Eric Peatman

List of Publications by Citations

85 papers	3,726 citations	36 h-index	59 g-index
87 ext. papers	4,263 ext. citations	3.9 avg, IF	5.01 L-index

#	Paper	IF	Citations
85	The channel catfish genome sequence provides insights into the evolution of scale formation in teleosts. *Nature Communications*, **2016**, 7, 11757	17.4	173
84	RNA-seq analysis of mucosal immune responses reveals signatures of intestinal barrier disruption and pathogen entry following Edwardsiella ictaluri infection in channel catfish, Ictalurus punctatus. *Fish and Shellfish Immunology*, **2012**, 32, 816-27	4.3	164
83	Expression analysis of the acute phase response in channel catfish (Ictalurus punctatus) after infection with a Gram-negative bacterium. *Developmental and Comparative Immunology*, **2007**, 31, 1183-96	3.2	157
82	Catfish hepcidin gene is expressed in a wide range of tissues and exhibits tissue-specific upregulation after bacterial infection. *Developmental and Comparative Immunology*, **2005**, 29, 939-50	3.2	150
81	Transcriptomic signatures of attachment, NF-B suppression and IFN stimulation in the catfish gill following columnaris bacterial infection. *Developmental and Comparative Immunology*, **2012**, 38, 169-80	3.2	132
80	Microarray analysis of gene expression in the blue catfish liver reveals early activation of the MHC class I pathway after infection with Edwardsiella ictaluri. *Molecular Immunology*, **2008**, 45, 553-66	4.3	121
79	Generation of genome-scale gene-associated SNPs in catfish for the construction of a high-density SNP array. *BMC Genomics*, **2011**, 12, 53	4.5	118
78	Evolution of CC chemokines in teleost fish: a case study in gene duplication and implications for immune diversity. *Immunogenetics*, **2007**, 59, 613-23	3.2	116
77	RNA-Seq reveals expression signatures of genes involved in oxygen transport, protein synthesis, folding, and degradation in response to heat stress in catfish. *Physiological Genomics*, **2013**, 45, 462-76	3.6	103
76	NOD-like subfamily of the nucleotide-binding domain and leucine-rich repeat containing family receptors and their expression in channel catfish. *Developmental and Comparative Immunology*, **2009**, 33, 991-9	3.2	102
75	Efficient assembly and annotation of the transcriptome of catfish by RNA-Seq analysis of a doubled haploid homozygote. *BMC Genomics*, **2012**, 13, 595	4.5	102
74	Quality assessment parameters for EST-derived SNPs from catfish. *BMC Genomics*, **2008**, 9, 450	4.5	92
73	Toll-like receptor 3 and TICAM genes in catfish: species-specific expression profiles following infection with Edwardsiella ictaluri. *Immunogenetics*, **2006**, 58, 817-30	3.2	89
72	Pathogen recognition receptors in channel catfish: I. Identification, phylogeny and expression of NOD-like receptors. *Developmental and Comparative Immunology*, **2012**, 37, 77-86	3.2	87
71	Pathogen recognition receptors in channel catfish: II. Identification, phylogeny and expression of retinoic acid-inducible gene I (RIG-I)-like receptors (RLRs). *Developmental and Comparative Immunology*, **2012**, 37, 381-9	3.2	81
70	Basal polarization of the mucosal compartment in Flavobacterium columnare susceptible and resistant channel catfish (Ictalurus punctatus). *Molecular Immunology*, **2013**, 56, 317-27	4.3	80
69	Assembly of 500,000 inter-specific catfish expressed sequence tags and large scale gene-associated marker development for whole genome association studies. *Genome Biology*, **2010**, 11, R8	18.3	79

68	Profiling of gene duplication patterns of sequenced teleost genomes: evidence for rapid lineage-specific genome expansion mediated by recent tandem duplications. *BMC Genomics*, **2012**, 13, 246	4.5	71
67	Sequence analysis and expression of a CXC chemokine in resistant and susceptible catfish after infection of Edwardsiella ictaluri. *Developmental and Comparative Immunology*, **2004**, 28, 769-80	3.2	70
66	Evasion of mucosal defenses during Aeromonas hydrophila infection of channel catfish (Ictalurus punctatus) skin. *Developmental and Comparative Immunology*, **2013**, 39, 447-55	3.2	67
65	Putative roles for a rhamnose binding lectin in Flavobacterium columnare pathogenesis in channel catfish Ictalurus punctatus. *Fish and Shellfish Immunology*, **2012**, 33, 1008-15	4.3	65
64	Genomic organization, gene duplication, and expression analysis of interleukin-1beta in channel catfish (Ictalurus punctatus). *Molecular Immunology*, **2006**, 43, 1653-64	4.3	65
63	The two channel catfish intelectin genes exhibit highly differential patterns of tissue expression and regulation after infection with Edwardsiella ictaluri. *Developmental and Comparative Immunology*, **2008**, 32, 693-705	3.2	64
62	Characterization of a NK-lysin antimicrobial peptide gene from channel catfish. *Fish and Shellfish Immunology*, **2006**, 20, 419-26	4.3	63
61	Catfish CC chemokines: genomic clustering, duplications, and expression after bacterial infection with Edwardsiella ictaluri. *Molecular Genetics and Genomics*, **2006**, 275, 297-309	3.1	60
60	Generation and analysis of ESTs from the eastern oyster, Crassostrea virginica Gmelin and identification of microsatellite and SNP markers. *BMC Genomics*, **2007**, 8, 157	4.5	58
59	Characterization and mucosal responses of interleukin 17 family ligand and receptor genes in channel catfish Ictalurus punctatus. *Fish and Shellfish Immunology*, **2014**, 38, 47-55	4.3	49
58	Catfish hybrid Ictalurus punctatus □. furcatus exhibits higher resistance to columnaris disease than the parental species. *Diseases of Aquatic Organisms*, **2012**, 100, 77-81	1.7	48
57	Characterization of a mannose-binding lectin from channel catfish (Ictalurus punctatus). *Research in Veterinary Science*, **2012**, 92, 408-13	2.5	46
56	Chronic exogenous kisspeptin administration accelerates gonadal development in basses of the genus Morone. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2012**, 162, 265-73	2.6	43
55	CC chemokines in zebrafish: evidence for extensive intrachromosomal gene duplications. *Genomics*, **2006**, 88, 381-5	4.3	43
54	Genome-Wide Association Study Reveals Multiple Novel QTL Associated with Low Oxygen Tolerance in Hybrid Catfish. *Marine Biotechnology*, **2017**, 19, 379-390	3.4	42
53	In silico identification and expression analysis of 12 novel CC chemokines in catfish. *Immunogenetics* , **2005**, 57, 409-19	3.2	41
52	Microfibrillar-associated protein 4 (MFAP4) genes in catfish play a novel role in innate immune responses. *Developmental and Comparative Immunology*, **2011**, 35, 568-79	3.2	40
51	Physiology and immunology of mucosal barriers in catfish (Ictalurus spp.). *Tissue Barriers*, **2015**, 3, e1068907	4.3	38

50	Short-term feed deprivation alters immune status of surface mucosa in channel catfish (Ictalurus punctatus). *PLoS ONE*, **2013**, 8, e74581	3.7	36
49	Identification and characterization of full-length cDNAs in channel catfish (Ictalurus punctatus) and blue catfish (Ictalurus furcatus). *PLoS ONE*, **2010**, 5, e11546	3.7	36
48	Mechanisms of pathogen virulence and host susceptibility in virulent Aeromonas hydrophila infections of channel catfish (Ictalurus punctatus). *Aquaculture*, **2018**, 482, 1-8	4.4	35
47	Early mucosal responses in blue catfish (Ictalurus furcatus) skin to Aeromonas hydrophila infection. *Fish and Shellfish Immunology*, **2013**, 34, 920-8	4.3	34
46	L-Rhamnose-binding lectins (RBLs) in channel catfish, Ictalurus punctatus: Characterization and expression profiling in mucosal tissues. *Developmental and Comparative Immunology*, **2014**, 44, 320-31	3.2	34
45	Impact of feed additives on surface mucosal health and columnaris susceptibility in channel catfish fingerlings, Ictalurus punctatus. *Fish and Shellfish Immunology*, **2015**, 46, 624-37	4.3	30
44	Molecular characterization and gene expression of the channel catfish ferritin H subunit after bacterial infection and iron treatment. *Journal of Experimental Zoology*, **2010**, 313, 359-68		28
43	Galectins in channel catfish, Ictalurus punctatus: Characterization and expression profiling in mucosal tissues. *Fish and Shellfish Immunology*, **2016**, 49, 324-35	4.3	26
42	Nutritional impacts on gene expression in the surface mucosa of blue catfish (Ictalurus furcatus). *Developmental and Comparative Immunology*, **2014**, 44, 226-34	3.2	26
41	SNP discovery in wild and domesticated populations of blue catfish, Ictalurus furcatus, using genotyping-by-sequencing and subsequent SNP validation. *Molecular Ecology Resources*, **2014**, 14, 1261-70	8.4	25
40	Discovery and validation of gene-linked diagnostic SNP markers for assessing hybridization between Largemouth bass (Micropterus salmoides) and Florida bass (M. floridanus). *Molecular Ecology Resources*, **2015**, 15, 395-404	8.4	24
39	Molecular characterization of three L-type lectin genes from channel catfish, Ictalurus punctatus and their responses to Edwardsiella ictaluri challenge. *Fish and Shellfish Immunology*, **2012**, 32, 598-608	4.3	24
38	Expression profiling analysis of immune-related genes in channel catfish (Ictalurus punctatus) skin mucus following Flavobacterium columnare challenge. *Fish and Shellfish Immunology*, **2015**, 46, 537-42	4.3	22
37	Rapid development of molecular resources for a freshwater mussel, Villosa lienosa (Bivalvia:Unionidae), using an RNA-seq-based approach. *Freshwater Science*, **2012**, 31, 695-708	2	22
36	Transcriptomic profiling of differential responses to drought in two freshwater mussel species, the giant floater Pyganodon grandis and the pondhorn Uniomerus tetralasmus. *PLoS ONE*, **2014**, 9, e89481	3.7	19
35	Mucosal expression signatures of two Cathepsin L in channel catfish (Ictalurus punctatus) following bacterial challenge. *Fish and Shellfish Immunology*, **2015**, 47, 582-9	4.3	18
34	Effects of CRISPR/Cas9 dosage on TICAM1 and RBL gene mutation rate, embryonic development, hatchability and fry survival in channel catfish. *Scientific Reports*, **2018**, 8, 16499	4.9	18
33	SNP marker panels for parentage assignment and traceability in the Florida bass (Micropterus floridanus). *Aquaculture*, **2018**, 485, 30-38	4.4	17

32	Development of SNP Panels as a New Tool to Assess the Genetic Diversity, Population Structure, and Parentage Analysis of the Eastern Oyster (Crassostrea virginica). *Marine Biotechnology*, **2018**, 20, 385-395	3.4	16
31	Expression profile analysis of two cathepsin S in channel catfish (Ictalurus punctatus) mucosal tissues following bacterial challenge. *Fish and Shellfish Immunology*, **2016**, 48, 112-8	4.3	16
30	Molecular responses of ceruloplasmin to Edwardsiella ictaluri infection and iron overload in channel catfish (Ictalurus punctatus). *Fish and Shellfish Immunology*, **2011**, 30, 992-7	4.3	15
29	Identification and mucosal expression analysis of cathepsin B in channel catfish (Ictalurus punctatus) following bacterial challenge. *Fish and Shellfish Immunology*, **2015**, 47, 751-7	4.3	14
28	Spermatogonial stem cells specific marker identification in channel catfish, Ictalurus punctatus and blue catfish, I. furcatus. *Fish Physiology and Biochemistry*, **2015**, 41, 1545-56	2.7	14
27	More than just antibodies: Protective mechanisms of a mucosal vaccine against fish pathogen Flavobacterium columnare. *Fish and Shellfish Immunology*, **2017**, 71, 160-170	4.3	13
26	Differential gene expression to an LPS challenge in relation to exogenous corticosterone in the invasive cane toad (Rhinella marina). *Developmental and Comparative Immunology*, **2018**, 88, 114-123	3.2	12
25	Antimicrobial activity of the biopolymer chitosan against Streptococcus iniae. *Journal of Fish Diseases*, **2019**, 42, 371-377	2.6	11
24	Transcriptome annotation and marker discovery in white bass (Morone chrysops) and striped bass (Morone saxatilis). *Animal Genetics*, **2014**, 45, 885-7	2.5	11
23	Using species-diagnostic SNPs to detail the distribution and dynamics of hybridized black bass populations in southern Africa. *Biological Invasions*, **2019**, 21, 1499-1509	2.7	10
22	Transcriptome Analysis Reveals Unique Relationships Among Species and Heritage of. *G3: Genes, Genomes, Genetics*, **2019**, 9, 2029-2036	3.2	9
21	Why mucosal health? **2015**, 1-2		9
20	Winter kill in intensively stocked channel catfish (Ictalurus punctatus): Coinfection with Aeromonas veronii, Streptococcus parauberis and Shewanella putrefaciens. *Journal of Fish Diseases*, **2018**, 41, 1339-1347	2.6	9
19	EasyParallel: A GUI platform for parallelization of STRUCTURE and NEWHYBRIDS analyses. *PLoS ONE*, **2020**, 15, e0232110	3.7	8
18	New frontiers in mucosal health in aquaculture **2015**, 371-377		8
17	Species-diagnostic SNP markers for the black basses (Micropterus spp.): a new tool for black bass conservation and management. *Conservation Genetics Resources*, **2020**, 12, 319-328	0.8	8
16	Short-term low salinity mitigates effects of oil and dispersant on juvenile eastern oysters: A laboratory experiment with implications for oil spill response activities. *PLoS ONE*, **2018**, 13, e0203485	3.7	8
15	Evidence that the stress hormone cortisol regulates biofilm formation differently among Flavobacterium columnare isolates. *Veterinary Research*, **2019**, 50, 24	3.8	7

14	Hepatic transcriptomic and metabolic responses of hybrid striped bass (Morone saxatilis♀Morone chrysops) to acute and chronic hypoxic insult. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2016**, 18, 1-9	2	7
13	Influence of native catfish mucus on Flavobacterium columnare growth and proteolytic activity. *Journal of Fish Diseases*, **2018**, 41, 1395-1402	2.6	7
12	Ribosomal protein genes are highly enriched among genes with allele-specific expression in the interspecific F1 hybrid catfish. *Molecular Genetics and Genomics*, **2016**, 291, 1083-93	3.1	5
11	Impact of oral and waterborne administration of rhamnolipids on the susceptibility of channel catfish (Ictalurus punctatus) to Flavobacterium columnare infection. *Fish and Shellfish Immunology*, **2017**, 60, 44-49	4.3	4
10	l-rhamnose-binding lectins (RBLs) in Nile tilapia, Oreochromis niloticus: Characterization and expression profiling in mucosal tissues. *Fish and Shellfish Immunology*, **2018**, 72, 426-435	4.3	4
9	SNP analyses highlight a unique, imperiled southern walleye (Sander vitreus) in the Mobile River Basin. *Canadian Journal of Fisheries and Aquatic Sciences*, **2020**, 77, 1366-1378	2.4	3
8	SNP Genotyping Platforms **2010**, 123-132		3
7	Empirical Evaluation of Oxytetracycline and F1 Genetics to Differentiate Stocked from Wild Largemouth Bass. *North American Journal of Fisheries Management*, **2020**, 40, 713-717	1.1	1
6	The effects of dietary inclusion of a Saccharomyces cerevisiae fermentation product in a commercial catfish ration on growth, immune readiness, and columnaris disease susceptibility. *Journal of Applied Aquaculture*, **2019**, 31, 193-209	0.8	1
5	Proteome analysis of virulent Aeromonas hydrophila reveals the upregulation of iron acquisition systems in the presence of a xenosiderophore. *FEMS Microbiology Letters*, **2020**, 367,	2.9	1
4	Complex introgression among three diverged largemouth bass lineages.. *Evolutionary Applications*, **2021**, 14, 2815-2830	4.8	0
3	Transcriptomic profiles of Florida pompano (Trachinotus carolinus) gill following infection by the ectoparasite Amyloodiniumocellatum.. *Fish and Shellfish Immunology*, **2022**, 125, 171-179	4.3	0
2	Catfish Functional Genomics: Progress and Perspectives **2012**, 349-360		
1	The effect of piscidin antimicrobial peptides on the formation of Gram-negative bacterial biofilms. *Journal of Fish Diseases*, **2022**, 45, 99-105	2.6	