Pierre Boudinot

List of Publications by Citations

116 papers	6,284 citations	44 h-index	78 g-index
126 ext. papers	7,662 ext. citations	6.6 avg, IF	5.54 L-index

#	Paper	IF	Citations
116	IL-35-producing B cells are critical regulators of immunity during autoimmune and infectious diseases. *Nature*, **2014**, 507, 366-370	50.4	670
115	The XC chemokine receptor 1 is a conserved selective marker of mammalian cells homologous to mouse CD8alpha+ dendritic cells. *Journal of Experimental Medicine*, **2010**, 207, 1283-92	16.6	478
114	Plasticity of animal genome architecture unmasked by rapid evolution of a pelagic tunicate. *Science*, **2010**, 330, 1381-5	33.3	212
113	Mitochondrial antiviral signaling protein plays a major role in induction of the fish innate immune response against RNA and DNA viruses. *Journal of Virology*, **2009**, 83, 7815-27	6.6	205
112	Identification of the zebrafish IFN receptor: implications for the origin of the vertebrate IFN system. *Journal of Immunology*, **2007**, 178, 4385-94	5.3	190
111	The antiviral innate immune response in fish: evolution and conservation of the IFN system. *Journal of Molecular Biology*, **2013**, 425, 4904-20	6.5	186
110	The two groups of zebrafish virus-induced interferons signal via distinct receptors with specific and shared chains. *Journal of Immunology*, **2009**, 183, 3924-31	5.3	184
109	Combined DNA immunization with the glycoprotein gene of viral hemorrhagic septicemia virus and infectious hematopoietic necrosis virus induces double-specific protective immunity and nonspecific response in rainbow trout. *Virology*, **1998**, 249, 297-306	3.6	163
108	Survey of transcript expression in rainbow trout leukocytes reveals a major contribution of interferon-responsive genes in the early response to a rhabdovirus infection. *Journal of Virology*, **2002**, 76, 8040-9	6.6	126
107	Teleost fish mount complex clonal IgM and IgT responses in spleen upon systemic viral infection. *PLoS Pathogens*, **2013**, 9, e1003098	7.6	120
106	The zebrafish as a new model for the in vivo study of Shigella flexneri interaction with phagocytes and bacterial autophagy. *PLoS Pathogens*, **2013**, 9, e1003588	7.6	120
105	The past, present, and future of immune repertoire biology - the rise of next-generation repertoire analysis. *Frontiers in Immunology*, **2013**, 4, 413	8.4	116
104	vig-1, a new fish gene induced by the rhabdovirus glycoprotein, has a virus-induced homologue in humans and shares conserved motifs with the MoaA family. *Journal of Virology*, **1999**, 73, 1846-52	6.6	113
103	A large new subset of TRIM genes highly diversified by duplication and positive selection in teleost fish. *BMC Biology*, **2009**, 7, 7	7.3	111
102	Inflammatory chemokines direct and restrict leukocyte migration within live tissues as glycan-bound gradients. *Current Biology*, **2012**, 22, 2375-82	6.3	110
101	The astonishing diversity of Ig classes and B cell repertoires in teleost fish. *Frontiers in Immunology*, **2013**, 4, 28	8.4	107
100	Comprehensive survey and genomic characterization of Toll-like receptors (TLRs) in channel catfish, Ictalurus punctatus: identification of novel fish TLRs. *Immunogenetics*, **2013**, 65, 511-30	3.2	95

99	Suppressive functions of activated B cells in autoimmune diseases reveal the dual roles of Toll-like receptors in immunity. *Immunological Reviews*, **2010**, 233, 146-61	11.3	93
98	Phenotypic and functional similarity of gut intraepithelial and systemic T cells in a teleost fish. *Journal of Immunology*, **2006**, 176, 3942-9	5.3	93
97	CXCL8 chemokines in teleost fish: two lineages with distinct expression profiles during early phases of inflammation. *PLoS ONE*, **2010**, 5, e12384	3.7	87
96	Salmonids have an extraordinary complex type I IFN system: characterization of the IFN locus in rainbow trout oncorhynchus mykiss reveals two novel IFN subgroups. *Journal of Immunology*, **2014**, 193, 2273-86	5.3	81
95	Early antiviral response and virus-induced genes in fish. *Developmental and Comparative Immunology*, **2011**, 35, 1204-14	3.2	81
94	The B7 family of immunoregulatory receptors: a comparative and evolutionary perspective. *Molecular Immunology*, **2009**, 46, 457-72	4.3	81
93	T cell diversity and TcR repertoires in teleost fish. *Fish and Shellfish Immunology*, **2011**, 31, 644-54	4.3	78
92	In vivo analysis of Ifn-1 and Ifn-2 signaling in zebrafish. *Journal of Immunology*, **2010**, 185, 6774-82	5.3	77
91	P2X4: A fast and sensitive purinergic receptor. *Biomedical Journal*, **2017**, 40, 245-256	7.1	73
90	Origin and evolution of TRIM proteins: new insights from the complete TRIM repertoire of zebrafish and pufferfish. *PLoS ONE*, **2011**, 6, e22022	3.7	73
89	An Mx1 promoter-reporter system to study interferon pathways in rainbow trout. *Developmental and Comparative Immunology*, **2004**, 28, 793-801	3.2	72
88	Rhabdovirus infection induces public and private T cell responses in teleost fish. *Journal of Immunology*, **2001**, 167, 6202-9	5.3	71
87	Novel Teleost CD4-Bearing Cell Populations Provide Insights into the Evolutionary Origins and Primordial Roles of CD4+ Lymphocytes and CD4+ Macrophages. *Journal of Immunology*, **2016**, 196, 4522-35	5.3	70
86	Costimulatory receptors in jawed vertebrates: conserved CD28, odd CTLA4 and multiple BTLAs. *Developmental and Comparative Immunology*, **2007**, 31, 255-71	3.2	64
85	Wide range of susceptibility to rhabdoviruses in homozygous clones of rainbow trout. *Fish and Shellfish Immunology*, **2007**, 22, 510-9	4.3	64
84	Thymus-Derived Regulatory T Cells Are Positively Selected on Natural Self-Antigen through Cognate Interactions of High Functional Avidity. *Immunity*, **2016**, 44, 1114-26	32.3	64
83	Zebrafish ISG15 exerts a strong antiviral activity against RNA and DNA viruses and regulates the interferon response. *Journal of Virology*, **2013**, 87, 10025-36	6.6	60
82	Costimulatory receptors in a teleost fish: typical CD28, elusive CTLA4. *Journal of Immunology*, **2006**, 176, 4191-200	5.3	58

81	Vesicular stomatitis virus and pseudorabies virus induce a vig1/cig5 homologue in mouse dendritic cells via different pathways. *Journal of General Virology*, **2000**, 81, 2675-2682	4.9	57
80	Whole-body analysis of a viral infection: vascular endothelium is a primary target of infectious hematopoietic necrosis virus in zebrafish larvae. *PLoS Pathogens*, **2011**, 7, e1001269	7.6	54
79	Viral haemorrhagic septicaemia virus induces vig-2, a new interferon-responsive gene in rainbow trout. *Fish and Shellfish Immunology*, **2001**, 11, 383-97	4.3	54
78	Defining Mononuclear Phagocyte Subset Homology Across Several Distant Warm-Blooded Vertebrates Through Comparative Transcriptomics. *Frontiers in Immunology*, **2015**, 6, 299	8.4	50
77	A tetrapod-like repertoire of innate immune receptors and effectors for coelacanths. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2014**, 322, 415-37	1.8	48
76	Contrasted innate responses to two viruses in zebrafish: insights into the ancestral repertoire of vertebrate IFN-stimulated genes. *Journal of Immunology*, **2014**, 192, 4328-41	5.3	48
75	Single-cell transcriptional analysis reveals ILC-like cells in zebrafish. *Science Immunology*, **2018**, 3,	28	47
74	Restricting nonclassical MHC genes coevolve with TRAV genes used by innate-like T cells in mammals. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E2983-92	11.5	45
73	B Cells Producing Type I IFN Modulate Macrophage Polarization in Tuberculosis. *American Journal of Respiratory and Critical Care Medicine*, **2018**, 197, 801-813	10.2	45
72	Unique Features of Fish Immune Repertoires: Particularities of Adaptive Immunity Within the Largest Group of Vertebrates. *Results and Problems in Cell Differentiation*, **2015**, 57, 235-64	1.4	43
71	Identification of two FoxP3 genes in rainbow trout (Oncorhynchus mykiss) with differential induction patterns. *Molecular Immunology*, **2010**, 47, 2563-74	4.3	42
70	The Peculiar Characteristics of Fish Type I Interferons. *Viruses*, **2016**, 8,	6.2	42
69	The glycoprotein of a fish rhabdovirus profiles the virus-specific T-cell repertoire in rainbow trout. *Journal of General Virology*, **2004**, 85, 3099-3108	4.9	39
68	Conserved Fever Pathways across Vertebrates: A Herpesvirus Expressed Decoy TNF-Receptor Delays Behavioral Fever in Fish. *Cell Host and Microbe*, **2017**, 21, 244-253	23.4	38
67	Resistance to a rhabdovirus (VHSV) in rainbow trout: identification of a major QTL related to innate mechanisms. *PLoS ONE*, **2013**, 8, e55302	3.7	37
66	Transcriptional responses of resistant and susceptible fish clones to the bacterial pathogen Flavobacterium psychrophilum. *PLoS ONE*, **2012**, 7, e39126	3.7	36
65	Disparate developmental patterns of immune responses to bacterial and viral infections in fish. *Scientific Reports*, **2015**, 5, 15458	4.9	35
64	Through the looking glass: witnessing host-virus interplay in zebrafish. *Trends in Microbiology*, **2014**, 22, 490-7	12.4	34

63	Diversity, molecular characterization and expression of T cell receptor In a teleost fish, the sea bass (Dicentrarchus labrax, L). *PLoS ONE*, **2012**, 7, e47957	3.7	34
62	MAIT, MR1, microbes and riboflavin: a paradigm for the co-evolution of invariant TCRs and restricting MHCI-like molecules?. *Immunogenetics*, **2016**, 68, 537-48	3.2	34
61	Development of an Efficient Genome Editing Method by CRISPR/Cas9 in a Fish Cell Line. *Marine Biotechnology*, **2016**, 18, 449-52	3.4	32
60	FinTRIMs, fish virus-inducible proteins with E3 ubiquitin ligase activity. *Developmental and Comparative Immunology*, **2012**, 36, 433-41	3.2	31
59	Genetic resistance to rhabdovirus infection in teleost fish is paralleled to the derived cell resistance status. *PLoS ONE*, **2012**, 7, e33935	3.7	31
58	Cross Talk Between Growth and Immunity: Coupling of the IGF Axis to Conserved Cytokine Pathways in Rainbow Trout. *Endocrinology*, **2016**, 157, 1942-55	4.8	31
57	Intramuscular DNA Vaccination of Juvenile Carp against Spring Viremia of Carp Virus Induces Full Protection and Establishes a Virus-Specific B and T Cell Response. *Frontiers in Immunology*, **2017**, 8, 1340	8.4	27
56	Duox1-derived H2O2 modulates Cxcl8 expression and neutrophil recruitment via JNK/c-JUN/AP-1 signaling and chromatin modifications. *Journal of Immunology*, **2015**, 194, 1523-33	5.3	27
55	Imaging of viral neuroinvasion in the zebrafish reveals that Sindbis and chikungunya viruses favour different entry routes. *DMM Disease Models and Mechanisms*, **2017**, 10, 847-857	4.1	26
54	IFN-Stimulated Genes in Zebrafish and Humans Define an Ancient Arsenal of Antiviral Immunity. *Journal of Immunology*, **2019**, 203, 3361-3373	5.3	26
53	Specific and Efficient Uptake of Surfactant-Free Poly(Lactic Acid) Nanovaccine Vehicles by Mucosal Dendritic Cells in Adult Zebrafish after Bath Immersion. *Frontiers in Immunology*, **2017**, 8, 190	8.4	26
52	Fish genotype significantly influences susceptibility of juvenile rainbow trout, Oncorhynchus mykiss (Walbaum), to waterborne infection with infectious salmon anaemia virus. *Journal of Fish Diseases*, **2007**, 30, 631-6	2.6	25
51	Vaccination of carp against SVCV with an oral DNA vaccine or an insect cells-based subunit vaccine. *Fish and Shellfish Immunology*, **2019**, 85, 66-77	4.3	25
50	Viral Resistance and IFN Signaling in STAT2 Knockout Fish Cells. *Journal of Immunology*, **2019**, 203, 465-475	5.3	24
49	New perspectives for large-scale repertoire analysis of immune receptors. *Molecular Immunology*, **2008**, 45, 2437-45	4.3	22
48	High-resolution crystal structures leverage protein binding affinity predictions. *Proteins: Structure, Function and Bioinformatics*, **2016**, 84, 9-20	4.2	20
47	Fish antiviral tripartite motif (TRIM) proteins. *Fish and Shellfish Immunology*, **2019**, 86, 724-733	4.3	20
46	Primary structure and complementarity-determining region (CDR) 3 spectratyping of rainbow trout TCRbeta transcripts identify ten Vbeta families with Vbeta6 displaying unusual CDR2 and differently spliced forms. *Journal of Immunology*, **2002**, 169, 6244-52	5.3	19

45	Nasal Vaccination Drives Modifications of Nasal and Systemic Antibody Repertoires in Rainbow Trout. *Journal of Immunology*, **2019**, 203, 1480-1492	5.3	18
44	The proto-MHC of placozoans, a region specialized in cellular stress and ubiquitination/proteasome pathways. *Journal of Immunology*, **2014**, 193, 2891-901	5.3	18
43	Combining Multiple Approaches and Models to Dissect the Genetic Architecture of Resistance to Infections in Fish. *Frontiers in Genetics*, **2020**, 11, 677	4.5	17
42	What could be the mechanisms of immunological memory in fish?. *Fish and Shellfish Immunology*, **2019**, 85, 3-8	4.3	17
41	Novel Structural Parameters of Ig-Ag Complexes Yield a Quantitative Description of Interaction Specificity and Binding Affinity. *Frontiers in Immunology*, **2017**, 8, 34	8.4	16
40	FTR83, a Member of the Large Fish-Specific finTRIM Family, Triggers IFN Pathway and Counters Viral Infection. *Frontiers in Immunology*, **2017**, 8, 617	8.4	16
39	Diversification of IFN□nducible CXCb chemokines in cyprinid fish. *Developmental and Comparative Immunology*, **2012**, 38, 243-53	3.2	16
38	Mechanistic and selective constraints act on the establishment of V lambda J lambda junctions in the B cell repertoire. *Journal of Immunology*, **1994**, 152, 2248-55	5.3	16
37	Contrasted TCR□diversity of CD8+ and CD8- T cells in rainbow trout. *PLoS ONE*, **2013**, 8, e60175	3.7	16
36	Quantitative trait loci for resistance to Flavobacterium psychrophilum in rainbow trout: effect of the mode of infection and evidence of epistatic interactions. *Genetics Selection Evolution*, **2018**, 50, 60	4.9	16
35	Standardized IMGT□ Nomenclature of Salmonidae IGH Genes, the Paradigm of Atlantic Salmon and Rainbow Trout: From Genomics to Repertoires. *Frontiers in Immunology*, **2019**, 10, 2541	8.4	15
34	Describing the diversity of Ag specific receptors in vertebrates: Contribution of repertoire deep sequencing. *Developmental and Comparative Immunology*, **2017**, 75, 28-37	3.2	14
33	Lysyl-tRNA synthetase produces diadenosine tetraphosphate to curb STING-dependent inflammation. *Science Advances*, **2020**, 6, eaax3333	14.3	13
32	Processing of fish Ig heavy chain transcripts: diverse splicing patterns and unusual nonsense mediated decay. *Developmental and Comparative Immunology*, **2011**, 35, 949-58	3.2	11
31	Origin of Public Memory B Cell Clones in Fish After Antiviral Vaccination. *Frontiers in Immunology*, **2018**, 9, 2115	8.4	11
30	IFN Signaling in Inflammation and Viral Infections: New Insights from Fish Models. *Viruses*, **2019**, 11,	6.2	10
29	Genetic and transcriptomic analyses provide new insights on the early antiviral response to VHSV in resistant and susceptible rainbow trout. *BMC Genomics*, **2018**, 19, 482	4.5	9
28	Various V-J rearrangement efficiencies shape the mouse lambda B cell repertoire. *European Journal of Immunology*, **1995**, 25, 2499-505	6.1	9

27	Human Peripheral Blood Eosinophils Express High Levels of the Purinergic Receptor P2X4. *Frontiers in Immunology*, **2019**, 10, 2074	8.4	8
26	Conserved distribution of lambda subtypes from rearranged gene segments to immunoglobulin synthesis in the mouse B cell repertoire. *European Journal of Immunology*, **1994**, 24, 2013-7	6.1	8
25	Lack of correlation between the resistances to two rhabdovirus infections in rainbow trout. *Fish and Shellfish Immunology*, **2013**, 35, 9-17	4.3	7
24	Diverse splicing pathways of the membrane IgHM pre-mRNA in a Chondrostean, the Siberian sturgeon. *Developmental and Comparative Immunology*, **2009**, 33, 507-15	3.2	7
23	Evolutionary Origin of the P2X7 C-ter Region: Capture of an Ancient Ballast Domain by a P2X4-Like Gene in Ancient Jawed Vertebrates. *Frontiers in Immunology*, **2020**, 11, 113	8.4	6
22	Zebrafish Plzf transcription factors enhance early type I IFN response induced by two non-enveloped RNA viruses. *Developmental and Comparative Immunology*, **2016**, 57, 48-56	3.2	6
21	The T cell receptor (TRA) locus in the rabbit (Oryctolagus cuniculus): Genomic features and consequences for invariant T cells. *European Journal of Immunology*, **2019**, 49, 2146-2158	6.1	6
20	Sequential Immunization With Heterologous Viruses Does Not Result in Attrition of the B Cell Memory in Rainbow Trout. *Frontiers in Immunology*, **2019**, 10, 2687	8.4	6
19	Kinetics of transcriptional response against poly (I:C) and infectious salmon anemia virus (ISAV) in Atlantic salmon kidney (ASK) cell line. *Developmental and Comparative Immunology*, **2020**, 110, 103716	3.2	5
18	A zebrafish model for COVID-19 recapitulates olfactory and cardiovascular pathophysiologies caused by SARS-CoV-2		5
17	R4 regulators of G protein signaling (RGS) identify an ancient MHC-linked synteny group. *Immunogenetics*, **2013**, 65, 145-56	3.2	4
16	Genomic analysis of a second rainbow trout line (Arlee) leads to an extended description of the IGH VDJ gene repertoire. *Developmental and Comparative Immunology*, **2021**, 118, 103998	3.2	4
15	High-Resolution, 3D Imaging of the Zebrafish Gill-Associated Lymphoid Tissue (GIALT) Reveals a Novel Lymphoid Structure, the Amphibranchial Lymphoid Tissue. *Frontiers in Immunology*, **2021**, 12, 769901	8.4	3
14	Type I interferon-dependent response of zebrafish larvae during tilapia lake virus (TiLV) infection. *Developmental and Comparative Immunology*, **2021**, 116, 103936	3.2	3
13	The repertoire of vertebrate STAT transcription factors: Origin and variations in fish. *Developmental and Comparative Immunology*, **2021**, 116, 103929	3.2	3
12	New cell lines for efficient propagation of koi herpesvirus and infectious salmon anaemia virus. *Journal of Fish Diseases*, **2019**, 42, 181-187	2.6	3
11	Cutting Edge: Neutralizing Public Antibody Responses Are an Ancient Form of Defense Conserved in Fish and Mammals. *Journal of Immunology*, **2021**, 207, 371-375	5.3	2
10	Evolution of the IRF Family in Salmonids. *Genes*, **2021**, 12,	4.2	2

9	Intranasal delivery of SARS-CoV-2 spike protein is sufficient to cause olfactory damage, inflammation and olfactory dysfunction in zebrafish.. *Brain, Behavior, and Immunity*, **2022**, 102, 341-359	16.6	2
8	Profiling the T Cell Receptor Alpha/Delta Locus in Salmonids. *Frontiers in Immunology*, **2021**, 12, 753960	8.4	1
7	Interferon-stimulated genes in zebrafish and human define an ancient arsenal of antiviral immunity		1
6	The rainbow trout genome, an important landmark for aquaculture and genome evolution **2016**, 21-43		1
5	New reporter zebrafish line unveils heterogeneity among lymphatic endothelial cells during development. *Developmental Dynamics*, **2021**, 250, 701-716	2.9	1
4	Recurrent expansions of B30.2-associated immune receptor families in fish. *Immunogenetics*, **2021**, 1	3.2	0
3	B-Cell Responses and Antibody Repertoires in Teleost Fish: From Ag Receptor Diversity to Immune Memory and Vaccine Development **2022**, 253-278		0
2	Interferons and interferon receptors in the channel catfish, Ictalurus punctatus.. *Fish and Shellfish Immunology*, **2022**, 123, 442-452	4.3	0
1	From IgZ to IgT: A Call for a Common Nomenclature for Immunoglobulin Heavy Chain Genes of Ray-Finned Fish.. *Zebrafish*, **2021**, 18, 343-345	2	0