Gregory M Barton

List of Publications by Citations

57 papers	10,897 citations	34 h-index	67 g-index
67 ext. papers	12,310 ext. citations	20.7 avg, IF	6.56 L-index

#	Paper	IF	Citations
57	Toll-like receptors control activation of adaptive immune responses. *Nature Immunology*, **2001**, 2, 947-50	19.1	1164
56	Toll-like receptor signaling pathways. *Science*, **2003**, 300, 1524-5	33.3	1032
55	TIRAP: an adapter molecule in the Toll signaling pathway. *Nature Immunology*, **2001**, 2, 835-41	19.1	809
54	A mechanism for the initiation of allergen-induced T helper type 2 responses. *Nature Immunology*, **2008**, 9, 310-8	19.1	719
53	The adaptor molecule TIRAP provides signalling specificity for Toll-like receptors. *Nature*, **2002**, 420, 329-33	50.4	684
52	CD14 controls the LPS-induced endocytosis of Toll-like receptor 4. *Cell*, **2011**, 147, 868-80	56.2	598
51	Intracellular localization of Toll-like receptor 9 prevents recognition of self DNA but facilitates access to viral DNA. *Nature Immunology*, **2006**, 7, 49-56	19.1	537
50	A cell biological view of Toll-like receptor function: regulation through compartmentalization. *Nature Reviews Immunology*, **2009**, 9, 535-42	36.5	524
49	The ectodomain of Toll-like receptor 9 is cleaved to generate a functional receptor. *Nature*, **2008**, 456, 658-62	50.4	461
48	Nucleic acid recognition by the innate immune system. *Annual Review of Immunology*, **2011**, 29, 185-214	34.7	423
47	Toll-like receptor 2 on inflammatory monocytes induces type I interferon in response to viral but not bacterial ligands. *Nature Immunology*, **2009**, 10, 1200-7	19.1	319
46	A calculated response: control of inflammation by the innate immune system. *Journal of Clinical Investigation*, **2008**, 118, 413-20	15.9	300
45	Control of adaptive immune responses by Toll-like receptors. *Current Opinion in Immunology*, **2002**, 14, 380-3	7.8	287
44	MyD88: a central player in innate immune signaling. *F1000prime Reports*, **2014**, 6, 97		273
43	Retroviral delivery of small interfering RNA into primary cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 14943-5	11.5	247
42	Nucleic acid recognition by Toll-like receptors is coupled to stepwise processing by cathepsins and asparagine endopeptidase. *Journal of Experimental Medicine*, **2011**, 208, 643-51	16.6	225
41	UNC93B1 mediates differential trafficking of endosomal TLRs. *ELife*, **2013**, 2, e00291	8.9	173

40	TLR signaling is required for Salmonella typhimurium virulence. *Cell*, **2011**, 144, 675-88	56.2	171
39	induces intestinal adaptive immune responses during homeostasis. *Science*, **2019**, 364, 1179-1184	33.3	162
38	Viral recognition by Toll-like receptors. *Seminars in Immunology*, **2007**, 19, 33-40	10.7	158
37	Maternal IgG and IgA Antibodies Dampen Mucosal T Helper Cell Responses in Early Life. *Cell*, **2016**, 165, 827-41	56.2	157
36	A Map of Toll-like Receptor Expression in the Intestinal Epithelium Reveals Distinct Spatial, Cell Type-Specific, and Temporal Patterns. *Immunity*, **2018**, 49, 560-575.e6	32.3	153
35	Trafficking of endosomal Toll-like receptors. *Trends in Cell Biology*, **2014**, 24, 360-9	18.3	122
34	Tissue-Resident Macrophages Are Locally Programmed for Silent Clearance of Apoptotic Cells. *Immunity*, **2017**, 47, 913-927.e6	32.3	113
33	Toll-like receptors: key players in antiviral immunity. *Current Opinion in Virology*, **2011**, 1, 447-54	7.5	105
32	Requirement for diverse, low-abundance peptides in positive selection of T cells. *Science*, **1999**, 283, 67-70	33.3	101
31	Dynamic tuning of T cell reactivity by self-peptide-major histocompatibility complex ligands. *Journal of Experimental Medicine*, **2001**, 193, 1179-87	16.6	94
30	Transmembrane mutations in Toll-like receptor 9 bypass the requirement for ectodomain proteolysis and induce fatal inflammation. *Immunity*, **2011**, 35, 721-32	32.3	84
29	Nucleic acid-sensing TLRs: trafficking and regulation. *Current Opinion in Immunology*, **2017**, 44, 26-33	7.8	76
28	Differences in codon bias and GC content contribute to the balanced expression of TLR7 and TLR9. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1362-71	11.5	69
27	Nucleic acid sensing Toll-like receptors in autoimmunity. *Current Opinion in Immunology*, **2011**, 23, 3-9	7.8	54
26	UNC93B1 recruits syntenin-1 to dampen TLR7 signalling and prevent autoimmunity. *Nature*, **2019**, 575, 366-370	50.4	42
25	Cofactors required for TLR7- and TLR9-dependent innate immune responses. *Cell Host and Microbe*, **2012**, 11, 306-18	23.4	38
24	Emerging principles governing signal transduction by pattern-recognition receptors. *Cold Spring Harbor Perspectives in Biology*, **2014**, 7, a016253	10.2	34
23	Neutrophils promote CXCR3-dependent itch in the development of atopic dermatitis. *ELife*, **2019**, 8,	8.9	33

22	Internalization and TLR-dependent type I interferon production by monocytes in response to Toxoplasma gondii. *Immunology and Cell Biology*, **2014**, 92, 872-81	5	32
21	Release from UNC93B1 reinforces the compartmentalized activation of select TLRs. *Nature*, **2019**, 575, 371-374	50.4	28
20	B cell receptor and Toll-like receptor signaling coordinate to control distinct B-1 responses to both self and the microbiota. *ELife*, **2019**, 8,	8.9	25
19	Toll-like receptor-deficient mice reveal how innate immune signaling influences Salmonella virulence strategies. *Cell Host and Microbe*, **2014**, 15, 203-13	23.4	24
18	Compartment-specific control of signaling from a DNA-sensing immune receptor. *Science Signaling*, **2010**, 3, pe45	8.8	19
17	Suppression of TLR9 immunostimulatory motifs in the genome of a gammaherpesvirus. *Journal of Immunology*, **2011**, 187, 887-96	5.3	17
16	Regulation of the nucleic acid-sensing Toll-like receptors. *Nature Reviews Immunology*, **2021**,	36.5	17
15	Positive selection of self-MHC-reactive T cells by individual peptide-MHC class II complexes. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 6937-42	11.5	15
14	An altered invariant chain protein with an antigenic peptide in place of CLIP forms SDS-stable complexes with class II alphabeta dimers and facilitates highly efficient peptide loading. *International Immunology*, **1998**, 10, 1159-65	4.9	15
13	The impact of Toll-like receptors on bacterial virulence strategies. *Current Opinion in Microbiology*, **2013**, 16, 17-22	7.9	13
12	Evaluating peptide repertoires within the context of thymocyte development. *Seminars in Immunology*, **1999**, 11, 417-22	10.7	12
11	Cas9 conditionally-immortalized macrophages as a tool for bacterial pathogenesis and beyond. *ELife*, **2019**, 8,	8.9	11
10	Genotypic and Phenotypic Diversity among Human Isolates of Akkermansia muciniphila. *MBio*, **2021** , 12,	7.8	11
9	Local TNFR1 Signaling Licenses Murine Neutrophils for Increased TLR-Dependent Cytokine and Eicosanoid Production. *Journal of Immunology*, **2017**, 198, 2865-2875	5.3	7
8	No antigen-presentation defect in Unc93b1(3d/3d) (3d) mice. *Nature Immunology*, **2013**, 14, 1101-2	19.1	7
7	Dysregulation of TLR9 in neonates leads to fatal inflammatory disease driven by IFN-*Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 3074-3082	11.5	7
6	MicroRNAs and LPS: developing a relationship in the neonatal gut. *Cell Host and Microbe*, **2010**, 8, 303-4	23.4	6
5	TLR5 stops commensals in their tracks. *Cell Host and Microbe*, **2013**, 14, 488-90	23.4	2

List of Publications

4	Unc93b1 recruits Syntenin-1 to dampen TLR7 signaling and prevent autoimmunity		2
3	Toll-Like Receptors and Control of Adaptive Immunity271-285		1
2	An essential checkpoint for TLR9 signaling is release from Unc93b1 in endosomes		1
1	Toll-like receptors form different complexes with UNC93B1. *Nature Structural and Molecular Biology*, **2021**, 28, 121-123	17.6	0