Kenneth Sderhll

List of Publications by Citations

203 papers	15,819 citations	67 h-index	121 g-index
207 ext. papers	17,236 ext. citations	4.7 avg, IF	6.67 L-index

#	Paper	IF	Citations
203	The prophenoloxidase-activating system in invertebrates. *Immunological Reviews*, **2004**, 198, 116-26	11.3	1175
202	Role of the prophenoloxidase-activating system in invertebrate immunity. *Current Opinion in Immunology*, **1998**, 10, 23-8	7.8	1018
201	The proPO-system: pros and cons for its role in invertebrate immunity. *Trends in Immunology*, **2008**, 29, 263-71	14.4	809
200	Cell-mediated immunity in arthropods: hematopoiesis, coagulation, melanization and opsonization. *Immunobiology*, **2006**, 211, 213-36	3.4	581
199	Separation of the haemocyte populations of Carcinus maenas and other marine decapods, and prophenoloxidase distribution. *Developmental and Comparative Immunology*, **1983**, 7, 229-39	3.2	517
198	Crustacean haemocytes and haematopoiesis. *Aquaculture*, **2000**, 191, 45-52	4.4	461
197	The proPO and clotting system in crustaceans. *Aquaculture*, **2000**, 191, 53-69	4.4	322
196	Crustacean immunity. *Annual Review of Fish Diseases*, **1992**, 2, 3-23		317
195	Early events in crustacean innate immunity. *Fish and Shellfish Immunology*, **2002**, 12, 421-37	4.3	306
194	Cell adhesion molecules and antioxidative enzymes in a crustacean, possible role in immunity. *Aquaculture*, **1999**, 172, 111-123	4.4	279
193	Coagulation in arthropods: defence, wound closure and healing. *Trends in Immunology*, **2004**, 25, 289-94	14.4	260
192	Proteolytic cascades and their involvement in invertebrate immunity. *Trends in Biochemical Sciences* , **2010**, 35, 575-83	10.3	240
191	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, 661-72	3.2	232
190	A lipopolysaccharide- and beta-1,3-glucan-binding protein from hemocytes of the freshwater crayfish Pacifastacus leniusculus. Purification, characterization, and cDNA cloning. *Journal of Biological Chemistry*, **2000**, 275, 1337-43	5.4	223
189	Antilipopolysaccharide factor interferes with white spot syndrome virus replication in vitro and in vivo in the crayfish Pacifastacus leniusculus. *Journal of Virology*, **2006**, 80, 10365-71	6.6	201
188	A comparison of phenoloxidase activity in the blood of marine invertebrates. *Developmental and Comparative Immunology*, **1991**, 15, 251-61	3.2	197
187	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	5.4	171

186	Processing of an antibacterial peptide from hemocyanin of the freshwater crayfish Pacifastacus leniusculus. *Journal of Biological Chemistry*, **2003**, 278, 7927-33	5.4	171
185	Studies on prophenoloxidase and protease activity of Blaberus craniifer haemocytes. *Insect Biochemistry*, **1985**, 15, 803-810		167
184	Fungal cell wall beta-1,3-glucans induce clotting and phenoloxidase attachment to foreign surfaces of crayfish hemocyte lysate. *Developmental and Comparative Immunology*, **1981**, 5, 565-73	3.2	167
183	Molecular control of phenoloxidase-induced melanin synthesis in an insect. *Journal of Biological Chemistry*, **2008**, 283, 25316-25323	5.4	161
182	Ł, 3 GLUCAN ACTIVATION OF CRUSTACEAN HEMOCYTESIN VITROANDIN VIVO. *Biological Bulletin*, **1983**, 164, 299-314	1.5	161
181	An ancient role for a prokineticin domain in invertebrate hematopoiesis. *Journal of Immunology*, **2005**, 174, 6153-60	5.3	150
180	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, 406-14	3.2	142
179	The prophenoloxidase activating system and its role in invertebrate defence. *Annals of the New York Academy of Sciences*, **1994**, 712, 155-61	6.5	139
178	Properties of the prophenoloxidase activating enzyme of the freshwater crayfish, Pacifastacus leniusculus. *FEBS Journal*, **2001**, 268, 895-902		135
177	Purification of prophenoloxidase from crayfish blood cells, and its activation by an endogenous serine proteinase. *Insect Biochemistry*, **1991**, 21, 363-373		133
176	Characterization of a pattern recognition protein, a masquerade-like protein, in the freshwater crayfish Pacifastacus leniusculus. *Journal of Immunology*, **2001**, 166, 7319-26	5.3	123
175	A three-step proteolytic cascade mediates the activation of the peptidoglycan-induced toll pathway in an insect. *Journal of Biological Chemistry*, **2008**, 283, 7599-607	5.4	117
174	Antiviral immunity in crustaceans. *Fish and Shellfish Immunology*, **2009**, 27, 79-88	4.3	114
173	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	2.6	114
172	Proteolytic cascade for the activation of the insect toll pathway induced by the fungal cell wall component. *Journal of Biological Chemistry*, **2009**, 284, 19474-81	5.4	111
171	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	5.4	110
170	Molecular cloning and characterization of prophenoloxidase in the black tiger shrimp, Penaeus monodon. *Developmental and Comparative Immunology*, **1999**, 23, 179-86	3.2	110
169	Opsonic activity of cell adhesion proteins and beta-1,3-glucan binding proteins from two crustaceans. *Developmental and Comparative Immunology*, **1994**, 18, 3-12	3.2	109

168	Physiological adaptation of an Aphanomyces astaci strain isolated from the freshwater crayfish Procambarus clarkii. *Mycological Research*, **1995**, 99, 574-578		107
167	Host prophenoloxidase expression in freshwater crayfish is linked to increased resistance to the crayfish plague fungus, Aphanomyces astaci. *Cellular Microbiology*, **2003**, 5, 353-7	3.9	106
166	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	3.2	104
165	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, 265-75	4.3	100
164	A beta-1,3-glucan binding protein from the black tiger shrimp, Penaeus monodon. *Developmental and Comparative Immunology*, **2002**, 26, 237-45	3.2	100
163	Processing of crayfish hemocyanin subunits into phenoloxidase. *Biochemical and Biophysical Research Communications*, **2004**, 322, 490-6	3.4	95
162	Phylogenetic relationships among plant and animal parasites, and saprotrophs in Aphanomyces (Oomycetes). *Fungal Genetics and Biology*, **2009**, 46, 365-76	3.9	93
161	Bacteria-Induced Dscam Isoforms of the Crustacean, Pacifastacus leniusculus. *PLoS Pathogens*, **2011**, 7, e1002062	7.6	93
160	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	4.9	92
159	Characterization of a clotting protein, isolated from plasma of the freshwater crayfish Pacifastacus leniusculus. *FEBS Journal*, **1993**, 213, 591-7		91
158	The properties and purification of a Blaberus craniifer plasma protein which enhances the activation of haemocyte prophenoloxidase by a □1,3-glucan. *Insect Biochemistry*, **1988**, 18, 323-330		91
157	A cell adhesion factor from crayfish haemocytes has degranulating activity towards crayfish granular cells. *Insect Biochemistry*, **1989**, 19, 183-190		87
156	Soluble fragments from fungal cell walls elicit defence reactions in crayfish. *Nature*, **1977**, 267, 45-6	50.4	87
155	Analysis of genetic diversity in the crayfish plague fungus, Aphanomyces astaci, by random amplification of polymorphic DNA. *Aquaculture*, **1994**, 126, 1-9	4.4	85
154	Microarray analysis of immune challenged Drosophila hemocytes. *Experimental Cell Research*, **2005**, 305, 145-55	4.2	81
153	Carbohydrate and Amino Acid Metabolism in the Ectomycorrhizal Ascomycete Sphaerosporella brunnea during Glucose Utilization : A C NMR Study. *Plant Physiology*, **1988**, 86, 935-40	6.6	81
152	Hindgut innate immunity and regulation of fecal microbiota through melanization in insects. *Journal of Biological Chemistry*, **2012**, 287, 14270-9	5.4	79
151	A cell adhesion protein from the crayfish Pacifastacus leniusculus, a serine proteinase homologue similar to Drosophila masquerade. *Journal of Biological Chemistry*, **2000**, 275, 9996-10001	5.4	78

150	The effect of endogeneous proteinase inhibitors on the prophenoloxidase activating enzyme, a serine proteinase from crayfish haemocytes. *Insect Biochemistry*, **1990**, 20, 485-492		78
149	Purification and characterization of a prophenoloxidase activating enzyme from crayfish blood cells. *Insect Biochemistry*, **1990**, 20, 709-718		77
148	1,3-Glucan induced cellular defence reactions in the shore crab, Carcinus maenas. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1984**, 77, 635-639		77
147	A highly virulent pathogen, Aeromonas hydrophila, from the freshwater crayfish Pacifastacus leniusculus. *Journal of Invertebrate Pathology*, **2009**, 101, 56-66	2.6	76
146	Peptidoglycan recognition proteins involved in 1,3-beta-D-glucan-dependent prophenoloxidase activation system of insect. *Journal of Biological Chemistry*, **2004**, 279, 3218-27	5.4	75
145	Carbon and nitrogen metabolism in ectomycorrhizal fungi and ectomycorrhizas. *Biochimie*, **1987**, 69, 569-81	4.6	74
144	Characterization and properties of a 1,3-beta-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, 42072-9	5.4	73
143	A plasma protein isolated from brown shrimp (Penaeus californiensis) which enhances the activation of prophenoloxidase system by beta-1,3-glucan. *Developmental and Comparative Immunology*, **1996**, 20, 299-306	3.2	71
142	Coagulation in invertebrates. *Journal of Innate Immunity*, **2011**, 3, 3-8	6.9	70
141	Transglutaminase activity in the hematopoietic tissue of a crustacean, Pacifastacus leniusculus, importance in hemocyte homeostasis. *BMC Immunology*, **2008**, 9, 58	3.7	70
140	The prophenoloxidase activating system in crayfish. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1984**, 77, 21-26		70
139	Re-evaluation of the enigmatic species complex Saprolegnia diclina-Saprolegnia parasitica based on morphological, physiological and molecular data. *Fungal Genetics and Biology*, **2007**, 44, 585-601	3.9	69
138	Expression of immune-related genes in larval stages of the giant tiger shrimp, Penaeus monodon. *Fish and Shellfish Immunology*, **2007**, 23, 815-24	4.3	69
137	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	4.9	67
136	Purification and cDNA cloning of a four-domain Kazal proteinase inhibitor from crayfish blood cells. *FEBS Journal*, **1994**, 223, 389-94		67
135	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	4.2	59
134	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, 6301-10	5.4	58
133	Molecular cloning and characterization of tiger shrimp (Penaeus monodon) transglutaminase. *Developmental and Comparative Immunology*, **2004**, 28, 279-94	3.2	58

132	Two novel ficolin-like proteins act as pattern recognition receptors for invading pathogens in the freshwater crayfish Pacifastacus leniusculus. *Proteomics*, **2011**, 11, 2249-64	4.8	57
131	Attachment of phenoloxidase to fungal cell walls in arthropod immunity. *Journal of Invertebrate Pathology*, **1979**, 34, 285-294	2.6	57
130	White spot syndrome virus (WSSV) interaction with crayfish haemocytes. *Fish and Shellfish Immunology*, **2006**, 20, 718-27	4.3	56
129	Ancient cytokines, the role of astakines as hematopoietic growth factors. *Journal of Biological Chemistry*, **2010**, 285, 28577-86	5.4	55
128	Variable immune molecules in invertebrates. *Journal of Experimental Biology*, **2013**, 216, 4313-9	3	54
127	Purification and cDNA cloning of ferritin from the hepatopancreas of the freshwater crayfish Pacifastacus leniusculus. *FEBS Journal*, **1996**, 236, 450-6		54
126	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, 223-8		54
125	Amino acid sequence around the thiolester of alpha 2-macroglobulin from plasma of the crayfish, Pacifastacus leniusculus. *FEBS Letters*, **1989**, 254, 111-4	3.8	54
124	Hemocyte-lineage marker proteins in a crustacean, the freshwater crayfish, Pacifastacus leniusculus. *Proteomics*, **2008**, 8, 4226-35	4.8	53
123	Molecular cloning of a beta-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, 713-26	3.2	53
122	The cytotoxic reaction of hemocytes from the freshwater crayfish, Astacus astacus. *Cellular Immunology*, **1985**, 94, 326-32	4.4	53
121	Invertebrate hematopoiesis: an astakine-dependent novel hematopoietic factor. *Journal of Immunology*, **2011**, 186, 2073-9	5.3	52
120	RNA interference of Hemolin causes depletion of phenoloxidase activity in Hyalophora cecropia. *Developmental and Comparative Immunology*, **2007**, 31, 571-5	3.2	51
119	In vitro effects on bacterial growth of phenoloxidase reaction products. *Journal of Invertebrate Pathology*, **2010**, 103, 21-3	2.6	49
118	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		49
117	A novel 43-kDa protein as a negative regulatory component of phenoloxidase-induced melanin synthesis. *Journal of Biological Chemistry*, **2005**, 280, 24744-51	5.4	48
116	Of two cytosolic aconitases expressed in Drosophila, only one functions as an iron-regulatory protein. *Journal of Biological Chemistry*, **2006**, 281, 18707-14	5.4	47
115	Biochemical and molecular aspects of cellular communication in arthropods. *Bollettino Di Zoologia*, **1992**, 59, 141-151		47

114	Hemocyte lysate enhancement of fungal spore encapsulation by crayfish hemocytes. *Developmental and Comparative Immunology*, **1984**, 8, 23-9	3.2	47
113	Identification and properties of a receptor for the invertebrate cytokine astakine, involved in hematopoiesis. *Experimental Cell Research*, **2009**, 315, 1171-80	4.2	46
112	A single WAP domain-containing protein from Litopenaeus vannamei hemocytes. *Biochemical and Biophysical Research Communications*, **2004**, 314, 681-7	3.4	46
111	Interaction of Vibrio spp. with the Inner Surface of the Digestive Tract of Penaeus monodon. *PLoS ONE*, **2015**, 10, e0135783	3.7	46
110	Role of adhesion in arthropod immune recognition. *Annual Review of Entomology*, **2010**, 55, 485-504	21.8	45
109	Repeated zoospore emergence in Saprolegnia parasitica. *Mycological Research*, **1994**, 98, 810-815		45
108	A synthetic peptidoglycan fragment as a competitive inhibitor of the melanization cascade. *Journal of Biological Chemistry*, **2006**, 281, 7747-55	5.4	44
107	Drosophila ferritin mRNA: alternative RNA splicing regulates the presence of the iron-responsive element. *FEBS Letters*, **1998**, 436, 476-82	3.8	43
106	Purification and properties of a protease inhibitor from crayfish hemolymph. *Journal of Invertebrate Pathology*, **1982**, 39, 29-37	2.6	43
105	Properties of Extracellular Enzymes from Aphanomyces astaci and Their Relevance in the Penetration Process of Crayfish Cuticle. *Physiologia Plantarum*, **1975**, 35, 140-146	4.6	42
104	Invertebrate hematopoiesis: an anterior proliferation center as a link between the hematopoietic tissue and the brain. *Stem Cells and Development*, **2012**, 21, 3173-86	4.4	41
103	Crayfish immunity - Recent findings. *Developmental and Comparative Immunology*, **2018**, 80, 94-98	3.2	39
102	RAPD evidence for the origin of crayfish plague outbreaks in Britain. *Aquaculture*, **1997**, 157, 181-185	4.4	39
101	Saprolegnia parasitica and its virulence on three different species of freshwater crayfish. *Aquaculture*, **1994**, 120, 219-228	4.4	39
100	Crayfish □-macroglobulin and 76 kDa protein; Their biosynthesis and subcellular localization of the 76 kDa protein. *Journal of Insect Physiology*, **1992**, 38, 987-995	2.4	39
99	Peptidoglycan activation of the proPO-system without a peptidoglycan receptor protein (PGRP)?. *Developmental and Comparative Immunology*, **2011**, 35, 51-61	3.2	37
98	Characterisation of a serine proteinase from Penaeus vannamei haemocytes. *Fish and Shellfish Immunology*, **2005**, 18, 101-8	4.3	37
97	Protease, phenoloxidase and pectinase activities in mycorrhizal fungi. *Transactions of the British Mycological Society*, **1983**, 81, 157-161		37

96	Identification and cloning of an integrin β subunit from hemocytes of the freshwater crayfish Pacifastacus leniusculus **1997**, 277, 255-261		36
95	Isolation and characterization of a hemagglutinin with affinity for lipopolysaccharides from plasma of the crayfish Pacifastacus leniusculus. *Developmental and Comparative Immunology*, **1993**, 17, 407-18	3.2	36
94	An MBL-like protein may interfere with the activation of the proPO-system, an important innate immune reaction in invertebrates. *Immunobiology*, **2013**, 218, 159-68	3.4	34
93	Characterization of two crustin antimicrobial peptides from the freshwater crayfish Pacifastacus leniusculus. *Journal of Invertebrate Pathology*, **2010**, 104, 234-8	2.6	34
92	β1,3-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	34
91	Isolation of Saprolegnia parasitica from the crayfish Astacus leptodactylus. *Aquaculture*, **1991**, 92, 121-125	4.4	34
90	Beetle immunity. *Advances in Experimental Medicine and Biology*, **2010**, 708, 163-80	3.6	33
89	Purification of properoxinectin, a myeloperoxidase homologue and its activation to a cell adhesion molecule. *Biochimica Et Biophysica Acta - General Subjects*, **2007**, 1770, 87-93	4	33
88	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	2.4	33
87	A gC1qR prevents white spot syndrome virus replication in the freshwater crayfish Pacifastacus leniusculus. *Journal of Virology*, **2010**, 84, 10844-51	6.6	32
86	The effect of the fungal toxin destruxin E on isolated crayfish haemocytes. *Journal of Insect Physiology*, **1990**, 36, 785-789	2.4	32
85	An ancient cytokine, astakine, mediates circadian regulation of invertebrate hematopoiesis. *Cellular and Molecular Life Sciences*, **2011**, 68, 315-23	10.3	30
84	THE EFFECTS OF β1,3-GLUCANS ON BLOOD COAGULATION AND AMEBOCYTE RELEASE IN THE HORSESHOE CRAB,LIMULUS POLYPHEMUS. *Biological Bulletin*, **1985**, 169, 661-674	1.5	30
83	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	4.5	29
82	Physiological and genetic characterisation of some new Aphanomyces strains isolated from freshwater crayfish. *Veterinary Microbiology*, **2004**, 104, 103-12	3.3	29
81	Purification of prophenol oxidase from Daucus carota cell cultures. *Phytochemistry*, **1989**, 28, 1805-1808	4	29
80	A novel viral responsive protein is involved in hemocyte homeostasis in the black tiger shrimp, Penaeus monodon. *Journal of Biological Chemistry*, **2010**, 285, 21467-77	5.4	28
79	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, 1838-45	5.3	28

78	Psorospermium haeckeli and its interaction with the crayfish defence system. *Aquaculture*, **1993**, 117, 205-213	4.4	28
77	Isolation and Partial Purification of Prophenoloxidase from Daucus carota L. Cell Cultures. *Plant Physiology*, **1985**, 78, 730-3	6.6	28
76	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	7.6	27
75	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	4.5	27
74	Reactive Oxygen Species Affect Transglutaminase Activity and Regulate Hematopoiesis in a Crustacean. *Journal of Biological Chemistry*, **2016**, 291, 17593-601	5.4	26
73	Chemotaxis in Aphanomyces astaci, an arthropod-parasitic fungus. *Journal of Invertebrate Pathology*, **1984**, 43, 278-281	2.6	25
72	Melanization and pathogenicity in the insect, Tenebrio molitor, and the crustacean, Pacifastacus leniusculus, by Aeromonas hydrophila AH-3. *PLoS ONE*, **2010**, 5, e15728	3.7	25
71	High sequence variability among hemocyte-specific Kazal-type proteinase inhibitors in decapod crustaceans. *Developmental and Comparative Immunology*, **2010**, 34, 69-75	3.2	23
70	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	4.4	23
69	thymosins and hemocyte homeostasis in a crustacean. *PLoS ONE*, **2013**, 8, e60974	3.7	23
68	Characterization of a hemocyte intracellular fatty acid-binding protein from crayfish (Pacifastacus leniusculus) and shrimp (Penaeus monodon). *FEBS Journal*, **2006**, 273, 2902-12	5.7	22
67	Enteric bacteria counteract lipopolysaccharide induction of antimicrobial peptide genes. *Journal of Immunology*, **2001**, 167, 6920-3	5.3	22
66	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 beta-1,3-glucan-binding protein in crayfish. *Developmental and Comparative Immunology*, **1993**, 17, 495-500	3.2	22
65	A calreticulin/gC1qR complex prevents cells from dying: a conserved mechanism from arthropods to humans. *Journal of Molecular Cell Biology*, **2013**, 5, 120-31	6.3	21
64	Expression of immune-related genes in one phase of embryonic development of freshwater crayfish, Pacifastacus leniusculus. *Fish and Shellfish Immunology*, **2010**, 28, 649-53	4.3	20
63	Isolation of cDNA encoding a novel serpin of crayfish hemocytes. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1995**, 112, 385-91	2.3	19
62	1,3-Glucan enhancement of protease activity in crayfish hemocyte lysate. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1983**, 74, 221-224		19
61	Isolation and properties of glucan synthetase from the aquatic fungus, Aphanomyces astaci. *Physiologia Plantarum*, **1984**, 60, 247-252	4.6	19

60	Purification of a trypsin inhibitor secreted by embryogenic carrot cells. *Plant Physiology*, **1987**, 84, 197-206	6.6	18
59	METABOLISM OF MANNITOL IN MYCORRHIZAL AND NON-MYCORRHIZAL FUNGI. *New Phytologist*, **1987**, 105, 281-287	9.8	17
58	Immune properties of invertebrate phenoloxidases. *Developmental and Comparative Immunology*, **2021**, 122, 104098	3.2	17
57	Characterization of a cold-active transglutaminase from a crayfish, Pacifastacus leniusculus. *Fish and Shellfish Immunology*, **2018**, 80, 546-549	4.3	16
56	Inflammation in arthropods. *Current Pharmaceutical Design*, **2010**, 16, 4166-74	3.3	16
55	Clotting protein - An extracellular matrix (ECM) protein involved in crustacean hematopoiesis. *Developmental and Comparative Immunology*, **2018**, 78, 132-140	3.2	15
54	Molecular cloning and characterization of two serine proteinase genes from the crayfish plague fungus, Aphanomyces astaci. *Journal of Invertebrate Pathology*, **2001**, 77, 206-16	2.6	15
53	PHENYLALANINE AMMONIA LYASE AND PEROXIDASE ACTIVITY IN MYCORRHIZAL AND NONMYCORRHIZAL SHORT ROOTS OF SCOTS PINE, PINUS SYLVESTRIS L. *New Phytologist*, **1985**, 101, 487-494	9.8	15
52	The effect of temperature on bacteria-host interactions in the freshwater crayfish, Pacifastacus leniusculus. *Journal of Invertebrate Pathology*, **2018**, 157, 67-73	2.6	14
51	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, 623-9	3.4	13
50	Comparison of peptidase activities in some fungi pathogenic to arthropods. *Journal of Invertebrate Pathology*, **1984**, 44, 342-348	2.6	13
49	Role of astakine1 in regulating transglutaminase activity. *Developmental and Comparative Immunology*, **2017**, 76, 77-82	3.2	12
48	Hijacking of host calreticulin is required for the white spot syndrome virus replication cycle. *Journal of Virology*, **2014**, 88, 8116-28	6.6	12
47	Recombinant Drosophila prophenoloxidase 1 is sequentially cleaved by α-chymotrypsin during in vitro activation. *Biochimie*, **2014**, 102, 154-65	4.6	12
46	Crayfish α-macroglobulin as a substrate for transglutaminases. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1994**, 108, 65-72		12
45	Protease activities in non-embryogenic and embryogenic carrot cell strains during callus growth and embryo formation. *Physiologia Plantarum*, **1984**, 62, 458-464	4.6	11
44	Transfection of crayfish hematopoietic tissue cells. *Developmental and Comparative Immunology*, **2018**, 88, 70-76	3.2	10
43	PDGF/VEGF-Related Receptor Affects Transglutaminase Activity to Control Cell Migration During Crustacean Hematopoiesis. *Stem Cells and Development*, **2017**, 26, 1449-1459	4.4	10

42	Existence of prophenoloxidase in wing discs: a source of plasma prophenoloxidase in the silkworm, Bombyx mori. *PLoS ONE*, **2012**, 7, e41416	3.7	10
41	Astakine 2--the dark knight linking melatonin to circadian regulation in crustaceans. *PLoS Genetics*, **2013**, 9, e1003361	6	10
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