Nicole L La Gruta

List of Publications by Year
in descending order

85 papers	5,669 citations	87888 38 h-index	85541 71 g-index
87 all docs	87 docs citations	87 times ranked	8457 citing authors

#	Article	IF	Citations
1	Quantifiable predictive features define epitope-specific T cell receptor repertoires. Nature, 2017, 547, 89-93.	27.8	723
2	A question of selfâ€preservation: immunopathology in influenza virus infection. Immunology and Cell Biology, 2007, 85, 85-92.	2.3	399
3	A molecular basis for the association of the HLA-DRB1 locus, citrullination, and rheumatoid arthritis. Journal of Experimental Medicine, 2013, 210, 2569-2582.	8.5	354
4	Understanding the drivers of MHC restriction of T cell receptors. Nature Reviews Immunology, 2018, 18, 467-478.	22.7	214
5	Age-Related Decline in Primary CD8+ T Cell Responses Is Associated with the Development of Senescence in Virtual Memory CD8+ T Cells. Cell Reports, 2018, 23, 3512-3524.	6.4	194
6	Hierarchies in Cytokine Expression Profiles for Acute and Resolving Influenza Virus-Specific CD8+ T Cell Responses: Correlation of Cytokine Profile and TCR Avidity. Journal of Immunology, 2004, 172, 5553-5560.	0.8	185
7	Dominant protection from HLA-linked autoimmunity by antigen-specific regulatory T cells. Nature, 2017, 545, 243-247.	27.8	181
8	T-cell receptor recognition of HLA-DQ2â€“gliadin complexes associated with celiac disease. Nature Structural and Molecular Biology, 2014, 21, 480-488.	8.2	177
9	A virus-specific CD8+ T cell immunodominance hierarchy determined by antigen dose and precursor frequencies. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 994-999.	7.1	149
10	Lack of prominent peptideâ€“major histocompatibility complex features limits repertoire diversity in virus-specific CD8+ T cell populations. Nature Immunology, 2005, 6, 382-389.	14.5	142
11	Primary CTL response magnitude in mice is determined by the extent of naive T cell recruitment and subsequent clonal expansion. Journal of Clinical Investigation, 2010, 120, 1885-1894.	8.2	140
12	T cell mediated immunity to influenza: mechanisms of viral control. Trends in Immunology, 2014, 35, 396-402.	6.8	135
13	The Majority of Immunogenic Epitopes Generate CD4+ T Cells That Are Dependent on MHC Class II-Bound Peptide-Flanking Residues. Journal of Immunology, 2002, 169, 739-749.	0.8	114
14	Sizing up the key determinants of the CD8+ T cell response. Nature Reviews Immunology, 2015, 15, 705-716.	22.7	111
15	Clonally diverse CD38+HLA-DR+CD8+ T cells persist during fatal H7N9 disease. Nature Communications, 2018, 9, 824.	12.8	107
16	Most viral peptides displayed by class I MHC on infected cells are immunogenic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3112-3117.	7.1	104
17	A trans -Golgi network golgin is required for the regulated secretion of TNF in activated macrophages in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3351-3356.	7.1	93
18	Evaluation of inflammation and follicle depletion during ovarian ageing in mice. Scientific Reports, 2021, 11, 278.	3.3	84

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19	Reversed T Cell Receptor Docking on a Major Histocompatibility Class I Complex Limits Involvement in the Immune Response. Immunity, 2016, 45, 749-760.	14.3	73
20	Quantification of epitope abundance reveals the effect of direct and cross-presentation on influenza CTL responses. Nature Communications, 2019, 10, 2846.	12.8	70
21	The structural basis for autonomous dimerization of the pre-T-cell antigen receptor. Nature, 2010, 467, 844-848.	27.8	68
22	Ecological analysis of antigen-specific CTL repertoires defines the relationship between naÃ¯ve and immune T-cell populations. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1839-1844.	7.1	66
23	Dendritic cell preactivation impairs MHC class II presentation of vaccines and endogenous viral antigens. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17753-17758.	7.1	64
24	Protective Efficacy of Cross-Reactive CD8+ T Cells Recognising Mutant Viral Epitopes Depends on Peptide-MHC-I Structural Interactions and T Cell Activation Threshold. PLoS Pathogens, 2010, 6, e1001039.	4.7	62
25	Contribution of T cell receptor affinity to overall avidity for virus-specific CD8+ T cell responses. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11432-11437.	7.1	58
26	Functional implications of T cell receptor diversity. Current Opinion in Immunology, 2009, 21, 286-290.	5.5	57
27	PTPN2 attenuates T-cell lymphopenia-induced proliferation. Nature Communications, 2014, 5, 3073.	12.8	55
28	Ubiquitin ligase MARCH 8 cooperates with CD83 to control surface MHC II expression in thymic epithelium and CD4 T cell selection. Journal of Experimental Medicine, 2016, 213, 1695-1703.	8.5	55
29	Establishment and recall of CD8 + Tâ€cell memory in a model of localized transient infection. Immunological Reviews, 2006, 211, 133-145.	6.0	54
30	Cell Cycle-Related Acquisition of Cytotoxic Mediators Defines the Progressive Differentiation to Effector Status for Virus-Specific CD8+ T Cells. Journal of Immunology, 2008, 181, 3818-3822.	0.8	54
31	IL-18, but not IL-12, is required for optimal cytokine production by influenza virus-specific CD8+ T cells. European Journal of Immunology, 2007, 37, 368-375.	2.9	53
32	Canonical T cell receptor docking on peptideâ€“MHC is essential for T cell signaling. Science, 2021, 372, .	12.6	53
33	Epitope-specific TCRÎ² repertoire diversity imparts no functional advantage on the CD8⁺T cell response to cognate viral peptides. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2034-2039.	7.1	50
34	Consistency in Polyclonal T-cell Responses to Gluten Between Children and Adults With Celiac Disease. Gastroenterology, 2015, 149, 1541-1552.e2.	1.3	46
35	Heightened self-reactivity associated with selective survival, but not expansion, of naÃ¯ve virus-specific CD8 ⁺ T cells in aged mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1333-1338.	7.1	45
36	A Natural Peptide Antigen within the Plasmodium Ribosomal Protein RPL6 Confers Liver TRM Cell-Mediated Immunity against Malaria in Mice. Cell Host and Microbe, 2020, 27, 950-962.e7.	11.0	45

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37	Tracking phenotypically and functionally distinct T cell subsets via T cell repertoire diversity. Molecular Immunology, 2008, 45, 607-618.	2.2	44
38	Structural basis for enabling T-cell receptor diversity within biased virus-specific CD8 ⁺ T-cell responses. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9536-9541.	7.1	43
39	Precursor Frequency and Competition Dictate the HLA-A2â€“Restricted CD8+ T Cell Responses to Influenza A Infection and Vaccination in HLA-A2.1 Transgenic Mice. Journal of Immunology, 2011, 187, 1895-1902.	0.8	43
40	CD4⁺T help promotes influenza virus-specific CD8⁺T cell memory by limiting metabolic dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4481-4488.	7.1	42
41	Characterization of CD8+ T cell repertoire diversity and persistence in the influenza A virus model of localized, transient infection. Seminars in Immunology, 2004, 16, 179-184.	5.6	40
42	Paired TCRÎ±Î² analysis of virusâ€specific CD8⁺ T cells exposes diversity in a previously defined â€˜narrowâ€™ repertoire. Immunology and Cell Biology, 2015, 93, 804-814.	2.3	40
43	Differential tumor necrosis factor receptor 2-mediated editing of virus-specific CD8+ effector T cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3545-3550.	7.1	39
44	Reproducible selection of high avidity CD8 ⁺ T-cell clones following secondary acute virus infection. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1485-1490.	7.1	38
45	Immunopathogenesis, loss of T cell tolerance and genetics of autoimmune gastritis. Autoimmunity Reviews, 2002, 1, 290-297.	5.8	36
46	Antigen Specificity of Type I NKT Cells Is Governed by TCR Î²-Chain Diversity. Journal of Immunology, 2015, 195, 4604-4614.	0.8	36
47	A correlation between function and selected measures of T cell avidity in influenza virus-specific CD8+ T cell responses. European Journal of Immunology, 2006, 36, 2951-2959.	2.9	35
48	Altered CD8+ T Cell Immunodominance after Vaccinia Virus Infection and the Naive Repertoire in Inbred and F1 Mice. Journal of Immunology, 2010, 184, 45-55.	0.8	34
49	Simulation modelling for immunologists. Nature Reviews Immunology, 2020, 20, 186-195.	22.7	34
50	Immune cellular networks underlying recovery from influenza virus infection in acute hospitalized patients. Nature Communications, 2021, 12, 2691.	12.8	34
51	Metabolic characteristics of CD8+ T cell subsets in young and aged individuals are not predictive of functionality. Nature Communications, 2020, 11, 2857.	12.8	33
52	Architectural Changes in the TCR:CD3 Complex Induced by MHC:Peptide Ligation. Journal of Immunology, 2004, 172, 3662-3669.	0.8	30
53	The clock is ticking: the impact of ageing on T cell metabolism. Clinical and Translational Immunology, 2019, 8, e01091.	3.8	30
54	The Influenza Virusâ€“Specific CTL Immunodominance Hierarchy in Mice Is Determined by the Relative Frequency of High-Avidity T Cells. Journal of Immunology, 2014, 192, 4061-4068.	0.8	28

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55	Reliable generation and use of MHC class II:Î²2aFc multimers for the identification of antigen-specific CD4+ T cells. Journal of Immunological Methods, 2002, 271, 137-151.	1.4	27
56	Effector CD8+ T cells recovered from an influenza pneumonia differentiate to a state of focused gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6074-6079.	7.1	26
57	Modelling cross-reactivity and memory in the cellular adaptive immune response to influenza infection in the host. Journal of Theoretical Biology, 2017, 413, 34-49.	1.7	24
58	Terminal Deoxynucleotidyltransferase Is Required for the Establishment of Private Virus-Specific CD8+ TCR Repertoires and Facilitates Optimal CTL Responses. Journal of Immunology, 2008, 181, 2556-2562.	0.8	23
59	T cell receptor recognition of hybrid insulin peptides bound to HLA-DQ8. Nature Communications, 2021, 12, 5110.	12.8	22
60	KDM6B-dependent chromatin remodeling underpins effective virus-specific CD8+ TÂcell differentiation. Cell Reports, 2021, 34, 108839.	6.4	20
61	Effect of MHC Class I Diversification on Influenza Epitope-Specific CD8+T Cell Precursor Frequency and Subsequent Effector Function. Journal of Immunology, 2011, 186, 6319-6328.	0.8	19
62	Interrogating the relationship between naÃ¯ve and immune antiviral T cell repertoires. Current Opinion in Virology, 2013, 3, 447-451.	5.4	18
63	Targeting BMI-1 in B cells restores effective humoral immune responses and controls chronic viral infection. Nature Immunology, 2022, 23, 86-98.	14.5	17
64	Modified Vaccinia Virus Ankara Can Induce Optimal CD8 + T Cell Responses to Directly Primed Antigens Depending on Vaccine Design. Journal of Virology, 2019, 93, .	3.4	16
65	Nfkb2 variants reveal a p100-degradation threshold that defines autoimmune susceptibility. Journal of Experimental Medicine, 2021, 218, .	8.5	16
66	Unlike CD4⁺ Tâ€cell help, CD28 costimulation is necessary for effective primary CD8⁺ Tâ€cell influenzaâ€specific immunity. European Journal of Immunology, 2012, 42, 1744-1754.	2.9	14
67	The shared susceptibility epitope of HLA-DR4 binds citrullinated self-antigens and the TCR. Science Immunology, 2021, 6, .	11.9	14
68	Influenza Epitope-Specific CD8+ T Cell Avidity, but Not Cytokine Polyfunctionality, Can Be Determined by TCRÎ² Clonotype. Journal of Immunology, 2010, 185, 6850-6856.	0.8	13
69	Thymic Expression of a Gastritogenic Epitope Results in Positive Selection of Self-Reactive Pathogenic T Cells. Journal of Immunology, 2004, 172, 5994-6002.	0.8	11
70	Hiding in Plain Sight: Virtually Unrecognizable Memory Phenotype CD8+ T cells. International Journal of Molecular Sciences, 2020, 21, 8626.	4.1	11
71	Characterisation of clinical and immune reactivity to barley and rye ingestion in children with coeliac disease. Gut, 2020, 69, 830-840.	12.1	10
72	Influenza-induced, helper-independent CD8+T cell responses use CD40 costimulation at the late phase of the primary response. Journal of Leukocyte Biology, 2013, 93, 145-154.	3.3	9

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73	Overlapping Peptides Elicit Distinct CD8+ T Cell Responses following Influenza A Virus Infection. Journal of Immunology, 2020, 205, 1731-1742.	0.8	9
74	Multiplexed combinatorial tetramer staining in a mouse model of virus infection. Journal of Immunological Methods, 2010, 360, 157-161.	1.4	8
75	Extrinsically derived TNF is primarily responsible for limiting antiviral CD8+ T cell response magnitude. PLoS ONE, 2017, 12, e0184732.	2.5	8
76	CD8⁺T-Cell Memory: The Why, the When, and the How. Cold Spring Harbor Perspectives in Biology, 2021, 13, a038661.	5.5	7
77	Targeted deletion of Traf2 allows immunosuppression-free islet allograft survival in mice. Diabetologia, 2017, 60, 679-689.	6.3	6
78	Fixed Expression of Single Influenza Virusâ€“Specific TCR Chains Demonstrates the Capacity for TCR Î±â€“ and Î²â€“Chain Diversity in the Face of Peptideâ€“MHC Class I Specificity. Journal of Immunology, 2015, 194, 898-910.	0.8	5
79	CD4+CD8Î²+ double-positive T cells in skin-draining lymph nodes respond to inflammatory signals from the skin. Journal of Leukocyte Biology, 2017, 102, 837-844.	3.3	5
80	MHC Restriction: Where Are We Now?. Viral Immunology, 2020, 33, 179-187.	1.3	5
81	The linear range for accurately quantifying antigenâ€specific Tâ€cell frequencies by tetramer staining during natural immune responses. European Journal of Immunology, 2011, 41, 1499-1500.	2.9	4
82	Role of CD8+T-cell immunity in influenza infection: potential use in future vaccine development. Expert Review of Respiratory Medicine, 2009, 3, 523-537.	2.5	3
83	The Impact of MHC Class I Dose on Development and Maintenance of the Polyclonal Naive CD8+ T Cell Repertoire. Journal of Immunology, 2020, 204, 3108-3116.	0.8	3
84	T cells recognizing a 11mer influenza peptide complexed to Hâ€2D b show promiscuity for peptide length. Immunology and Cell Biology, 2015, 93, 500-507.	2.3	1
85	Forewarned Is Forearmed. Immunity, 2010, 33, 5-6.	14.3	0