Neil A Mabbott

List of Publications by Year
in descending order

129 papers	7,161 citations	50170 46 h-index	66788 78 g-index
142 all docs	142 docs citations	142 times ranked	7913 citing authors

#	Article	IF	Citations
1	Microfold (M) cells: important immunosurveillance posts in the intestinal epithelium. Mucosal Immunology, 2013, 6, 666-677.	2.7	549
2	An expression atlas of human primary cells: inference of gene function from coexpression networks. BMC Genomics, 2013, 14, 632.	1.2	347
3	Scrapie replication in lymphoid tissues depends on prion protein-expressing follicular dendritic cells. Nature Medicine, 1999, 5, 1308-1312.	15.2	345
4	Temporary inactivation of follicular dendritic cells delays neuroinvasion of scrapie. Nature Medicine, 2000, 6, 719-720.	15.2	214
5	Temporary depletion of complement component C3 or genetic deficiency of C1q significantly delays onset of scrapie. Nature Medicine, 2001, 7, 485-487.	15.2	206
6	Deletion of a Csf1r enhancer selectively impacts CSF1R expression and development of tissue macrophage populations. Nature Communications, 2019, 10, 3215.	5.8	191
7	Migrating intestinal dendritic cells transport PrPSc from the gut. Journal of General Virology, 2002, 83, 267-271.	1.3	180
8	Prions and their lethal journey to the brain. Nature Reviews Microbiology, 2006, 4, 201-211.	13.6	172
9	Bovine cryptosporidiosis: impact, host-parasite interaction and control strategies. Veterinary Research, 2017, 48, 42.	1.1	171
10	The role of CSF1R-dependent macrophages in control of the intestinal stem-cell niche. Nature Communications, 2018, 9, 1272.	5.8	155
11	Salmonella Transforms Follicle-Associated Epithelial Cells into M Cells to Promote Intestinal Invasion. Cell Host and Microbe, 2012, 12, 645-656.	5.1	144
12	Sestrins induce natural killer function in senescent-like CD8+ T cells. Nature Immunology, 2020, 21, 684-694.	7.0	139
13	Follicular Dendritic Cell Dedifferentiation by Treatment with an Inhibitor of the Lymphotoxin Pathway Dramatically Reduces Scrapie Susceptibility. Journal of Virology, 2003, 77, 6845-6854.	1.5	136
14	Type I interferon induces CXCL13 to support ectopic germinal center formation. Journal of Experimental Medicine, 2019, 216, 621-637.	4.2	130
15	Tumor Necrosis Factor Alpha-Deficient, but Not Interleukin-6-Deficient, Mice Resist Peripheral Infection with Scrapie. Journal of Virology, 2000, 74, 3338-3344.	1.5	115
16	Pleiotropic Impacts of Macrophage and Microglial Deficiency on Development in Rats with Targeted Mutation of the <i>Csf1r</i> Locus. Journal of Immunology, 2018, 201, 2683-2699.	0.4	114
17	Antigen-presenting ILC3 regulate T cellâ€“dependent IgA responses to colonic mucosal bacteria. Journal of Experimental Medicine, 2019, 216, 728-742.	4.2	113
18	Tâ€lymphocyte activation and the cellular form of the prion protein. Immunology, 1997, 92, 161-165.	2.0	107

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19	Prion Uptake in the Gut: Identification of the First Uptake and Replication Sites. PLoS Pathogens, 2011, 7, e1002449.	2.1	103
20	Follicular Dendritic Cell-Specific Prion Protein (PrPc) Expression Alone Is Sufficient to Sustain Prion Infection in the Spleen. PLoS Pathogens, 2011, 7, e1002402.	2.1	89
21	M cell-depletion blocks oral prion disease pathogenesis. Mucosal Immunology, 2012, 5, 216-225.	2.7	88
22	Characterisation of a Novel Fc Conjugate of Macrophage Colony-stimulating Factor. Molecular Therapy, 2014, 22, 1580-1592.	3.7	88
23	The Influence of Parasite Infections on Host Immunity to Co-infection With Other Pathogens. Frontiers in Immunology, 2018, 9, 2579.	2.2	87
24	Pleiotropic effects of extended blockade of CSF1R signaling in adult mice. Journal of Leukocyte Biology, 2014, 96, 265-274.	1.5	86
25	The Characterization of Varicella Zoster Virusâ€“Specific T Cells in Skin and Blood during Aging. Journal of Investigative Dermatology, 2015, 135, 1752-1762.	0.3	86
26	Meta-analysis of lineage-specific gene expression signatures in mouse leukocyte populations. Immunobiology, 2010, 215, 724-736.	0.8	81
27	The functional maturation of M cells is dramatically reduced in the Peyer's patches of aged mice. Mucosal Immunology, 2013, 6, 1027-1037.	2.7	80
28	Aging and the mucosal immune system in the intestine. Biogerontology, 2015, 16, 133-145.	2.0	76
29	Enhancement of cutaneous immunity during aging by blocking p38 mitogen-activated protein (MAP) kinaseâ€“induced inflammation. Journal of Allergy and Clinical Immunology, 2018, 142, 844-856.	1.5	75
30	An endogenous nanomineral chaperones luminal antigen and peptidoglycan to intestinal immune cells. Nature Nanotechnology, 2015, 10, 361-369.	15.6	73
31	The immunobiology of TSE diseases. Journal of General Virology, 2001, 82, 2307-2318.	1.3	70
32	Bone marrow nitric oxide production and development of anemia in Trypanosoma brucei-infected mice. Infection and Immunity, 1995, 63, 1563-1566.	1.0	70
33	Nitric oxide-mediated suppression of T cell responses duringTrypanosoma brucei infection: soluble trypanosome products and interferon-Î³ are synergistic inducers of nitric oxide synthase. European Journal of Immunology, 1996, 26, 539-543.	1.6	69
34	Inhibition of nitric oxide synthesis leads to reduced parasitemia in murine Trypanosoma brucei infection. Infection and Immunity, 1994, 62, 2135-2137.	1.0	67
35	Role of the GALT in Scrapie Agent Neuroinvasion from the Intestine. Journal of Immunology, 2007, 178, 3757-3766.	0.4	64
36	Can DCs be distinguished from macrophages by molecular signatures?. Nature Immunology, 2013, 14, 187-189.	7.0	64

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37	Suppressor macrophages in <i>Trypanosoma brucei</i> infection: nitric oxide is related to both suppressive activity and lifespan <i>in vivo</i>. Parasite Immunology, 1995, 17, 143-150.	0.7	63
38	In Vivo Depletion of CD11c+ Cells Impairs Scrapie Agent Neuroinvasion from the Intestine. Journal of Immunology, 2007, 179, 7758-7766.	0.4	60
39	Development of in vitro enteroids derived from bovine small intestinal crypts. Veterinary Research, 2018, 49, 54.	1.1	58
40	Follicular dendritic cells in TSE pathogenesis. Trends in Immunology, 2000, 21, 442-446.	7.5	56
41	Macrophage colony-stimulating factor (CSF1) controls monocyte production and maturation and the steady-state size of the liver in pigs. American Journal of Physiology - Renal Physiology, 2016, 311, G533-G547.	1.6	55
42	Activated Peyerâ€²s patch B cells sample antigen directly from M cells in the subepithelial dome. Nature Communications, 2019, 10, 2423.	5.8	55
43	The Effects of Host Age on Follicular Dendritic Cell Status Dramatically Impair Scrapie Agent Neuroinvasion in Aged Mice. Journal of Immunology, 2009, 183, 5199-5207.	0.4	54
44	Temporary Blockade of the Tumor Necrosis Factor Receptor Signaling Pathway Impedes the Spread of Scrapie to the Brain. Journal of Virology, 2002, 76, 5131-5139.	1.5	52
45	Influence of ageing on the microarchitecture of the spleen and lymph nodes. Biogerontology, 2017, 18, 723-738.	2.0	52
46	Structural and functional changes to lymph nodes in ageing mice. Immunology, 2017, 151, 239-247.	2.0	51
47	Expression of mesenchyme-specific gene signatures by follicular dendritic cells: insights from the meta-analysis of microarray data from multiple mouse cell populations. Immunology, 2011, 133, 482-498.	2.0	50
48	The MacBlue Binary Transgene (csf1r-gal4VP16/UAS-ECFP) Provides a Novel Marker for Visualisation of Subsets of Monocytes, Macrophages and Dendritic Cells and Responsiveness to CSF1 Administration. PLoS ONE, 2014, 9, e105429.	1.1	48
49	Nitric oxide produced in the lungs of mice immunized with the radiationâ€attenuated schistosome vaccine is not the major agent causing challenge parasite elimination. Immunology, 1998, 93, 55-63.	2.0	47
50	Involvement of the immune system in TSE pathogenesis. Trends in Immunology, 1998, 19, 201-203.	7.5	45
51	Inside-out chicken enteroids with leukocyte component as a model to study hostâ€"pathogen interactions. Communications Biology, 2021, 4, 377.	2.0	45
52	Prion Disease and the Innate Immune System. Viruses, 2012, 4, 3389-3419.	1.5	42
53	Ageing adversely affects the migration and function of marginal zone B cells. Immunology, 2017, 151, 349-362.	2.0	42
54	Shiga toxin sub-type 2a increases the efficiency of Escherichia coli O157 transmission between animals and restricts epithelial regeneration in bovine enteroids. PLoS Pathogens, 2019, 15, e1008003.	2.1	42

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55	Identification of coâ€expressed gene signatures in mouse <scp>B</scp>1, marginal zone and <scp>B</scp>2 <scp>B</scp>â€cell populations. Immunology, 2014, 141, 79-95.	2.0	41
56	Defining the anatomical localisation of subsets of the murine mononuclear phagocyte system using integrin alpha X (Itgax, CD11c) and colony stimulating factor 1 receptor (Csf1r, CD115) expression fails to discriminate dendritic cells from macrophages. Immunobiology, 2011, 216, 1228-1237.	0.8	40
57	Reciprocal regulation of lymphoid tissue development in the large intestine by IL-25 and IL-23. Mucosal Immunology, 2015, 8, 582-595.	2.7	40
58	Recruitment of inflammatory monocytes by senescent fibroblasts inhibits antigen-specific tissue immunity during human aging. Nature Aging, 2021, 1, 101-113.	5.3	39
59	African trypanosome infections in mice that lack the interferonâ€Î³ receptor gene: nitric oxideâ€dependent and â€independent suppression of Tâ€cell proliferative responses and the development of anaemia. Immunology, 1998, 94, 476-480.	2.0	38
60	Increased Abundance of M Cells in the Gut Epithelium Dramatically Enhances Oral Prion Disease Susceptibility. PLoS Pathogens, 2016, 12, e1006075.	2.1	38
61	Scrapie transmission following exposure through the skin is dependent on follicular dendritic cells in lymphoid tissues. Journal of Dermatological Science, 2004, 35, 101-111.	1.0	36
62	The Gut-Associated Lymphoid Tissues in the Small Intestine, Not the Large Intestine, Play a Major Role in Oral Prion Disease Pathogenesis. Journal of Virology, 2015, 89, 9532-9547.	1.5	35
63	Follicular dendritic cell dedifferentiation reduces scrapie susceptibility following inoculation via the skin. Immunology, 2005, 114, 225-234.	2.0	34
64	Skin-derived dendritic cells acquire and degrade the scrapie agent following in vitro exposure. Immunology, 2005, 116, 122-133.	2.0	32
65	Pre/pro-B cells generate macrophage populations during homeostasis and inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3954-E3963.	3.3	32
66	A breakdown in communication? Understanding the effects of aging on the human small intestine epithelium. Clinical Science, 2015, 129, 529-531.	1.8	30
67	Oral Prion Disease Pathogenesis Is Impeded in the Specific Absence of CXCR5-Expressing Dendritic Cells. Journal of Virology, 2017, 91, .	1.5	30
68	The Effects of Host Age on the Transport of Complement-Bound Complexes to the Spleen and the Pathogenesis of Intravenous Scrapie Infection. Journal of Virology, 2012, 86, 25-35.	1.5	29
69	Neuroinvasion by Scrapie following Inoculation via the Skin Is Independent of Migratory Langerhans Cells. Journal of Virology, 2005, 79, 1888-1897.	1.5	28
70	CSF-1 receptor-mediated differentiation of a new type of monocytic cell with B cell-stimulating activity: its selective dependence on IL-34. Journal of Leukocyte Biology, 2013, 95, 19-31.	1.5	28
71	How do PrPSc Prions Spread between Host Species, and within Hosts?. Pathogens, 2017, 6, 60.	1.2	28
72	Isolated lymphoid follicle maturation induces the development of follicular dendritic cells. Immunology, 2007, 120, 336-344.	2.0	27

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73	Complement component C5 is not involved in scrapie pathogenesis. Immunobiology, 2004, 209, 545-549.	0.8	26
74	Assessing the involvement of migratory dendritic cells in the transfer of the scrapie agent from the immune to peripheral nervous systems. Journal of Neuroimmunology, 2007, 187, 114-125.	1.1	26
75	B Cell-Specific S1PR1 Deficiency Blocks Prion Dissemination between Secondary Lymphoid Organs. Journal of Immunology, 2012, 188, 5032-5040.	0.4	26
76	Prospects for safe and effective vaccines against prion diseases. Expert Review of Vaccines, 2015, 14, 1-4.	2.0	25
77	Follicular dendritic cells as targets for intervention in transmissible spongiform encephalopathies. Seminars in Immunology, 2002, 14, 285-293.	2.7	24
78	Evidence of subclinical prion disease in aged mice following exposure to bovine spongiform encephalopathy. Journal of General Virology, 2014, 95, 231-243.	1.3	24
79	Microbial Stimulation Reverses the Age-Related Decline in M Cells in Aged Mice. IScience, 2020, 23, 101147.	1.9	24
80	To the Skin and Beyond: The Immune Response to African Trypanosomes as They Enter and Exit the Vertebrate Host. Frontiers in Immunology, 2020, 11, 1250.	2.2	24
81	Derivation of marker gene signatures from human skin and their use in the interpretation of the transcriptional changes associated with dermatological disorders. Journal of Pathology, 2017, 241, 600-613.	2.1	22
82	Continued Bcl6 Expression Prevents the Transdifferentiation of Established Tfh Cells into Th1 Cells during Acute Viral Infection. Cell Reports, 2020, 33, 108232.	2.9	22
83	Discrimination of Prion Strain Targeting in the Central Nervous System via Reactive Astrocyte Heterogeneity in CD44 Expression. Frontiers in Cellular Neuroscience, 2019, 13, 411.	1.8	21
84	The complement system in prion diseases. Current Opinion in Immunology, 2004, 16, 587-593.	2.4	20
85	Role of the draining lymph node in scrapie agent transmission from the skin. Immunology Letters, 2007, 109, 64-71.	1.1	19
86	Scrapie Affects the Maturation Cycle and Immune Complex Trapping by Follicular Dendritic Cells in Mice. PLoS ONE, 2009, 4, e8186.	1.1	19
87	Vitamin D3 replacement enhances antigen-specific immunity in older adults. Immunotherapy Advances, 2021, 1, .	1.2	18
88	Identification of Novel Genes Selectively Expressed in the Follicle-Associated Epithelium from the Meta-Analysis of Transcriptomics Data from Multiple Mouse Cell and Tissue Populations. DNA Research, 2012, 19, 407-422.	1.5	17
89	Ablation of the cellular prion protein, <scp>PrP^C</scp>, specifically on follicular dendritic cells has no effect on their maturation or function. Immunology, 2013, 138, 246-257.	2.0	17
90	Prions and the blood and immune systems. Haematologica, 2005, 90, 542-8.	1.7	16

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91	Prion pathogenesis and secondary lymphoid organs (SLO). Prion, 2012, 6, 322-333.	0.9	15
92	Antigen Sampling CSF1R-Expressing Epithelial Cells Are the Functional Equivalents of Mammalian M Cells in the Avian Follicle-Associated Epithelium. Frontiers in Immunology, 2019, 10, 2495.	2.2	15
93	Prion disease: bridging the spleen-nerve gap. Nature Medicine, 2003, 9, 1463-1464.	15.2	14
94	Peripheral prion disease pathogenesis is unaltered in the absence of sialoadhesin (Siglecâ€•1/<scp>CD</scp>169). Immunology, 2014, 143, 120-129.	2.0	14
95	The influence of the commensal and pathogenic gut microbiota on prion disease pathogenesis. Journal of General Virology, 2016, 97, 1725-1738.	1.3	14
96	Determining the role of mononuclear phagocytes in prion neuroinvasion from the skin. Journal of Leukocyte Biology, 2012, 91, 817-828.	1.5	13
97	The Priority position paper: Protecting Europe's food chain from prions. Prion, 2016, 10, 165-181.	0.9	13
98	The role of the immune system in prion infection. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 153, 85-107.	1.0	13
99	Prion disease pathogenesis in the absence of the commensal microbiota. Journal of General Virology, 2017, 98, 1943-1952.	1.3	13
100	MicroRNAâ€•100â€•5p indirectly modulates the expression of <i>Il6</i>,<i> Ptgs1/2</i> and <i>Tlr4</i><scp>mRNA</scp> in the mouse follicular dendritic cellâ€•like cell line, FLâ€•Y. Immunology, 2015, 144, 34-44.	2.0	12
101	The Effects of Immune System Modulation on Prion Disease Susceptibility and Pathogenesis. International Journal of Molecular Sciences, 2020, 21, 7299.	1.8	12
102	Accelerated onset of CNS prion disease in mice co-infected with a gastrointestinal helminth pathogen during the preclinical phase. Scientific Reports, 2020, 10, 4554.	1.6	12
103	Human prion diseases and the risk of their transmission during anatomical dissection. Clinical Anatomy, 2014, 27, 821-832.	1.5	11
104	Impact of Zostavax Vaccination on T-Cell Accumulation and Cutaneous Gene Expression in the Skin of Older Humans After Varicella Zoster Virus Antigenâ€“Specific Challenge. Journal of Infectious Diseases, 2018, 218, S88-S98.	1.9	10
105	Development of Bovine Gastric Organoids as a Novel In Vitro Model to Study Host-Parasite Interactions in Gastrointestinal Nematode Infections. Frontiers in Cellular and Infection Microbiology, 0, 12, .	1.8	10
106	The Development of 3D Bovine Intestinal Organoid Derived Models to Investigate Mycobacterium Avium ssp Paratuberculosis Pathogenesis. Frontiers in Veterinary Science, 0, 9, .	0.9	10
107	Immunology of Prion Protein and Prions. Progress in Molecular Biology and Translational Science, 2017, 150, 203-240.	0.9	9
108	The diverse roles of mononuclear phagocytes in prion disease pathogenesis. Prion, 2012, 6, 124-133.	0.9	8

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109	c-Rel is dispensable for the differentiation and functional maturation of M cells in the follicle-associated epithelium. Immunobiology, 2017, 222, 316-326.	0.8	8
110	Effect of co-infection with a small intestine-restricted helminth pathogen on oral prion disease pathogenesis in mice. Scientific Reports, 2019, 9, 6674.	1.6	8
111	Influence of the Draining Lymph Nodes and Organized Lymphoid Tissue Microarchitecture on Susceptibility to Intradermal Trypanosoma brucei Infection. Frontiers in Immunology, 2020, 11, 1118.	2.2	8
112	Aging-Related Impairments to M Cells in Peyerâ€™s Patches Coincide With Disturbances to Paneth Cells. Frontiers in Immunology, 2021, 12, 761949.	2.2	8
113	The transmissible spongiform encephalopathies: pathogenic mechanisms and strategies for therapeutic intervention. Expert Opinion on Therapeutic Targets, 2001, 5, 569-585.	1.5	7
114	Oral Prion Neuroinvasion Occurs Independently of PrP ^C Expression in the Gut Epithelium. Journal of Virology, 2018, 92, .	1.5	7
115	Effects of hostâ€derived chemokines on the motility and viability of <i>Trypanosoma brucei</i>. Parasite Immunology, 2019, 41, e12609.	0.7	7
116	Prion pathogenesis is unaltered following down-regulation of SIGN-R1. Virology, 2016, 497, 337-345.	1.1	5
117	Increased susceptibility to oral <i>Trichuris muris</i> infection in the specific absence of <scp>CXCR</scp>5⁺<scp>CD</scp>11c⁺ cells. Parasite Immunology, 2018, 40, e12566.	0.7	4
118	The clinical correlates of vaccine-induced immune thrombotic thrombocytopenia after immunisation with adenovirus vector-based SARS-CoV-2 vaccines. Immunotherapy Advances, 2021, 1, ltab019.	1.2	4
119	Complete Microglia Deficiency Accelerates Prion Disease Without Enhancing CNS Prion Accumulation. SSRN Electronic Journal, 0, , .	0.4	3
120	Foot-and-mouth disease virus localisation on follicular dendritic cells and sustained induction of neutralising antibodies is dependent on binding to complement receptors (CR2/CR1). PLoS Pathogens, 2022, 18, e1009942.	2.1	3
121	Innate Immune Tolerance in Microglia Does Not Impact on Central Nervous System Prion Disease. Frontiers in Cellular Neuroscience, 0, 16, .	1.8	2
122	Dermal bacterial LPS-stimulation reduces susceptibility to intradermal Trypanosoma brucei infection. Scientific Reports, 2021, 11, 9856.	1.6	1
123	From Scientific Curiosity to Public Enemy Number One in Six Short Months. PLoS Pathogens, 2016, 12, e1005371.	2.1	0
124	Editorial: Immunological Consequences of Antigen Sampling at Mucosal Surfaces. Frontiers in Immunology, 2019, 10, 2773.	2.2	0
125	Unaltered intravenous prion disease pathogenesis in the temporary absence of marginal zone B cells. Scientific Reports, 2019, 9, 19119.	1.6	0
126	Immunology of Prion Disease. , 2016, , 184-199.		0

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127	Identifying the role of complement receptor 2 (CR2) on follicular dendritic cells (FDCs) in the persistence of foot and mouth disease virus (FMDV). Access Microbiology, 2019, 1, .	0.2	0
128	Microbial Stimulation Reverses the Age-Related Decline in M Cells in Aged Mice. SSRN Electronic Journal, 0, , .	0.4	0
129	Temporal Profiling of the Cortical Synaptic Mitochondrial Proteome Identifies Ageing Associated Regulators of Stability. Cells, 2021, 10, 3403.	1.8	0