Nicholas R J Gascoigne

List of Publications by Year
in descending order

134 papers	9,860 citations	44069 48 h-index	38395 95 g-index

134 all docs	134 docs citations	134 times ranked	12209 citing authors

#	Article	IF	Citations
1	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). European Journal of Immunology, 2019, 49, 1457-1973.	2.9	766
2	Selective development of CD4+ T cells in transgenic mice expressing a class II MHC-restricted antigen receptor. Nature, 1989, 341, 746-749.	27.8	609
3	T-cell-receptor affinity and thymocyte positive selection. Nature, 1996, 381, 616-620.	27.8	584
4	Thymic selection threshold defined by compartmentalization of Ras/MAPK signalling. Nature, 2006, 444, 724-729.	27.8	531
5	Developmental Analysis of Bone Marrow Neutrophils Reveals Populations Specialized in Expansion, Trafficking, and Effector Functions. Immunity, 2018, 48, 364-379.e8.	14.3	450
6	Somatic recombination in a murine T-cell receptor gene. Nature, 1984, 309, 322-326.	27.8	448
7	Genomic organization and sequence of T-cell receptor Î²-chain constant- and joining-region genes. Nature, 1984, 310, 387-391.	27.8	386
8	Photobleaching-Corrected FRET Efficiency Imaging of Live Cells. Biophysical Journal, 2004, 86, 3923-3939.	0.5	358
9	Hijacking and exploitation of IL-10 by intracellular pathogens. Trends in Microbiology, 2001, 9, 86-92.	7.7	292
10	The Impact of Duration versus Extent of TCR Occupancy on T Cell Activation. Immunity, 2001, 15, 59-70.	14.3	218
11	Qualitative and Quantitative Differences in T Cell Receptor Binding of Agonist and Antagonist Ligands. Immunity, 1999, 10, 227-237.	14.3	216
12	Intravital multiphoton imaging of immune responses in the mouse ear skin. Nature Protocols, 2012, 7, 221-234.	12.0	162
13	Combinatorial Single-Cell Analyses of Granulocyte-Monocyte Progenitor Heterogeneity Reveals an Early Uni-potent Neutrophil Progenitor. Immunity, 2020, 53, 303-318.e5.	14.3	153
14	Costimulatory Molecule DNAM-1 Is Essential for Optimal Differentiation of Memory Natural Killer Cells during Mouse Cytomegalovirus Infection. Immunity, 2014, 40, 225-234.	14.3	148
15	Variability and repertoire size of T-cell receptor VÎ± gene segments. Nature, 1985, 317, 430-434.	27.8	145
16	CD28 plays a critical role in the segregation of PKCÂ within the immunologic synapse. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9369-9373.	7.1	138
17	TCR affinity and negative regulation limit autoimmunity. Nature Medicine, 2004, 10, 1234-1239.	30.7	138
18	TCR Signal Strength and T Cell Development. Annual Review of Cell and Developmental Biology, 2016, 32, 327-348.	9.4	127

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19	Inhibition of T Cell Receptor-Coreceptor Interactions by Antagonist Ligands Visualized by Live FRET Imaging of the T-Hybridoma Immunological Synapse. Immunity, 2002, 16, 521-534.	14.3	124
20	Themis controls thymocyte selection through regulation of T cell antigen receptorâ€“mediated signaling. Nature Immunology, 2009, 10, 848-856.	14.5	122
21	Nonstimulatory peptides contribute to antigen-induced CD8â€“T cell receptor interaction at the immunological synapse. Nature Immunology, 2005, 6, 785-792.	14.5	120
22	The VÎ±14 NKT Cell TCR Exhibits High-Affinity Binding to a Glycolipid/CD1d Complex. Journal of Immunology, 2002, 169, 1340-1348.	0.8	119
23	Protein kinase C-Î· controls CTLA-4â€“mediated regulatory T cell function. Nature Immunology, 2014, 15, 465-472.	14.5	118
24	Monomeric TCRs drive T cell antigen recognition. Nature Immunology, 2018, 19, 487-496.	14.5	111
25	Themis sets the signal threshold for positive and negative selection in T-cell development. Nature, 2013, 504, 441-445.	27.8	99
26	A subset of Kupffer cells regulates metabolism through the expression of CD36. Immunity, 2021, 54, 2101-2116.e6.	14.3	99
27	Altered Peptide Ligands Induce Delayed CD8-T Cell Receptor Interactionâ€”a Role for CD8 in Distinguishing Antigen Quality. Immunity, 2006, 25, 203-211.	14.3	96
28	Signaling in thymic selection. Current Opinion in Immunology, 2011, 23, 207-212.	5.5	96
29	The Lupus-Related Lmb3 Locus Contains a Disease-Suppressing Coronin-1A Gene Mutation. Immunity, 2008, 28, 40-51.	14.3	95
30	T-cell receptor binding kinetics in T-cell development and activation. Expert Reviews in Molecular Medicine, 2001, 3, 1-17.	3.9	90
31	Spatiotemporal Patterning During T Cell Activation Is Highly Diverse. Science Signaling, 2009, 2, ra15.	3.6	88
32	A Murine T Cell Receptor Gene Complex: Isolation, Structure and Rearrangement. Immunological Reviews, 1984, 81, 235-258.	6.0	87
33	Enterotoxin residues determining T-cell receptor VÎ² binding specificity. Nature, 1992, 359, 841-843.	27.8	87
34	A <scp>THEMIS</scp> : <scp>SHP</scp> 1 complex promotes Tâ€cell survival. EMBO Journal, 2015, 34, 393-409.	7.8	84
35	Virus-specific T lymphocytes home to the skin during natural dengue infection. Science Translational Medicine, 2015, 7, 278ra35.	12.4	83
36	Signaling from T cell receptors (TCRs) and chimeric antigen receptors (CARs) on T cells. Cellular and Molecular Immunology, 2020, 17, 600-612.	10.5	82

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37	New insights into the interactions between Blastocystis, the gut microbiota, and host immunity. PLoS Pathogens, 2021, 17, e1009253.	4.7	76
38	T Cell Receptor (TCR)-induced Tyrosine Phosphorylation Dynamics Identifies THEMIS as a New TCR Signalosome Component. Journal of Biological Chemistry, 2011, 286, 7535-7547.	3.4	75
39	T-cell activation by superantigens. Current Opinion in Immunology, 1994, 6, 467-475.	5.5	74
40	GRB2-Mediated Recruitment of THEMIS to LAT Is Essential for Thymocyte Development. Journal of Immunology, 2013, 190, 3749-3756.	0.8	71
41	Fine-tuning T cell receptor signaling to control T cell development. Trends in Immunology, 2014, 35, 311-318.	6.8	67
42	Granulopoiesis and Neutrophil Homeostasis: A Metabolic, Daily Balancing Act. Trends in Immunology, 2019, 40, 598-612.	6.8	67
43	A Pivotal Role for the Multifunctional Calcium/Calmodulin-Dependent Protein Kinase II in T Cells: From Activation to Unresponsiveness. Journal of Immunology, 2005, 174, 5583-5592.	0.8	62
44	Ligand-engaged TCR is triggered by Lck not associated with CD8 coreceptor. Nature Communications, 2014, 5, 5624.	12.8	62
45	Neutrophils Self-Regulate Immune Complex-Mediated Cutaneous Inflammation through CXCL2. Journal of Investigative Dermatology, 2016, 136, 416-424.	0.7	62
46	Molecular interactions at the T cellâ€“antigen-presenting cell interface. Current Opinion in Immunology, 2004, 16, 114-119.	5.5	57
47	Using live FRET imaging to reveal early proteinâ€“protein interactions during T cell activation. Current Opinion in Immunology, 2004, 16, 418-427.	5.5	55
48	TCR Binding Kinetics Measured with MHC Class I Tetramers Reveal a Positive Selecting Peptide with Relatively High Affinity for TCR. Journal of Immunology, 2003, 171, 2427-2434.	0.8	53
49	Canonical T cell receptor docking on peptideâ€“MHC is essential for T cell signaling. Science, 2021, 372, .	12.6	53
50	Protein Kinase C Î· Is Required for T Cell Activation and Homeostatic Proliferation. Science Signaling, 2011, 4, ra84.	3.6	50
51	Thymic skewing of the CD4/CD8 ratio maps with the T-cell receptor Î±-chain locus. Current Biology, 1998, 8, 701-S3.	3.9	49
52	Preferential expression of TCR VÎ± regions in CD4/CD8 subsets: class discrimination or co-receptor recognition?. Trends in Immunology, 1998, 19, 276-282.	7.5	47
53	Cell Type-Specific Regulation of Immunological Synapse Dynamics by B7 Ligand Recognition. Frontiers in Immunology, 2016, 7, 24.	4.8	44
54	T-Cell Receptor beta-Chain Binding to Enterotoxin Superantigens. Immunological Reviews, 1993, 131, 61-78.	6.0	41

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55	Autoimmune responses and inflammation in type 2 diabetes. Journal of Leukocyte Biology, 2020, 107, 739-748.	3.3	41
56	Allelic exclusion of mouse T cell receptor Î± chains occurs at the time of thymocyte TCR up-regulation. Immunity, 1995, 3, 449-458.	14.3	39
57	T cell activation enhancement by endogenous pMHC acts for both weak and strong agonists but varies with differentiation state. Journal of Experimental Medicine, 2007, 204, 2747-2757.	8.5	39
58	CD40L Expression Allows CD8+ T Cells to Promote Their Own Expansion and Differentiation through Dendritic Cells. Frontiers in Immunology, 2017, 8, 1484.	4.8	37
59	T cell receptor and cytokine signal integration in CD8+ T cells is mediated by the protein Themis. Nature Immunology, 2020, 21, 186-198.	14.5	34
60	Allelic exclusion of the T cell receptor Î±-chain: developmental regulation of a post-translational event. Seminars in Immunology, 1999, 11, 337-347.	5.6	33
61	Allelic Exclusion of the TCR Î±-Chain Is an Active Process Requiring TCR-Mediated Signaling and c-Cbl. Journal of Immunology, 2003, 170, 4557-4563.	0.8	33
62	Coreceptor affinity for MHC defines peptide specificity requirements for TCR interaction with coagonist peptideâ€“MHC. Journal of Experimental Medicine, 2013, 210, 1807-1821.	8.5	32
63	THEMIS: a critical TCR signal regulator for ligand discrimination. Current Opinion in Immunology, 2015, 33, 86-92.	5.5	30
64	Interplay between superantigens and the immune system. Journal of Leukocyte Biology, 1993, 54, 495-503.	3.3	29
65	The T Cell Receptorâ€™s Î±-Chain Connecting Peptide Motif Promotes Close Approximation of the CD8 Coreceptor Allowing Efficient Signal Initiation. Journal of Immunology, 2008, 180, 8211-8221.	0.8	29
66	Lck bound to coreceptor is less active than free Lck. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15809-15817.	7.1	29
67	DUSP16 promotes cancer chemoresistance through regulation of mitochondria-mediated cell death. Nature Communications, 2021, 12, 2284.	12.8	28
68	Interaction of the T cell receptor with bacterial superantigens. Seminars in Immunology, 1993, 5, 13-21.	5.6	27
69	Defining the structural basis for human alloantibody binding to human leukocyte antigen allele HLA-A*11:01. Nature Communications, 2019, 10, 893.	12.8	26
70	Do T cells need endogenous peptides for activation?. Nature Reviews Immunology, 2008, 8, 895-900.	22.7	25
71	A high content imaging flow cytometry approach to study mitochondria in T cells: MitoTracker Green FM dye concentration optimization. Methods, 2018, 134-135, 11-19.	3.8	25
72	Initiation of TCR Phosphorylation and Signal Transduction. Frontiers in Immunology, 2011, 2, 72.	4.8	24

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73	Efficient aortic lymphatic drainage is necessary for atherosclerosis regression induced by ezetimibe. Science Advances, 2020, 6, .	10.3	24
74	Immune Checkpoints in Viral Latency. Annual Review of Microbiology, 2001, 55, 531-560.	7.3	21
75	Themis-associated phosphatase activity controls signaling in T cell development. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11331-E11340.	7.1	21
76	The Ups and Downs of Metabolism during the Lifespan of a T Cell. International Journal of Molecular Sciences, 2020, 21, 7972.	4.1	21
77	Suppression of the cytotoxic T cell response to minor alloantigensin vivo Linked recognition by suppressor T cells. European Journal of Immunology, 1984, 14, 210-215.	2.9	19
78	Spectral Shift of Fluorescent Dye FM4-64 Reveals Distinct Microenvironment of Nuclear Envelope in Living Cells. Traffic, 2006, 7, 1607-1613.	2.7	17
79	Targeting Epstein-Barr virusâ€“transformed B lymphoblastoid cells using antibodies with T-cell receptorâ€“like specificities. Blood, 2016, 128, 1396-1407.	1.4	17
80	Multiplexed labeling of samples with cell tracking dyes facilitates rapid and accurate internally controlled calcium flux measurement by flow cytometry. Journal of Immunological Methods, 2009, 350, 194-199.	1.4	16
81	CXCR4 signaling controls dendritic cell location and activation at steady state and in inflammation. Blood, 2021, 137, 2770-2784.	1.4	16
82	Visualization of bone marrow monocyte mobilization using Cx3cr1gfp/+Flt3Lâ^'/â^' reporter mouse by multiphoton intravital microscopy. Journal of Leukocyte Biology, 2015, 97, 611-619.	3.3	15
83	Development of a screening strategy for new modulators of T cell receptor signaling and T cell activation. Scientific Reports, 2018, 8, 10046.	3.3	15
84	Single Molecule Force Spectroscopy Reveals Distinctions in Key Biophysical Parameters of Î±Î² T-Cell Receptors Compared with Chimeric Antigen Receptors Directed at the Same Ligand. Journal of Physical Chemistry Letters, 2021, 12, 7566-7573.	4.6	15
85	Thymic Origins of T Cell Receptor Alloreactivity. Transplantation, 2017, 101, 1535-1541.	1.0	14
86	TCRâ€“like antibodies mediate complement and antibody-dependent cellular cytotoxicity against Epstein-Barr virusâ€“transformed B lymphoblastoid cells expressing different HLA-A*02 microvariants. Scientific Reports, 2017, 7, 9923.	3.3	14
87	Negative Selection Assay Based on Stimulation of T Cell Receptor Transgenic Thymocytes with Peptide-MHC Tetramers. PLoS ONE, 2012, 7, e43191.	2.5	14
88	Co-Receptors and Recognition of Self at the Immunological Synapse. Current Topics in Microbiology and Immunology, 2010, 340, 171-189.	1.1	13
89	CD8Î±Î± and â€ŒÎ±Î² isotypes are equally recruited to the immunological synapse through their ability to bind to MHC class I. EMBO Reports, 2011, 12, 1251-1256.	4.5	13
90	T Cell Receptor Structures: Three for the Price of One. Immunity, 2011, 35, 1-3.	14.3	13

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91	Identification of a novel lymphoid population in the murine epidermis. Scientific Reports, 2015, 5, 12554.	3.3	13
92	Surprisingly minor influence of TRAV11 (VÎ±14) polymorphism on NK T-receptor mCD1/Îµ-galactosylceramide binding kinetics. Immunogenetics, 2003, 54, 874-883.	2.4	12
93	Thymocyte stimulation by anti-TCR-Î², but not by anti-TCR-Îµ, leads to induction of developmental transcription program. Journal of Leukocyte Biology, 2005, 77, 830-841.	3.3	12
94	Nonstimulatory peptideâ€“MHC enhances human T-cell antigen-specific responses by amplifying proximal TCR signaling. Nature Communications, 2018, 9, 2716.	12.8	12
95	Taming the Sentinels: Microbiome-Derived Metabolites and Polarization of T Cells. International Journal of Molecular Sciences, 2020, 21, 7740.	4.1	12
96	The Role of Protein Kinase CÎ· in T Cell Biology. Frontiers in Immunology, 2012, 3, 177.	4.8	11
97	Themis is indispensable for IL-2 and IL-15 signaling in T cells. Science Signaling, 2022, 15, eabi9983.	3.6	11
98	A Dual Inhibitor of Cdc7/Cdk9 Potently Suppresses T Cell Activation. Frontiers in Immunology, 2019, 10, 1718.	4.8	10
99	Themis regulates metabolic signaling and effector functions in CD4+ T cells by controlling NFAT nuclear translocation. Cellular and Molecular Immunology, 2021, 18, 2249-2261.	10.5	10
100	Allelic Exclusion of TCR Îµ-Chains upon Severe Restriction of VÎ± Repertoire. PLoS ONE, 2014, 9, e114320.	2.5	10
101	T helper cell lines that augment in vivo cytotoxic T-cell responses to minor alloantigens. Cellular Immunology, 1984, 83, 302-312.	3.0	9
102	T-cell Differentiation: MHC Class I's Sweet Tooth Lost on Maturity. Current Biology, 2002, 12, R99-R101.	3.9	9
103	Inducing Ischemia-reperfusion Injury in the Mouse Ear Skin for Intravital Multiphoton Imaging of Immune Responses. Journal of Visualized Experiments, 2016, , .	0.3	9
104	Targeting CAR to the Peptide-MHC Complex Reveals Distinct Signaling Compared to That of TCR in a Jurkat T Cell Model. Cancers, 2021, 13, 867.	3.7	9
105	Role of the T cell receptor alpha chain in the development and phenotype of naturally arising CD4CD25 T cells. Molecular Immunology, 2006, 43, 246-254.	2.2	8
106	In Silico Modeling of Itk Activation Kinetics in Thymocytes Suggests Competing Positive and Negative IP4 Mediated Feedbacks Increase Robustness. PLoS ONE, 2013, 8, e73937.	2.5	8
107	Streamlining volumetric multi-channel image cytometry using hue-saturation-brightness-based surface creation. Communications Biology, 2018, 1, 136.	4.4	8
108	Identification of Mediators of T-cell Receptor Signaling via the Screening of Chemical Inhibitor Libraries. Journal of Visualized Experiments, 2019, , .	0.3	8

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109	Selection of TCR VÎ± by MHC class II predicts superantigen reactivity. International Immunology, 1995, 7, 1311-1318.	4.0	7
110	Distinct Footprints of TCR Engagement with Highly Homologous Ligands. Journal of Immunology, 2004, 172, 7466-7475.	0.8	7
111	Tespa1: another gatekeeper for positive selection. Nature Immunology, 2012, 13, 530-532.	14.5	7
112	Positive selection in a Schnurri. Nature Immunology, 2001, 2, 989-991.	14.5	6
113	Use of Single Chain MHC Technology to Investigate Co-agonism in Human CD8+ T Cell Activation. Journal of Visualized Experiments, 2019, , .	0.3	6
114	Defining the structural basis for human leukocyte antigen reactivity in clinical transplantation. Scientific Reports, 2020, 10, 18397.	3.3	6
115	Suppression of the cytotoxic T cell response to minor alloantigensin vivo II. Fine specificity of suppressor T cells and lack of restriction by immunoglobulin heavy chain-linked gene products. European Journal of Immunology, 1984, 14, 677-680.	2.9	5
116	T Cell Receptor Binding Kinetics and Special Role of VÎ± in T Cell Development and Activation. Immunologic Research, 2000, 21, 225-232.	2.9	5
117	Expansion of an Unusual Virtual Memory CD8+ Subpopulation Bearing VÎ±3.2 TCR in Themis-Deficient Mice. Frontiers in Immunology, 2021, 12, 644483.	4.8	5
118	Chromosome 14 in B10.A(18R) mice is recombinant and includes Tcra-V a alleles. Immunogenetics, 1992, 35, 190-198.	2.4	4
119	CD8+ thymocyte differentiation: T cell two-step. Nature Immunology, 2010, 11, 189-190.	14.5	4
120	T-cell receptor gene structure and function. Cellular Immunology, 1986, 99, 24-28.	3.0	3
121	The mouse Supt16h/Fact140 gene, encoding part of the FACT chromatin transcription complex, maps close to Tcra and is highly expressed in thymus. Mammalian Genome, 2001, 12, 664-667.	2.2	3
122	Protein kinase CÎ·, an emerging player in T-cell biology. Cell Cycle, 2012, 11, 837-838.	2.6	3
123	SHP1â€ing thymic selection. European Journal of Immunology, 2016, 46, 2091-2094.	2.9	3
124	CD8+ T cells have commitment issues. Nature Immunology, 2018, 19, 797-799.	14.5	3
125	Multi-modal image cytometry approach â€“ From dynamic to whole organ imaging. Cellular Immunology, 2019, 344, 103946.	3.0	3
126	Single Cell Analysis of Drug Susceptibility of Mycobacterium abscessus during Macrophage Infection. Antibiotics, 2020, 9, 711.	3.7	3

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127	Selection of phage-displayed superantigen by binding to cell-surface MHC class II. Journal of Immunological Methods, 1997, 204, 33-41.	1.4	2
128	Too Fast to Die. Science Signaling, 2013, 6, pe33.	3.6	1
129	Reprint of â€œMulti-modal image cytometry approach â€“ From dynamic to whole organ imagingâ€• Cellular Immunology, 2020, 350, 104086.	3.0	1
130	Natural killer cells: Influence of the home environment. Current Biology, 1997, 7, R624-R626.	3.9	0
131	Corrigendum to ``Selection of phage-displayed superantigen by binding to cell-surface MHC class II'' [J. Immunol. Methods 204 (1997) 33â€“41]. Journal of Immunological Methods, 1997, 210, 251.	1.4	0
132	Tolerance lies in the timing. Nature, 2014, 515, 502-503.	27.8	0
133	Vive la peptide diffÃ©rence!. Nature Immunology, 2016, 17, 896-898.	14.5	0
134	Non-Stimulatory pMHC Enhance CD8 T Cell Effector Functions by Recruiting Coreceptor-Bound Lck. Frontiers in Immunology, 2021, 12, 721722.	4.8	0