Martin F Flajnik

List of Publications by Year
in descending order

120 papers	10,065 citations	36303 51 h-index	36028 97 g-index
123 all docs	123 docs citations	123 times ranked	7619 citing authors

#	Article	IF	Citations
1	Lost structural and functional inter-relationships between Ig and TCR loci in mammals revealed in sharks. Immunogenetics, 2021, 73, 17-33.	2.4	10
2	Analysis of shark NCR3 family genes reveals primordial features of vertebrate NKp30. Immunogenetics, 2021, 73, 333-348.	2.4	5
3	A Highly Complex, MHC-Linked, 350 Million-Year-Old Shark Nonclassical Class I Lineage. Journal of Immunology, 2021, 207, 824-836.	0.8	7
4	Identification of the Fcâ€alpha/mu receptor in <i>Xenopus</i> provides insight into the emergence of the polyâ€Ig receptor (pIgR) and mucosal Ig transport. European Journal of Immunology, 2021, 51, 2590-2606.	2.9	6
5	From IgZ to IgT: A Call for a Common Nomenclature for Immunoglobulin Heavy Chain Genes of Ray-Finned Fish. Zebrafish, 2021, 18, 343-345.	1.1	9
6	Cartilaginous fish class II genes reveal unprecedented old allelic lineages and confirm the late evolutionary emergence of DM. Molecular Immunology, 2020, 128, 125-138.	2.2	6
7	Nurse shark Tâ€cell receptors employ somatic hypermutation preferentially to alter alpha/delta variable segments associated with alpha constant region. European Journal of Immunology, 2020, 50, 1307-1320.	2.9	8
8	An Ancient, MHC-Linked, Nonclassical Class I Lineage in Cartilaginous Fish. Journal of Immunology, 2020, 204, 892-902.	0.8	12
9	Ancient Use of Ig Variable Domains Contributes Significantly to the TCRÎ´ Repertoire. Journal of Immunology, 2019, 203, 1265-1275.	0.8	8
10	Inferring the â€œPrimordial Immune Complexâ€: Origins of MHC Class I and Antigen Receptors Revealed by Comparative Genomics. Journal of Immunology, 2019, 203, 1882-1896.	0.8	24
11	Origin and evolution of the specialized forms of proteasomes involved in antigen presentation. Immunogenetics, 2019, 71, 251-261.	2.4	23
12	Biology, evolution, and history of antigen processing and presentation: Immunogenetics special issue 2019. Immunogenetics, 2019, 71, 137-139.	2.4	3
13	Construction and next-generation sequencing analysis of a large phage-displayed VNAR single-domain antibody library from six naÃ¯ve nurse sharks. Antibody Therapeutics, 2019, 2, 1-11.	1.9	53
14	A cold-blooded view of adaptive immunity. Nature Reviews Immunology, 2018, 18, 438-453.	22.7	242
15	â€œDoubleâ€dutyâ€•conventional dendritic cells in the amphibian <i>Xenopus</i> as the prototype for antigen presentation to B cells. European Journal of Immunology, 2018, 48, 430-440.	2.9	27
16	Somatic hypermutation of T cell receptor Î± chain contributes to selection in nurse shark thymus. ELife, 2018, 7, .	6.0	33
17	Haptoglobin Is a Divergent MASP Family Member That Neofunctionalized To Recycle Hemoglobin via CD163 in Mammals. Journal of Immunology, 2018, 201, 2483-2491.	0.8	20
18	Questions of Stochasticity and Control in Immune Repertoires. Trends in Immunology, 2018, 39, 859-861.	6.8	3

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19	A Convergent Immunological Holy Trinity of Adaptive Immunity in Lampreys: Discovery of the Variable Lymphocyte Receptors. Journal of Immunology, 2018, 201, 1331-1335.	0.8	10
20	Evidence for Ig Light Chain Isotype Exclusion in Shark B Lymphocytes Suggests Ordered Mechanisms. Journal of Immunology, 2017, 199, 1875-1885.	0.8	5
21	Evolution of Myeloid Cells. , 2017, , 43-58.		2
22	Structure and Function of IgNARS in Sharks and Other Cartilaginous Fish. , 2016, , 160-165.		0
23	Editorial: Infection and immunity research at the University of Maryland, Baltimore. Pathogens and Disease, 2016, 74, ftw100.	2.0	0
24	Evidence of G.O.D.â€™s Miracle: Unearthing a RAG Transposon. Cell, 2016, 166, 11-12.	28.9	28
25	Emergence and Evolution of Secondary Lymphoid Organs. Annual Review of Cell and Developmental Biology, 2016, 32, 693-711.	9.4	61
26	Evolution of Myeloid Cells. Microbiology Spectrum, 2016, 4, .	3.0	21
27	VNAR single-domain antibodies specific for BAFF inhibit B cell development by molecular mimicry. Molecular Immunology, 2016, 75, 28-37.	2.2	20
28	CD1, MR1, NKT, and MAIT: evolution and origins of non-peptidic antigen recognition by T lymphocytes. Immunogenetics, 2016, 68, 489-490.	2.4	13
29	Genome evolution in the allotetraploid frog Xenopus laevis. Nature, 2016, 538, 336-343.	27.8	849
30	Coevolution of <scp>MHC</scp> genes (<scp>LMP</scp>/<scp>TAP</scp>/class Ia, <scp>NKT</scp>â€class) Tj ETQq0 0 0 rgBT /Overlo 6-15.	6.0	23
31	CXCL13 Responsiveness but Not CXCR5 Expression by Late Transitional B Cells Initiates Splenic White Pulp Formation. Journal of Immunology, 2015, 194, 2616-2623.	0.8	18
32	Biased Immunoglobulin Light Chain Gene Usage in the Shark. Journal of Immunology, 2015, 195, 3992-4000.	0.8	5
33	Putting J Chain Back on the Map: How Might Its Expression Define Plasma Cell Development?. Journal of Immunology, 2014, 193, 3248-3255.	0.8	66
34	Venkatesh et al. reply. Nature, 2014, 511, E9-E10.	27.8	10
35	The structural analysis of shark IgNAR antibodies reveals evolutionary principles of immunoglobulins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8155-8160.	7.1	67
36	Elephant shark genome provides unique insights into gnathostome evolution. Nature, 2014, 505, 174-179.	27.8	689

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37	Re-evaluation of the Immunological Big Bang. Current Biology, 2014, 24, R1060-R1065.	3.9	71
38	Noncoordinate expression of <scp>J</scp>â€chain and <scp>B</scp>limpâ€1 define nurse shark plasma cell populations during ontogeny. European Journal of Immunology, 2013, 43, 3061-3075.	2.9	29
39	Shark class II invariant chain reveals ancient conserved relationships with cathepsins and MHC class II. Developmental and Comparative Immunology, 2012, 36, 521-533.	2.3	34
40	Characterization of the immunoglobulin repertoire of the spiny dogfish (Squalus acanthias). Developmental and Comparative Immunology, 2012, 36, 665-679.	2.3	38
41	Evolution of the B7 family: co-evolution of B7H6 and NKp30, identification of a new B7 family member, B7H7, and of B7's historical relationship with the MHC. Immunogenetics, 2012, 64, 571-590.	2.4	73
42	Comparative genomic analysis of the proteasome Î²5t subunit gene: implications for the origin and evolution of thymoproteasomes. Immunogenetics, 2012, 64, 49-58.	2.4	26
43	A Case Of Convergence: Why Did a Simple Alternative to Canonical Antibodies Arise in Sharks and Camels?. PLoS Biology, 2011, 9, e1001120.	5.6	159
44	Isolation and characterisation of Ebolavirus-specific recombinant antibody fragments from murine and shark immune libraries. Molecular Immunology, 2011, 48, 2027-2037.	2.2	63
45	Immunology: The Origin of Sweetbreads in Lampreys?. Current Biology, 2011, 21, R218-R220.	3.9	3
46	The Multiple Shark Ig H Chain Genes Rearrange and Hypermutate Autonomously. Journal of Immunology, 2011, 187, 2492-2501.	0.8	20
47	Primordial Linkage of<i>Î²2-Microglobulin</i>to the MHC. Journal of Immunology, 2011, 186, 3563-3571.	0.8	37
48	The dynamic TCRÎ´: TCRÎ´ chains in the amphibian <i>Xenopus tropicalis</i> utilize antibodyâ€like V genes. European Journal of Immunology, 2010, 40, 2319-2329.	2.9	50
49	All GOD's creatures got dedicated mucosal immunity. Nature Immunology, 2010, 11, 777-779.	14.5	36
50	Origin and evolution of the adaptive immune system: genetic events and selective pressures. Nature Reviews Genetics, 2010, 11, 47-59.	16.3	753
51	A structural basis for antigen recognition by the T cell-like lymphocytes of sea lamprey. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13408-13413.	7.1	66
52	Evolutionarily Conserved TCR Binding Sites, Identification of T Cells in Primary Lymphoid Tissues, and Surprising Trans-Rearrangements in Nurse Shark. Journal of Immunology, 2010, 184, 6950-6960.	0.8	77
53	High-affinity lamprey VLRA and VLRB monoclonal antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12891-12896.	7.1	104
54	The Generation and Selection of Single-Domain, V Region Libraries from Nurse Sharks. Methods in Molecular Biology, 2009, 562, 71-82.	0.9	19

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55	Evolutionarily conserved and divergent regions of the Autoimmune Regulator (Aire) gene: a comparative analysis. Immunogenetics, 2008, 60, 105-114.	2.4	52
56	Immunoglobulin Heavy Chain Exclusion in the Shark. PLoS Biology, 2008, 6, e157.	5.6	51
57	Localization and Differential Expression of Activation-Induced Cytidine Deaminase in the Amphibian <i>Xenopus</i> upon Antigen Stimulation and during Early Development. Journal of Immunology, 2007, 179, 6783-6789.	0.8	65
58	Maturation of Shark Single-domain (IgNAR) Antibodies: Evidence for Induced-fit Binding. Journal of Molecular Biology, 2007, 367, 358-372.	4.2	127
59	Four primordial immunoglobulin light chain isotypes, includingâ€„Î» andâ€„Îº, identified in the most primitive living jawed vertebrates. European Journal of Immunology, 2007, 37, 2683-2694.	2.9	106
60	Immunogenetics: alternative strategies in adaptive immunity and the rise of comparative immunogenomics. Current Opinion in Immunology, 2007, 19, 522-525.	5.5	3
61	The plasticity of immunoglobulin gene systems in evolution. Immunological Reviews, 2006, 210, 8-26.	6.0	95
62	Construction of a nurse shark (Ginglymostoma cirratum) bacterial artificial chromosome (BAC) library and a preliminary genome survey. BMC Genomics, 2006, 7, 106.	2.8	27
63	An evolutionarily mobile antigen receptor variable region gene: Doubly rearranging NAR-TcR genes in sharks. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5036-5041.	7.1	90
64	Ancestral Organization of the MHC Revealed in the Amphibian<i>Xenopus</i>. Journal of Immunology, 2006, 176, 3674-3685.	0.8	128
65	First molecular and biochemical analysis of in vivo affinity maturation in an ectothermic vertebrate. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1846-1851.	7.1	91
66	IgD, like IgM, is a primordial immunoglobulin class perpetuated in most jawed vertebrates. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10723-10728.	7.1	193
67	The last flag unfurled? A new immunoglobulin isotype in fish expressed in early development. Nature Immunology, 2005, 6, 229-230.	14.5	34
68	Shark immunity bites back: affinity maturation and memory response in the nurse shark,Ginglymostoma cirratum. European Journal of Immunology, 2005, 35, 936-945.	2.9	140
69	Somatic Hypermutation and Junctional Diversification at Ig Heavy Chain Loci in the Nurse Shark. Journal of Immunology, 2005, 175, 8105-8115.	0.8	32
70	Shark Ig Light Chain Junctions Are as Diverse as in Heavy Chains. Journal of Immunology, 2004, 173, 5574-5582.	0.8	45
71	Unprecedented Multiplicity of Ig Transmembrane and Secretory mRNA Forms in the Cartilaginous Fish. Journal of Immunology, 2004, 173, 1129-1139.	0.8	57
72	Homologs of CD83 from Elasmobranch and Teleost Fish. Journal of Immunology, 2004, 173, 4553-4560.	0.8	72

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73	Another manifestation of GOD. Nature, 2004, 430, 157-158.	27.8	11
74	Diversity and repertoire of IgW and IgM VH families in the newborn nurse shark. BMC Immunology, 2004, 5, 8.	2.2	47
75	Diverse Forms of Immunoglobulin Genes in Lower Vertebrates. , 2004, , 417-432.		6
76	Crystal Structure of a Shark Single-Domain Antibody V Region in Complex with Lysozyme. Science, 2004, 305, 1770-1773.	12.6	282
77	Evolution of innate and adaptive immunity: can we draw a line?. Trends in Immunology, 2004, 25, 640-644.	6.8	230
78	Terminal deoxynucleotidyl transferases from elasmobranchs reveal structural conservation within vertebrates. Immunogenetics, 2003, 55, 594-604.	2.4	16
79	Two highly divergent ancient allelic lineages of the transporter associated with antigen processing(TAP) gene inXenopus: further evidence for co-evolution among MHC classâ€„I region genes. European Journal of Immunology, 2003, 33, 3017-3027.	2.9	42
80	Selection and characterization of naturally occurring single-domain (IgNAR) antibody fragments from immunized sharks by phage display. Molecular Immunology, 2003, 40, 25-33.	2.2	168
81	J Chain in the Nurse Shark: Implications for Function in a Lower Vertebrate. Journal of Immunology, 2003, 170, 6016-6023.	0.8	39
82	Molecular Cloning of C4 Gene and Identification of the Class III Complement Region in the Shark MHC. Journal of Immunology, 2003, 171, 2461-2466.	0.8	39
83	Proteasome, Transporter Associated with Antigen Processing, and Class I Genes in the Nurse Shark<i>Ginglymostoma cirratum</i>: Evidence for a Stable Class I Region and MHC Haplotype Lineages. Journal of Immunology, 2002, 168, 771-781.	0.8	71
84	Hypermutation in Shark Immunoglobulin Light Chain Genes Results in Contiguous Substitutions. Immunity, 2002, 16, 571-582.	14.3	93
85	The leukocyte common antigen (CD45) of the Pacific hagfish, Eptatretus stoutii: implications for the primordial function of CD45. Immunogenetics, 2002, 54, 286-291.	2.4	37
86	Structural analysis, selection, and ontogeny of the shark new antigen receptor (IgNAR): identification of a new locus preferentially expressed in early development. Immunogenetics, 2002, 54, 501-512.	2.4	97
87	The Development of Primary and Secondary Lymphoid Tissues in the Nurse Shark Ginglymostoma cirratum : B-Cell Zones Precede Dendritic Cell Immigration and T-Cell Zone Formation During Ontogeny of the Spleen. Scandinavian Journal of Immunology, 2002, 56, 130-148.	2.7	110
88	Comparative analyses of immunoglobulin genes: surprises and portents. Nature Reviews Immunology, 2002, 2, 688-698.	22.7	334
89	The Translesion DNA Polymerase Î¶ Plays a Major Role in Ig and bcl-6 Somatic Hypermutation. Immunity, 2001, 14, 643-653.	14.3	199
90	Comparative Genomics of the MHC. Immunity, 2001, 15, 351-362.	14.3	335

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91	Decreased Frequency of Somatic Hypermutation and Impaired Affinity Maturation but Intact Germinal Center Formation in Mice Expressing Antisense RNA to DNA Polymerase Î¶. Journal of Immunology, 2001, 167, 327-335.	0.8	141
92	Evolution and the molecular basis of somatic hypermutation of antigen receptor genes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 67-72.	4.0	24
93	Trans-species polymorphism of the major histocompatibility complex-encoded proteasome subunit LMP7 in an amphibian genus, Xenopus. Immunogenetics, 2000, 51, 186-192.	2.4	28
94	Rearrangement of Immunoglobulin Genes in Shark Germ Cells. Journal of Experimental Medicine, 2000, 191, 1637-1648.	8.5	80
95	Mutational pattern of the nurse shark antigen receptor gene (NAR) is similar to that of mammalian Ig genes and to spontaneous mutations in evolution: the translesion synthesis model of somatic hypermutation. International Immunology, 1999, 11, 825-833.	4.0	117
96	Insight into the primordial MHC from studies in ectothermic vertebrates. Immunological Reviews, 1999, 167, 59-67.	6.0	87
97	Churchill and the immune system of ectothermic vertebrates. Immunological Reviews, 1998, 166, 5-14.	6.0	29
98	IgM-mediated opsonization and cytotoxicity in the shark. Journal of Leukocyte Biology, 1997, 61, 141-146.	3.3	24
99	Involvement of Thyroid Hormones in the Expression of MHC class I Antigens During Ontogeny in<i>Xenopus</i>. Autoimmunity, 1997, 5, 133-144.	0.6	36
100	The immune system of ectothermic vertebrates. Veterinary Immunology and Immunopathology, 1996, 54, 145-150.	1.2	34
101	RING3 is linked to theXenopus major histocompatibility complex. Immunogenetics, 1996, 44, 397-399.	2.4	13
102	A novel â€œchimericâ€•antibody class in cartilaginous fish: IgM may not be the primordial immunoglobulin. European Journal of Immunology, 1996, 26, 1123-1129.	2.9	113
103	Duplication of the MHC-linked Xenopus complement factor B gene. Immunogenetics, 1995, 42, 196-203.	2.4	22
104	A new antigen receptor gene family that undergoes rearrangement and extensive somatic diversification in sharks. Nature, 1995, 374, 168-173.	27.8	653
105	Evolution and Developmental Regulation of the Major Histocompatibility Complex. Critical Reviews in Immunology, 1995, 15, 31-75.	0.5	32
106	Evolution of the major histocompatibility complex: a current overview. Transplant Immunology, 1995, 3, 1-20.	1.2	54
107	Structural conservation of hypervariable regions in immunoglobulins evolution. Nature Structural and Molecular Biology, 1994, 1, 915-920.	8.2	44
108	Evolutionary conservation of MHC class I and class II moleculesâ€"different yet the same. Seminars in Immunology, 1994, 6, 411-424.	5.6	161

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109	The evolutionary origin of the major histocompatibility complex: Polymorphism of class II Î± chain genes in the cartilaginous fish. European Journal of Immunology, 1993, 23, 2160-2165.	2.9	65
110	Light chain heterogeneity in the amphibian Xenopus. Molecular Immunology, 1991, 28, 985-994.	2.2	48
111	Which came first, MHC class I or class II?. Immunogenetics, 1991, 33, 295-300.	2.4	139
112	Molecular Cloning of Nurse Shark cDNAs with High Sequence Similarity to Nucleoside Diphosphate Kinase Genes. , 1991, , 491-499.		12
113	Expression of MHC Class II Antigens During Xenopus Development. Autoimmunity, 1990, 1, 85-95.	0.6	104
114	Evolution of the MHC: Antigenicity and unusual tissue distribution of Xenopus (frog) class II molecules. Molecular Immunology, 1990, 27, 451-462.	2.2	55
115	MHC class I antigens as surface markers of adult erythrocytes during the metamorphosis of Xenopus. Developmental Biology, 1988, 128, 198-206.	2.0	59
116	Changes in the immune system during metamorphosis of Xenopus. Trends in Immunology, 1987, 8, 58-64.	7.5	116
117	Immune responses of thymusf/ymphocyte embryonic chimeras: studies on tolerance and major histocompatibility complex restriction inXenopus. European Journal of Immunology, 1985, 15, 540-547.	2.9	87
118	Studies on the Xenopus major histocompatibility complex. Developmental and Comparative Immunology, 1985, 9, 777-781.	2.3	13
119	Identification of class I major histocompatibility complex encoded molecules in the amphibian Xenopus. Immunogenetics, 1984, 20, 433-442.	2.4	66
120	Masanori Kasahara: Long-standing Immunogenetics co-editor steps down. Immunogenetics, 0, , .	2.4	0