

Martin F Flajnik

List of Publications by Year in descending order

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120
papers

10,065
citations

36203

51
h-index

35952

97
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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. <i>Immunogenetics</i> , 2021, 73, 17-33.	1.2	10
2	Analysis of shark NCR3 family genes reveals primordial features of vertebrate NKp30. <i>Immunogenetics</i> , 2021, 73, 333-348.	1.2	5
3	A Highly Complex, MHC-Linked, 350 Million-Year-Old Shark Nonclassical Class I Lineage. <i>Journal of Immunology</i> , 2021, 207, 824-836.	0.4	7
4	Identification of the Fc α /mu receptor in <i>Xenopus</i> provides insight into the emergence of the polyIg receptor (pIgR) and mucosal Ig transport. <i>European Journal of Immunology</i> , 2021, 51, 2590-2606.	1.6	6
5	From IgZ to IgT: A Call for a Common Nomenclature for Immunoglobulin Heavy Chain Genes of Ray-Finned Fish. <i>Zebrafish</i> , 2021, 18, 343-345.	0.5	9
6	Cartilaginous fish class II genes reveal unprecedented old allelic lineages and confirm the late evolutionary emergence of DM. <i>Molecular Immunology</i> , 2020, 128, 125-138.	1.0	6
7	Nurse shark T α cell receptors employ somatic hypermutation preferentially to alter alpha/delta variable segments associated with alpha constant region. <i>European Journal of Immunology</i> , 2020, 50, 1307-1320.	1.6	8
8	An Ancient, MHC-Linked, Nonclassical Class I Lineage in Cartilaginous Fish. <i>Journal of Immunology</i> , 2020, 204, 892-902.	0.4	12
9	Ancient Use of Ig Variable Domains Contributes Significantly to the TCR γ Repertoire. <i>Journal of Immunology</i> , 2019, 203, 1265-1275.	0.4	8
10	Inferring the "Primordial Immune Complex" Origins of MHC Class I and Antigen Receptors Revealed by Comparative Genomics. <i>Journal of Immunology</i> , 2019, 203, 1882-1896.	0.4	24
11	Origin and evolution of the specialized forms of proteasomes involved in antigen presentation. <i>Immunogenetics</i> , 2019, 71, 251-261.	1.2	23
12	Biology, evolution, and history of antigen processing and presentation: <i>Immunogenetics</i> special issue 2019. <i>Immunogenetics</i> , 2019, 71, 137-139.	1.2	3
13	Construction and next-generation sequencing analysis of a large phage-displayed VNAR single-domain antibody library from six naive nurse sharks. <i>Antibody Therapeutics</i> , 2019, 2, 1-11.	1.2	53
14	A cold-blooded view of adaptive immunity. <i>Nature Reviews Immunology</i> , 2018, 18, 438-453.	10.6	242
15	"Double-duty" conventional dendritic cells in the amphibian <i>Xenopus</i> as the prototype for antigen presentation to B cells. <i>European Journal of Immunology</i> , 2018, 48, 430-440.	1.6	27
16	Somatic hypermutation of T cell receptor β chain contributes to selection in nurse shark thymus. <i>ELife</i> , 2018, 7, .	2.8	33
17	Haptoglobin Is a Divergent MASP Family Member That Neofunctionalized To Recycle Hemoglobin via CD163 in Mammals. <i>Journal of Immunology</i> , 2018, 201, 2483-2491.	0.4	20
18	Questions of Stochasticity and Control in Immune Repertoires. <i>Trends in Immunology</i> , 2018, 39, 859-861.	2.9	3

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19	A Convergent Immunological Holy Trinity of Adaptive Immunity in Lampreys: Discovery of the Variable Lymphocyte Receptors. <i>Journal of Immunology</i> , 2018, 201, 1331-1335.	0.4	10
20	Evidence for Ig Light Chain Isotype Exclusion in Shark B Lymphocytes Suggests Ordered Mechanisms. <i>Journal of Immunology</i> , 2017, 199, 1875-1885.	0.4	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. <i>Pathogens and Disease</i> , 2016, 74, ftw100.	0.8	0
24	Evidence of G.O.D.'s Miracle: Unearthing a RAG Transposon. <i>Cell</i> , 2016, 166, 11-12.	13.5	28
25	Emergence and Evolution of Secondary Lymphoid Organs. <i>Annual Review of Cell and Developmental Biology</i> , 2016, 32, 693-711.	4.0	61
26	Evolution of Myeloid Cells. <i>Microbiology Spectrum</i> , 2016, 4, .	1.2	21
27	VNAR single-domain antibodies specific for BAFF inhibit B cell development by molecular mimicry. <i>Molecular Immunology</i> , 2016, 75, 28-37.	1.0	20
28	CD1, MR1, NKT, and MAIT: evolution and origins of non-peptidic antigen recognition by T lymphocytes. <i>Immunogenetics</i> , 2016, 68, 489-490.	1.2	13
29	Genome evolution in the allotetraploid frog <i>Xenopus laevis</i> . <i>Nature</i> , 2016, 538, 336-343.	13.7	849
30	Coevolution of MHC genes (LMP/TAP/class Ia, NKT) Tj ETQq0 0 0 rgBT /Overlo 6-15.	2.8	23
31	CXCL13 Responsiveness but Not CXCR5 Expression by Late Transitional B Cells Initiates Splenic White Pulp Formation. <i>Journal of Immunology</i> , 2015, 194, 2616-2623.	0.4	18
32	Biased Immunoglobulin Light Chain Gene Usage in the Shark. <i>Journal of Immunology</i> , 2015, 195, 3992-4000.	0.4	5
33	Putting J Chain Back on the Map: How Might Its Expression Define Plasma Cell Development?. <i>Journal of Immunology</i> , 2014, 193, 3248-3255.	0.4	66
34	Venkatesh et al. reply. <i>Nature</i> , 2014, 511, E9-E10.	13.7	10
35	The structural analysis of shark IgNAR antibodies reveals evolutionary principles of immunoglobulins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8155-8160.	3.3	67
36	Elephant shark genome provides unique insights into gnathostome evolution. <i>Nature</i> , 2014, 505, 174-179.	13.7	689

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37	Re-evaluation of the Immunological Big Bang. <i>Current Biology</i> , 2014, 24, R1060-R1065.	1.8	71
38	Noncoordinate expression of J α chain and B λ 1 define nurse shark plasma cell populations during ontogeny. <i>European Journal of Immunology</i> , 2013, 43, 3061-3075.	1.6	29
39	Shark class II invariant chain reveals ancient conserved relationships with cathepsins and MHC class II. <i>Developmental and Comparative Immunology</i> , 2012, 36, 521-533.	1.0	34
40	Characterization of the immunoglobulin repertoire of the spiny dogfish (<i>Squalus acanthias</i>). <i>Developmental and Comparative Immunology</i> , 2012, 36, 665-679.	1.0	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. <i>Immunogenetics</i> , 2012, 64, 571-590.	1.2	73
42	Comparative genomic analysis of the proteasome β 5t subunit gene: implications for the origin and evolution of thymoproteasomes. <i>Immunogenetics</i> , 2012, 64, 49-58.	1.2	26
43	A Case Of Convergence: Why Did a Simple Alternative to Canonical Antibodies Arise in Sharks and Camels?. <i>PLoS Biology</i> , 2011, 9, e1001120.	2.6	159
44	Isolation and characterisation of Ebolavirus-specific recombinant antibody fragments from murine and shark immune libraries. <i>Molecular Immunology</i> , 2011, 48, 2027-2037.	1.0	63
45	Immunology: The Origin of Sweetbreads in Lampreys?. <i>Current Biology</i> , 2011, 21, R218-R220.	1.8	3
46	The Multiple Shark Ig H Chain Genes Rearrange and Hypermutate Autonomously. <i>Journal of Immunology</i> , 2011, 187, 2492-2501.	0.4	20
47	Primordial Linkage of β 2-Microglobulin to the MHC. <i>Journal of Immunology</i> , 2011, 186, 3563-3571.	0.4	37
48	The dynamic TCR β : TCR β chains in the amphibian <i>Xenopus tropicalis</i> utilize antibody-like V genes. <i>European Journal of Immunology</i> , 2010, 40, 2319-2329.	1.6	50
49	All GOD's creatures got dedicated mucosal immunity. <i>Nature Immunology</i> , 2010, 11, 777-779.	7.0	36
50	Origin and evolution of the adaptive immune system: genetic events and selective pressures. <i>Nature Reviews Genetics</i> , 2010, 11, 47-59.	7.7	753
51	A structural basis for antigen recognition by the T cell-like lymphocytes of sea lamprey. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13408-13413.	3.3	66
52	Evolutionarily Conserved TCR Binding Sites, Identification of T Cells in Primary Lymphoid Tissues, and Surprising Trans-Rearrangements in Nurse Shark. <i>Journal of Immunology</i> , 2010, 184, 6950-6960.	0.4	77
53	High-affinity lamprey VLRA and VLRB monoclonal antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12891-12896.	3.3	104
54	The Generation and Selection of Single-Domain, V Region Libraries from Nurse Sharks. <i>Methods in Molecular Biology</i> , 2009, 562, 71-82.	0.4	19

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55	Evolutionarily conserved and divergent regions of the Autoimmune Regulator (Aire) gene: a comparative analysis. <i>Immunogenetics</i> , 2008, 60, 105-114.	1.2	52
56	Immunoglobulin Heavy Chain Exclusion in the Shark. <i>PLoS Biology</i> , 2008, 6, e157.	2.6	51
57	Localization and Differential Expression of Activation-Induced Cytidine Deaminase in the Amphibian <i>Xenopus</i> upon Antigen Stimulation and during Early Development. <i>Journal of Immunology</i> , 2007, 179, 6783-6789.	0.4	65
58	Maturation of Shark Single-domain (IgNAR) Antibodies: Evidence for Induced-fit Binding. <i>Journal of Molecular Biology</i> , 2007, 367, 358-372.	2.0	127
59	Four primordial immunoglobulin light chain isotypes, including λ_1 and λ_2 , identified in the most primitive living jawed vertebrates. <i>European Journal of Immunology</i> , 2007, 37, 2683-2694.	1.6	106
60	Immunogenetics: alternative strategies in adaptive immunity and the rise of comparative immunogenomics. <i>Current Opinion in Immunology</i> , 2007, 19, 522-525.	2.4	3
61	The plasticity of immunoglobulin gene systems in evolution. <i>Immunological Reviews</i> , 2006, 210, 8-26.	2.8	95
62	Construction of a nurse shark (<i>Ginglymostoma cirratum</i>) bacterial artificial chromosome (BAC) library and a preliminary genome survey. <i>BMC Genomics</i> , 2006, 7, 106.	1.2	27
63	An evolutionarily mobile antigen receptor variable region gene: Doubly rearranging NAR-TcR genes in sharks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5036-5041.	3.3	90
64	Ancestral Organization of the MHC Revealed in the Amphibian <i>Xenopus</i> . <i>Journal of Immunology</i> , 2006, 176, 3674-3685.	0.4	128
65	First molecular and biochemical analysis of in vivo affinity maturation in an ectothermic vertebrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1846-1851.	3.3	91
66	IgD, like IgM, is a primordial immunoglobulin class perpetuated in most jawed vertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10723-10728.	3.3	193
67	The last flag unfurled? A new immunoglobulin isotype in fish expressed in early development. <i>Nature Immunology</i> , 2005, 6, 229-230.	7.0	34
68	Shark immunity bites back: affinity maturation and memory response in the nurse shark, <i>Ginglymostoma cirratum</i> . <i>European Journal of Immunology</i> , 2005, 35, 936-945.	1.6	140
69	Somatic Hypermutation and Junctional Diversification at Ig Heavy Chain Loci in the Nurse Shark. <i>Journal of Immunology</i> , 2005, 175, 8105-8115.	0.4	32
70	Shark Ig Light Chain Junctions Are as Diverse as in Heavy Chains. <i>Journal of Immunology</i> , 2004, 173, 5574-5582.	0.4	45
71	Unprecedented Multiplicity of Ig Transmembrane and Secretory mRNA Forms in the Cartilaginous Fish. <i>Journal of Immunology</i> , 2004, 173, 1129-1139.	0.4	57
72	Homologs of CD83 from Elasmobranch and Teleost Fish. <i>Journal of Immunology</i> , 2004, 173, 4553-4560.	0.4	72

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73	Another manifestation of GOD. Nature, 2004, 430, 157-158.	13.7	11
74	Diversity and repertoire of IgW and IgM VH families in the newborn nurse shark. BMC Immunology, 2004, 5, 8.	0.9	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.	6.0	282
77	Evolution of innate and adaptive immunity: can we draw a line?. Trends in Immunology, 2004, 25, 640-644.	2.9	230
78	Terminal deoxynucleotidyl transferases from elasmobranchs reveal structural conservation within vertebrates. Immunogenetics, 2003, 55, 594-604.	1.2	16
79	Two highly divergent ancient allelic lineages of the transporter associated with antigen processing (TAP) gene in <i>Xenopus</i> : further evidence for co-evolution among MHC class I region genes. European Journal of Immunology, 2003, 33, 3017-3027.	1.6	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.	1.0	168
81	J Chain in the Nurse Shark: Implications for Function in a Lower Vertebrate. Journal of Immunology, 2003, 170, 6016-6023.	0.4	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.	0.4	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.	0.4	71
84	Hypermutation in Shark Immunoglobulin Light Chain Genes Results in Contiguous Substitutions. Immunity, 2002, 16, 571-582.	6.6	93
85	The leukocyte common antigen (CD45) of the Pacific hagfish, <i>Eptatretus stoutii</i> : implications for the primordial function of CD45. Immunogenetics, 2002, 54, 286-291.	1.2	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.	1.2	97
87	The Development of Primary and Secondary Lymphoid Tissues in the Nurse Shark <i>Ginglymostoma cirratum</i> : 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.	1.3	110
88	Comparative analyses of immunoglobulin genes: surprises and portents. Nature Reviews Immunology, 2002, 2, 688-698.	10.6	334
89	The Translesion DNA Polymerase η Plays a Major Role in Ig and bcl-6 Somatic Hypermutation. Immunity, 2001, 14, 643-653.	6.6	199
90	Comparative Genomics of the MHC. Immunity, 2001, 15, 351-362.	6.6	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 δ . <i>Journal of Immunology</i> , 2001, 167, 327-335.	0.4	141
92	Evolution and the molecular basis of somatic hypermutation of antigen receptor genes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001, 356, 67-72.	1.8	24
93	Trans-species polymorphism of the major histocompatibility complex-encoded proteasome subunit LMP7 in an amphibian genus, <i>Xenopus</i> . <i>Immunogenetics</i> , 2000, 51, 186-192.	1.2	28
94	Rearrangement of Immunoglobulin Genes in Shark Germ Cells. <i>Journal of Experimental Medicine</i> , 2000, 191, 1637-1648.	4.2	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. <i>International Immunology</i> , 1999, 11, 825-833.	1.8	117
96	Insight into the primordial MHC from studies in ectothermic vertebrates. <i>Immunological Reviews</i> , 1999, 167, 59-67.	2.8	87
97	Churchill and the immune system of ectothermic vertebrates. <i>Immunological Reviews</i> , 1998, 166, 5-14.	2.8	29
98	IgM-mediated opsonization and cytotoxicity in the shark. <i>Journal of Leukocyte Biology</i> , 1997, 61, 141-146.	1.5	24
99	Involvement of Thyroid Hormones in the Expression of MHC class I Antigens During Ontogeny in <i>Xenopus</i> . <i>Autoimmunity</i> , 1997, 5, 133-144.	0.6	36
100	The immune system of ectothermic vertebrates. <i>Veterinary Immunology and Immunopathology</i> , 1996, 54, 145-150.	0.5	34
101	RING3 is linked to the <i>Xenopus</i> major histocompatibility complex. <i>Immunogenetics</i> , 1996, 44, 397-399.	1.2	13
102	A novel α -chimeric antibody class in cartilaginous fish: IgM may not be the primordial immunoglobulin. <i>European Journal of Immunology</i> , 1996, 26, 1123-1129.	1.6	113
103	Duplication of the MHC-linked <i>Xenopus</i> complement factor B gene. <i>Immunogenetics</i> , 1995, 42, 196-203.	1.2	22
104	A new antigen receptor gene family that undergoes rearrangement and extensive somatic diversification in sharks. <i>Nature</i> , 1995, 374, 168-173.	13.7	653
105	Evolution and Developmental Regulation of the Major Histocompatibility Complex. <i>Critical Reviews in Immunology</i> , 1995, 15, 31-75.	1.0	32
106	Evolution of the major histocompatibility complex: a current overview. <i>Transplant Immunology</i> , 1995, 3, 1-20.	0.6	54
107	Structural conservation of hypervariable regions in immunoglobulins evolution. <i>Nature Structural and Molecular Biology</i> , 1994, 1, 915-920.	3.6	44
108	Evolutionary conservation of MHC class I and class II molecules—different yet the same. <i>Seminars in Immunology</i> , 1994, 6, 411-424.	2.7	161

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109	The evolutionary origin of the major histocompatibility complex: Polymorphism of class II $\hat{\pm}$ chain genes in the cartilaginous fish. <i>European Journal of Immunology</i> , 1993, 23, 2160-2165.	1.6	65
110	Light chain heterogeneity in the amphibian <i>Xenopus</i> . <i>Molecular Immunology</i> , 1991, 28, 985-994.	1.0	48
111	Which came first, MHC class I or class II?. <i>Immunogenetics</i> , 1991, 33, 295-300.	1.2	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 <i>Xenopus</i> Development. <i>Autoimmunity</i> , 1990, 1, 85-95.	0.6	104
114	Evolution of the MHC: Antigenicity and unusual tissue distribution of <i>Xenopus</i> (frog) class II molecules. <i>Molecular Immunology</i> , 1990, 27, 451-462.	1.0	55
115	MHC class I antigens as surface markers of adult erythrocytes during the metamorphosis of <i>Xenopus</i> . <i>Developmental Biology</i> , 1988, 128, 198-206.	0.9	59
116	Changes in the immune system during metamorphosis of <i>Xenopus</i> . <i>Trends in Immunology</i> , 1987, 8, 58-64.	7.5	116
117	Immune responses of thymusf/lymphocyte embryonic chimeras: studies on tolerance and major histocompatibility complex restriction in <i>Xenopus</i> . <i>European Journal of Immunology</i> , 1985, 15, 540-547.	1.6	87
118	Studies on the <i>Xenopus</i> major histocompatibility complex. <i>Developmental and Comparative Immunology</i> , 1985, 9, 777-781.	1.0	13
119	Identification of class I major histocompatibility complex encoded molecules in the amphibian <i>Xenopus</i> . <i>Immunogenetics</i> , 1984, 20, 433-442.	1.2	66
120	Masanori Kasahara: Long-standing Immunogenetics co-editor steps down. <i>Immunogenetics</i> , 0, , .	1.2	0