on bacterial growth of phenoloxidase reaction products. Journal of Invertebrate Pathology, 2010, 103, 21-23.	3.2	53
96	Hemocyte lysate enhancement of fungal spore encapsulation by crayfish hemocytes. Developmental and Comparative Immunology, 1984, 8, 23-29.	2.3	52
97	A single WAP domain-containing protein from Litopenaeus vannamei hemocytes. Biochemical and Biophysical Research Communications, 2004, 314, 681-687.	2.1	51
98	A Synthetic Peptidoglycan Fragment as a Competitive Inhibitor of the Melanization Cascade. Journal of Biological Chemistry, 2006, 281, 7747-7755.	3.4	50
99	A peptide containing the cell adhesion sequence RGD can mediate degranulation and cell adhesion of crayfish granular haemocytes in vitro. Insect Biochemistry, 1989, 19, 573-579.	1.8	49
100	Isolation of Saprolegnia parasitica from the crayfish Astacus leptodactylus. Aquaculture, 1991, 92, 121-125.	3.5	49
101	Invertebrate Hematopoiesis: An Anterior Proliferation Center As a Link Between the Hematopoietic Tissue and the Brain. Stem Cells and Development, 2012, 21, 3173-3186.	2.1	49
102	Drosophilaferritin mRNA: alternative RNA splicing regulates the presence of the iron-responsive element. FEBS Letters, 1998, 436, 476-482.	2.8	48
103	An MBL-like protein may interfere with the activation of the proPO-system, an important innate immune reaction in invertebrates. Immunobiology, 2013, 218, 159-168.	1.9	48
104	Properties of Extracellular Enzymes from Aphanomyces astaci and Their Relevance in the Penetration Process of Crayfish Cuticle. Physiologia Plantarum, 1975, 35, 140-146.	5.2	47
105	RAPD evidence for the origin of crayfish plague outbreaks in Britain. Aquaculture, 1997, 157, 181-185.	3.5	47
106	Purification of properoxinectin, a myeloperoxidase homologue and its activation to a cell adhesion molecule. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 87-93.	2.4	47
107	Characterisation of a serine proteinase from Penaeus vannamei haemocytes. Fish and Shellfish Immunology, 2005, 18, 101-108.	3.6	46
108	Purification and properties of a protease inhibitor from crayfish hemolymph. Journal of Invertebrate Pathology, 1982, 39, 29-37.	3.2	45

#	Article	IF	Citations
109	Protease, phenoloxidase and pectinase activities in mycorrhizal fungi. Transactions of the British Mycological Society, 1983, 81, 157-161.	0.6	45
110	Characterization of two crustin antimicrobial peptides from the freshwater crayfish Pacifastacus leniusculus. Journal of Invertebrate Pathology, 2010, 104, 234-238.	3.2	45
111	An insect TEP in a crustacean is specific for cuticular tissues and involved in intestinal defense. Insect Biochemistry and Molecular Biology, 2012, 42, 71-80.	2.7	45
112	Beetle Immunity. Advances in Experimental Medicine and Biology, 2010, 708, 163-180.	1.6	44
113	Crayfish Î±-macroglobulin and 76 kDa protein; Their biosynthesis and subcellular localization of the 76 kDa protein. Journal of Insect Physiology, 1992, 38, 987-995.	2.0	41
114	Peptidoglycan activation of the proPO-system without a peptidoglycan receptor protein (PGRP)?. Developmental and Comparative Immunology, 2011, 35, 51-61.	2.3	41
115	Isolation and characterization of a hemagglutinin with affinity for lipopolysaccharides from plasma of the crayfish Pacifastacus leniusculus. Developmental and Comparative Immunology, 1993, 17, 407-418.	2.3	40
116	Identification and cloning of an integrin Î² subunit from hemocytes of the freshwater crayfishPacifastacus leniusculus. , 1997, 277, 255-261.		40
117	An atypical Iron-Responsive Element (IRE) within crayfish ferritin mRNA and an Iron Regulatory Protein 1 (IRP1)-like protein from crayfish hepatopancreas. Insect Biochemistry and Molecular Biology, 1999, 29, 1-9.	2.7	37
118	Physiological and genetic characterisation of some new Aphanomyces strains isolated from freshwater crayfish. Veterinary Microbiology, 2004, 104, 103-112.	1.9	37
119	The stressâ€“immunity axis in shellfish. Journal of Invertebrate Pathology, 2021, 186, 107492.	3.2	37
120	Caspase-1-Like Regulation of the proPO-System and Role of ppA and Caspase-1-Like Cleaved Peptides from proPO in Innate Immunity. PLoS Pathogens, 2014, 10, e1004059.	4.7	36
121	The effect of the fungal toxin destruxin E on isolated crayfish haemocytes. Journal of Insect Physiology, 1990, 36, 785-789.	2.0	35
122	Î²-1,3-glucan-binding Proteins From Plasma of the Fresh-water Crayfishes Astacus Astacus and Procambarus Clarkii. Journal of Crustacean Biology, 1993, 13, 403-408.	0.8	35
123	Melanization and Pathogenicity in the Insect, Tenebrio molitor, and the Crustacean, Pacifastacus leniusculus, by Aeromonas hydrophila AH-3. PLoS ONE, 2010, 5, e15728.	2.5	35
124	Isolation of a 90kDa protein from haemocytes of Blaberus craniifer which has similar functional and immunological properties to the 76 kDa protein from crayfish haemocytes. Journal of Insect Physiology, 1991, 37, 627-634.	2.0	34
125	A gC1qR Prevents White Spot Syndrome Virus Replication in the Freshwater Crayfish Pacifastacus leniusculus. Journal of Virology, 2010, 84, 10844-10851.	3.4	34
126	Reactive Oxygen Species Affect Transglutaminase Activity and Regulate Hematopoiesis in a Crustacean. Journal of Biological Chemistry, 2016, 291, 17593-17601.	3.4	34

#	Article	IF	Citations
127	An ancient cytokine, astakine, mediates circadian regulation of invertebrate hematopoiesis. Cellular and Molecular Life Sciences, 2011, 68, 315-323.	5.4	33
128	Psorospermium haeckeli and its interaction with the crayfish defence system. Aquaculture, 1993, 117, 205-213.	3.5	32
129	Inflammation in Arthropods. Current Pharmaceutical Design, 2010, 16, 4166-4174.	1.9	32
130	Chemotaxis in Aphanomyces astaci, an arthropod-parasitic fungus. Journal of Invertebrate Pathology, 1984, 43, 278-281.	3.2	31
131	THE EFFECTS OF Î²1,3-GLUCANS ON BLOOD COAGULATION AND AMEBOCYTE RELEASE IN THE HORSESHOE CRAB,LIMULUS POLYPHEMUS. Biological Bulletin, 1985, 169, 661-674.	1.8	31
132	Purification of prophenol oxidase from Daucus carota cell cultures. Phytochemistry, 1989, 28, 1805-1808.	2.9	31
133	A Novel 40-kDa Protein Containing Six Repeats of an Epidermal Growth Factor-Like Domain Functions as a Pattern Recognition Protein for Lipopolysaccharide. Journal of Immunology, 2006, 177, 1838-1845.	0.8	31
134	Isolation and Partial Purification of Prophenoloxidase from Daucus carota L. Cell Cultures. Plant Physiology, 1985, 78, 730-733.	4.8	30
135	Î²-Thymosins and Hemocyte Homeostasis in a Crustacean. PLoS ONE, 2013, 8, e60974.	2.5	29
136	Î²-1,3-Glucan enhancement of protease activity in crayfish hemocyte lysate. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1983, 74, 221-224.	0.2	28
137	Characterization of a hemocyte intracellular fatty acid-binding protein from crayfish (Pacifastacus) Tj ETQq1 1 0.784314 rgBT /Overlo	4.7	28
138	A Novel Viral Responsive Protein Is Involved in Hemocyte Homeostasis in the Black Tiger Shrimp, Penaeus monodon. Journal of Biological Chemistry, 2010, 285, 21467-21477.	3.4	28
139	Prevention of transmission of the crayfish plague fungus (Aphanomyces astaci) to the freshwater crayfish Astacus astacus by treatment with MgCl2. Aquaculture, 1992, 104, 11-18.	3.5	27
140	Clotting protein â€“ An extracellular matrix (ECM) protein involved in crustacean hematopoiesis. Developmental and Comparative Immunology, 2018, 78, 132-140.	2.3	25
141	Isolation of cDNA encoding a novel serpin of crayfish hemocytes. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1995, 112, 385-391.	1.6	24
142	Enteric Bacteria Counteract Lipopolysaccharide Induction of Antimicrobial Peptide Genes. Journal of Immunology, 2001, 167, 6920-6923.	0.8	24
143	High sequence variability among hemocyte-specific Kazal-type proteinase inhibitors in decapod crustaceans. Developmental and Comparative Immunology, 2010, 34, 69-75.	2.3	24
144	A calreticulin/gC1qR complex prevents cells from dying: a conserved mechanism from arthropods to humans. Journal of Molecular Cell Biology, 2013, 5, 120-131.	3.3	24

#	Article	IF	Citations
145	Intracellular signaling in arthropod blood cells: Involvement of protein kinase c and protein tyrosine phosphorylation in the response to the 76-kDa protein or the Î²-1,3-glucan-binding protein in crayfish. Developmental and Comparative Immunology, 1993, 17, 495-500.	2.3	23
146	Characterization of a cold-active transglutaminase from a crayfish, Pacifastacus leniusculus. Fish and Shellfish Immunology, 2018, 80, 546-549.	3.6	23
147	Crayfish Î±-macroglobulin as a substrate for transglutaminases. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1994, 108, 65-72.	0.2	22
148	Expression of immune-related genes in one phase of embryonic development of freshwater crayfish, Pacifastacus leniusculus. Fish and Shellfish Immunology, 2010, 28, 649-653.	3.6	22
149	Molecular Cloning and Characterization of Two Serine Proteinase Genes from the Crayfish Plague Fungus, Aphanomyces astaci. Journal of Invertebrate Pathology, 2001, 77, 206-216.	3.2	21
150	Isolation and properties of beta-glucan synthetase from the aquatic fungus, Aphanomyces astaci. Physiologia Plantarum, 1984, 60, 247-252.	5.2	20
151	METABOLISM OF MANNITOL IN MYCORRHIZAL AND NON-MYCORRHIZAL FUNGI. New Phytologist, 1987, 105, 281-287.	7.3	20
152	Environmental concentrations of sulfamethoxazole increase crayfish Pacifastacus leniusculus susceptibility to White Spot Syndrome Virus. Fish and Shellfish Immunology, 2020, 102, 177-184.	3.6	20
153	Purification of a Trypsin Inhibitor Secreted by Embryogenic Carrot Cells. Plant Physiology, 1987, 84, 197-200.	4.8	18
154	Role of astakine1 in regulating transglutaminase activity. Developmental and Comparative Immunology, 2017, 76, 77-82.	2.3	18
155	The effect of temperature on bacteria-host interactions in the freshwater crayfish, Pacifastacus leniusculus. Journal of Invertebrate Pathology, 2018, 157, 67-73.	3.2	18
156	PHENYLALANINE AMMONIA LYASE AND PEROXIDASE ACTIVITY IN MYCORRHIZAL AND NONMYCORRHIZAL SHORT ROOTS OF SCOTS PINE, PINUS SYLVESTRIS L.. New Phytologist, 1985, 101, 487-494.	7.3	17
157	Recombinant Drosophila prophenoloxidase 1 is sequentially cleaved by Î±-chymotrypsin during inÂvitro activation. Biochimie, 2014, 102, 154-165.	2.6	16
158	PDGF/VEGF-Related Receptor Affects Transglutaminase Activity to Control Cell Migration During Crustacean Hematopoiesis. Stem Cells and Development, 2017, 26, 1449-1459.	2.1	16
159	A mammalian like interleukin-1 receptor-associated kinase 4 (IRAK-4), a TIR signaling mediator in intestinal innate immunity of black tiger shrimp (Penaeus monodon). Biochemical and Biophysical Research Communications, 2012, 417, 623-629.	2.1	15
160	Transglutaminase inhibition stimulates hematopoiesis and reduces aggressive behavior of crayfish, Pacifastacus leniusculus. Journal of Biological Chemistry, 2019, 294, 708-715.	3.4	15
161	Comparison of peptidase activities in some fungi pathogenic to arthropods. Journal of Invertebrate Pathology, 1984, 44, 342-348.	3.2	14
162	The effect of temperature on white spot disease progression in a crustacean, Pacifastacus leniusculus. Developmental and Comparative Immunology, 2018, 89, 7-13.	2.3	13

#	Article	IF	Citations
163	Protease activities in non-embryogenic and embryogenic carrot cell strains during callus growth and embryo formation. Physiologia Plantarum, 1984, 62, 458-464.	5.2	12
164	The crayfish pathogen Psorospermium haeckeli activates the prophenoloxidase activating system of freshwater crayfish in vitro. Aquaculture, 1991, 99, 225-233.	3.5	12
165	Crustacean Immunity and Complement; a Premature Comparison?. American Zoologist, 1995, 35, 60-67.	0.7	12
166	Astakine 2â€"the Dark Knight Linking Melatonin to Circadian Regulation in Crustaceans. PLoS Genetics, 2013, 9, e1003361.	3.5	12
167	Hijacking of Host Calreticulin is Required for the White Spot Syndrome Virus Replication Cycle.. Journal of Virology, 2014, 88, JVI.01014-14.	3.4	12
168	Transfection of crayfish hematopoietic tissue cells. Developmental and Comparative Immunology, 2018, 88, 70-76.	2.3	12
169	Transglutaminase 1 and 2 are localized in different blood cells in the freshwater crayfish Pacifastacus leniusculus. Fish and Shellfish Immunology, 2020, 104, 83-91.	3.6	12
170	The N-terminal peptide generated after activation of prophenoloxidase affects crayfish hematopoiesis. Developmental and Comparative Immunology, 2020, 108, 103687.	2.3	12
171	Isolation of Trichosporon beigelii from the freshwater crayfish Astacus astacus. Aquaculture, 1993, 116, 25-31.	3.5	11
172	Existence of Prophenoloxidase in Wing Discs: A Source of Plasma Prophenoloxidase in the Silkworm, Bombyx mori. PLoS ONE, 2012, 7, e41416.	2.5	11
173	Î±2-macroglobulin-like activity in plasma of the crayfish Pacifastacus leniusculus. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1985, 81, 833-835.	0.2	10
174	The bee venom melittin induces lysis of arthropod granular cells and inhibits activation of the prophenoloxidase-activating system. FEBS Letters, 1985, 192, 109-112.	2.8	10
175	Using PRINS for gene mapping in polytene chromosomes. Chromosome Research, 1997, 5, 463-465.	2.2	10
176	Aphanomyces astaci and Crustaceans. , 0, , 425-433.		10
177	Characterization of a hemocyte homeostasis-associated-like protein (HHAP) in the freshwater crayfish Pacifastacus leniusculus. Fish and Shellfish Immunology, 2016, 58, 429-435.	3.6	10
178	Gut microbiome alterations in the crustacean Pacifastacus leniusculus exposed to environmental concentrations of antibiotics and effects on susceptibility to bacteria challenges. Developmental and Comparative Immunology, 2022, 126, 104181.	2.3	10
179	Protein and nucleic acid synthesis during germination of the asexual spores of the aquatic fungus, Aphanomyces astaci. Physiologia Plantarum, 1983, 58, 13-17.	5.2	9
180	MANNITOL DOES NOT INHIBIT GLYCOLYTIC ENZYMES IN ROOTS OF PINUS SYLVESTRIS AND FAGUS ORIENTALIS. New Phytologist, 1986, 102, 285-291.	7.3	9

#	Article	IF	Citations
181	A Pacifastacus leniusculus serine protease interacts with WSSV. Fish and Shellfish Immunology, 2017, 68, 211-219.	3.6	9
182	Vibrio areninigrae as a pathogenic bacterium in a crustacean. Journal of Invertebrate Pathology, 2021, 178, 107517.	3.2	9
183	Early Changes in Crayfish Hemocyte Proteins after Injection with a Î²-1,3-glucan, Compared to Saline Injected and Naive Animals. International Journal of Molecular Sciences, 2021, 22, 6464.	4.1	9
184	Mannitol metabolism in the ectomycorrhizal basidiomycete Piloderma croceum during glucose utilization. A 13C NMR study. Agriculture, Ecosystems and Environment, 1990, 28, 409-414.	5.3	8
185	emergence and oospore formation inAphanomycesspp.. Pest Management Science, 1992, 36, 189-194.	0.4	8
186	Proteinase inhibitory activities of two two-domain Kazal proteinase inhibitors from the freshwater crayfish Pacifastacus leniusculus and the importance of the P2 position in proteinase inhibitory activity. Fish and Shellfish Immunology, 2010, 29, 716-723.	3.6	8
187	Prophenoloxidase Activating System and Its Role in Cellular Communication. , 1993, , 113-129.		8
188	Purification and Some Properties of a Daucus carota Lectin which Enhances the Activation of Prophenoloxidase by CaCl₂. Plant Physiology, 1990, 93, 657-661.	4.8	7
189	A transcription factor glial cell missing (Gcm) in the freshwater crayfish Pacifastacus leniusculus. Developmental and Comparative Immunology, 2020, 113, 103782.	2.3	7
190	Arthropoda: Pattern Recognition Proteins in Crustacean Immunity. , 2018, , 213-224.		6
191	Phenoloxidase activity in Daucus carota is restricted to embryogenie cultures. FEBS Letters, 1985, 187, 295-298.	2.8	5
192	Biological and Immunological Aspects of Innate Defence Mechanisms Activated by (1,3)-Î²-Glucans and Related Polysaccharides in Invertebrates. , 2009, , 563-577.		5
193	Invertebrate immunity. Preface. Advances in Experimental Medicine and Biology, 2010, 708, vii-ix.	1.6	5
194	Astakine1 forms protein complex in plasma. Fish and Shellfish Immunology, 2019, 94, 66-71.	3.6	4
195	THERMOLYSIN DAMAGES ANIMAL LIFE THROUGH DEGRADATION OF PLASMA PROTEINS ENHANCED BY RAPID CLEAVAGE OF SERPINS AND ACTIVATION OF PROTEASES. Archives of Insect Biochemistry and Physiology, 2015, 88, 64-84.	1.5	3
196	Identification and cloning of an integrin Î² subunit from hemocytes of the freshwater crayfish Pacifastacus leniusculus. The Journal of Experimental Zoology, 1997, 277, 255-261.	1.4	3
197	Crustacean blood cell cultures; a new tool for immune studies and parasite-host interactions. Fisheries Science, 2002, 68, 1116-1118.	1.6	2
198	Pefabloc â€“ A sulfonyl fluoride serine protease inhibitor blocks induction of Diptericin in Drosophila l(2)mbn cells. Insect Science, 2012, 19, 472-476.	3.0	2

#	Article	IF	Citations
199	Prophenoloxidase-activating Enzyme. , 2013, , 3068-3074.		2
200	Isolation and properties of a protease inhibitor in crayfish (Astacus astacus) cuticle. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1983, 76, 699-702.	0.2	1
201	Introduction for special issue: Antiviral immunity in invertebrates. Developmental and Comparative Immunology, 2021, 122, 104115.	2.3	1
202	A calreticulin/gC1qR complex prevents cells from dying: a conserved mechanism from arthropods to humans. Journal of Molecular Cell Biology, 2014, 6, 535-536.	3.3	0
203	Announcing the appointment of Mike Belosevic as Coeditor-in-Chief. Developmental and Comparative Immunology, 2016, 55, A1.	2.3	0