Kensuke Miyake

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125 papers	15,247 citations	55 h-index	123 g-index
135 ext. papers	16,986 ext. citations	10.5 avg, IF	6.3 L-index

#	Paper	IF	Citations
125	Anti-TLR7 Antibody Protects Against Lupus Nephritis in NZBWF1 Mice by Targeting B Cells and Patrolling Monocytes. *Frontiers in Immunology*, **2021**, 12, 777197	8.4	2
124	Cleavage of DNA and RNA by PLD3 and PLD4 limits autoinflammatory triggering by multiple sensors. *Nature Communications*, **2021**, 12, 5874	17.4	2
123	Skewed endosomal RNA responses from TLR7 to TLR3 in RNase T2-deficient macrophages. *International Immunology*, **2021**, 33, 479-490	4.9	1
122	Dynamic control of nucleic-acid-sensing Toll-like receptors by the endosomal compartment. *International Immunology*, **2021**, 33, 835-840	4.9	0
121	Phospholipase A2 from bee venom increases poly(I:C)-induced activation in human keratinocytes. *International Immunology*, **2020**, 32, 371-383	4.9	6
120	N6-methylated adenine on the target sites of mamA from Mycobacterium bovis BCG enhances macrophage activation by CpG DNA in mice. *Tuberculosis*, **2020**, 121, 101890	2.6	3
119	TRPM5 Negatively Regulates Calcium-Dependent Responses in Lipopolysaccharide-Stimulated B Lymphocytes. *Cell Reports*, **2020**, 31, 107755	10.6	3
118	The impact of cell maturation and tissue microenvironments on the expression of endosomal Toll-like receptors in monocytes and macrophages. *International Immunology*, **2020**, 32, 785-798	4.9	7
117	Cholera toxin B induces interleukin-1β production from resident peritoneal macrophages through the pyrin inflammasome as well as the NLRP3 inflammasome. *International Immunology*, **2019**, 31, 657-668	4.9	7
116	Endolysosomal compartments as platforms for orchestrating innate immune and metabolic sensors. *Journal of Leukocyte Biology*, **2019**, 106, 853-862	6.5	5
115	Reciprocal regulation of STING and TCR signaling by mTORC1 for T-cell activation and function. *Life Science Alliance*, **2019**, 2,	5.8	19
114	ADP-ribosylation factor-like 8b is required for the development of mouse models of systemic lupus erythematosus. *International Immunology*, **2019**, 31, 225-237	4.9	
113	Cytidine deaminase enables Toll-like receptor 8 activation by cytidine or its analogs. *International Immunology*, **2019**, 31, 167-173	4.9	7
112	Toll-like Receptor 9 Contains Two DNA Binding Sites that Function Cooperatively to Promote Receptor Dimerization and Activation. *Immunity*, **2018**, 48, 649-658.e4	32.3	56
111	Mechanisms controlling nucleic acid-sensing Toll-like receptors. *International Immunology*, **2018**, 30, 43-51	4.9	53
110	Biallelic Variants in CNPY3, Encoding an Endoplasmic Reticulum Chaperone, Cause Early-Onset Epileptic Encephalopathy. *American Journal of Human Genetics*, **2018**, 102, 321-329	11	10
109	Herpes Simplex Virus 1 VP22 Inhibits AIM2-Dependent Inflammasome Activation to Enable Efficient Viral Replication. *Cell Host and Microbe*, **2018**, 23, 254-265.e7	23.4	72

108	Cleavage of Toll-Like Receptor 9 Ectodomain Is Required for Responses to Single Strand DNA. *Frontiers in Immunology*, **2018**, 9, 1491	8.4	9
107	New application of anti-TLR monoclonal antibodies: detection, inhibition and protection. *Inflammation and Regeneration*, **2018**, 38, 11	10.9	5
106	Epithelial membrane protein 3 (Emp3) downregulates induction and function of cytotoxic T lymphocytes by macrophages via TNF- production. *Cellular Immunology*, **2018**, 324, 33-41	4.4	5
105	Structural Analyses of Toll-like Receptor 7 Reveal Detailed RNA Sequence Specificity and Recognition Mechanism of Agonistic Ligands. *Cell Reports*, **2018**, 25, 3371-3381.e5	10.6	55
104	Combating herpesvirus encephalitis by potentiating a TLR3-mTORC2 axis. *Nature Immunology*, **2018** , 19, 1071-1082	19.1	38
103	The Chaperone UNC93B1 Regulates Toll-like Receptor Stability Independently of Endosomal TLR Transport. *Immunity*, **2018**, 48, 911-922.e7	32.3	56
102	Structural basis for species-specific activation of mouse Toll-like receptor 9. *FEBS Letters*, **2018**, 592, 2636-2646	3.8	7
101	Emerging roles of the processing of nucleic acids and Toll-like receptors in innate immune responses to nucleic acids. *Journal of Leukocyte Biology*, **2017**, 101, 135-142	6.5	22
100	Selectivity of Human TLR9 for Double CpG Motifs and Implications for the Recognition of Genomic DNA. *Journal of Immunology*, **2017**, 198, 2093-2104	5.3	27
99	Interleukin-33 produced by M2 macrophages and other immune cells contributes to Th2 immune reaction of IgG4-related disease. *Scientific Reports*, **2017**, 7, 42413	4.9	60
98	The protective effect of the anti-Toll-like receptor 9 antibody against acute cytokine storm caused by immunostimulatory DNA. *Scientific Reports*, **2017**, 7, 44042	4.9	15
97	C4b-binding protein negatively regulates TLR4/MD-2 response but not TLR3 response. *FEBS Letters* , **2017**, 591, 1732-1741	3.8	4
96	Arl8b is required for lysosomal degradation of maternal proteins in the visceral yolk sac endoderm of mouse embryos. *Journal of Cell Science*, **2017**, 130, 3568-3577	5.3	12
95	Core fucose is critical for CD14-dependent Toll-like receptor 4 signaling. *Glycobiology*, **2017**, 27, 1006-1015	3.8	20
94	Requirement of glycosylation machinery in TLR responses revealed by CRISPR/Cas9 screening. *International Immunology*, **2017**, 29, 347-355	4.9	4
93	TLR7 mediated viral recognition results in focal type I interferon secretion by dendritic cells. *Nature Communications*, **2017**, 8, 1592	17.4	45
92	C4b binding protein negatively regulates TLR1/2 response. *Innate Immunity*, **2017**, 23, 11-19	2.7	4
91	Homeostatic Inflammation as Environmental-Adaptation Strategy **2016**, 25-52		

90	Crystal structure of NOD2 and its implications in human disease. *Nature Communications*, **2016**, 7, 11181	17.4	90
89	Isoliquiritigenin Attenuates Adipose Tissue Inflammation in vitro and Adipose Tissue Fibrosis through Inhibition of Innate Immune Responses in Mice. *Scientific Reports*, **2016**, 6, 23097	4.9	56
88	Autoinhibition and relief mechanism by the proteolytic processing of Toll-like receptor 8. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 3012-7	11.5	36
87	Type I IFN Contributes to the Phenotype of Unc93b1D34A/D34A Mice by Regulating TLR7 Expression in B Cells and Dendritic Cells. *Journal of Immunology*, **2016**, 196, 416-27	5.3	5
86	Guanosine and its modified derivatives are endogenous ligands for TLR7. *International Immunology*, **2016**, 28, 211-22	4.9	60
85	Nucleic acid-sensing TLRs and autoimmunity: novel insights from structural and cell biology. *Immunological Reviews*, **2016**, 269, 60-75	11.3	68
84	Inflammatory responses increase secretion of MD-1 protein. *International Immunology*, **2016**, 28, 503-512	4.9	4
83	Marginal zone B cells exacerbate endotoxic shock via interleukin-6 secretion induced by FcγR-coupled TLR4 signalling. *Nature Communications*, **2016**, 7, 11498	17.4	27
82	Structural Analysis Reveals that Toll-like Receptor 7 Is a Dual Receptor for Guanosine and Single-Stranded RNA. *Immunity*, **2016**, 45, 737-748	32.3	209
81	Toll-like receptor 8 senses degradation products of single-stranded RNA. *Nature Structural and Molecular Biology*, **2015**, 22, 109-15	17.6	210
80	DNase II-dependent DNA digestion is required for DNA sensing by TLR9. *Nature Communications*, **2015**, 6, 5853	17.4	78
79	Cell-intrinsic expression of TLR9 in autoreactive B cells constrains BCR/TLR7-dependent responses. *Journal of Immunology*, **2015**, 194, 2504-12	5.3	39
78	Species-Specific Minimal Sequence Motif for Oligodeoxyribonucleotides Activating Mouse TLR9. *Journal of Immunology*, **2015**, 195, 4396-405	5.3	36
77	Endoplasmic Protein Nogo-B (RTN4-B) Interacts with GRAMD4 and Regulates TLR9-Mediated Innate Immune Responses. *Journal of Immunology*, **2015**, 194, 5426-36	5.3	10
76	Structural basis of CpG and inhibitory DNA recognition by Toll-like receptor 9. *Nature*, **2015**, 520, 702-5	50.4	216
75	Targeting cell surface TLR7 for therapeutic intervention in autoimmune diseases. *Nature Communications*, **2015**, 6, 6119	17.4	51
74	Mucolipin 1 positively regulates TLR7 responses in dendritic cells by facilitating RNA transportation to lysosomes. *International Immunology*, **2015**, 27, 83-94	4.9	16
73	The enzyme Cyp26b1 mediates inhibition of mast cell activation by fibroblasts to maintain skin-barrier homeostasis. *Immunity*, **2014**, 40, 530-41	32.3	54

72	Lipopeptides are signaled by Toll-like receptor 1, 2 and 6 in endolysosomes. *International Immunology*, **2014**, 26, 563-73	4.9	19
71	The attenuated inflammation of MPL is due to the lack of CD14-dependent tight dimerization of the TLR4/MD2 complex at the plasma membrane. *International Immunology*, **2014**, 26, 307-14	4.9	39
70	Homeostatic inflammation in innate immunity. *Current Opinion in Immunology*, **2014**, 30, 85-90	7.8	25
69	UNC93B1 is essential for the plasma membrane localization and signaling of Toll-like receptor 5. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7072-7	11.5	43
68	Roles of the cleaved N-terminal TLR3 fragment and cell surface TLR3 in double-stranded RNA sensing. *Journal of Immunology*, **2014**, 193, 5208-17	5.3	41
67	Toll-Like Receptors **2014**, 1-6		1
66	An essential role for the N-terminal fragment of Toll-like receptor 9 in DNA sensing. *Nature Communications*, **2013**, 4, 1949	17.4	69
65	Endocytosis-free DNA sensing by cell surface TLR9 in neutrophils: rapid defense with autoimmune risks. *European Journal of Immunology*, **2013**, 43, 2006-9	6.1	14
64	Structural reorganization of the Toll-like receptor 8 dimer induced by agonistic ligands. *Science*, **2013**, 339, 1426-9	33.3	225
63	Noncanonical inflammasome activation by intracellular LPS independent of TLR4. *Science*, **2013**, 341, 1246-9	33.3	935
62	TLR4-MD-2 complex is negatively regulated by an endogenous ligand, globotetraosylceramide. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4714-9	11.5	54
61	Double-stranded RNA of intestinal commensal but not pathogenic bacteria triggers production of protective interferon-□*Immunity*, **2013**, 38, 1187-97	32.3	133
60	Essential role for Toll-like receptor 7 (TLR7)-unique cysteines in an intramolecular disulfide bond, proteolytic cleavage and RNA sensing. *International Immunology*, **2013**, 25, 413-22	4.9	34
59	Human TLR4 polymorphism D299G/T399I alters TLR4/MD-2 conformation and response to a weak ligand monophosphoryl lipid A. *International Immunology*, **2013**, 25, 45-52	4.9	26
58	Controlling systems of nucleic acid sensing-TLRs restrict homeostatic inflammation. *Experimental Cell Research*, **2012**, 318, 1461-6	4.2	11
57	Peroxiredoxin family proteins are key initiators of post-ischemic inflammation in the brain. *Nature Medicine*, **2012**, 18, 911-7	50.5	298
56	PRAT4A-dependent expression of cell surface TLR5 on neutrophils, classical monocytes and dendritic cells. *International Immunology*, **2012**, 24, 613-23	4.9	29
55	Unc93B1 restricts systemic lethal inflammation by orchestrating Toll-like receptor 7 and 9 trafficking. *Immunity*, **2011**, 35, 69-81	32.3	142

54	Intracellular TLR4/MD-2 in macrophages senses Gram-negative bacteria and induces a unique set of LPS-dependent genes. *International Immunology*, **2011**, 23, 503-10	4.9	34
53	High-density lipoprotein suppresses the type I interferon response, a family of potent antiviral immunoregulators, in macrophages challenged with lipopolysaccharide. *Circulation*, **2010**, 122, 1919-27	16.7	96
52	Potentiation of TLR9 responses for human naïve B-cell growth through RP105 signaling. *Clinical Immunology*, **2010**, 135, 125-36	9	17
51	Unc93B1 biases Toll-like receptor responses to nucleic acid in dendritic cells toward DNA- but against RNA-sensing. *Journal of Experimental Medicine*, **2009**, 206, 1339-50	16.6	263
50	Regulatory molecules required for nucleotide-sensing Toll-like receptors. *Immunological Reviews*, **2009**, 227, 32-43	11.3	71
49	Toll-like receptor 7 cooperates with IL-4 in activated B cells through antigen receptor or CD38 and induces class switch recombination and IgG1 production. *Molecular Immunology*, **2009**, 46, 1278-88	4.3	27
48	Cathepsins are required for Toll-like receptor 9 responses. *Biochemical and Biophysical Research Communications*, **2008**, 367, 693-9	3.4	120
47	Roles for LPS-dependent interaction and relocation of TLR4 and TRAM in TRIF-signaling. *Biochemical and Biophysical Research Communications*, **2008**, 368, 94-9	3.4	173
46	Tonic B cell activation by Radioprotective105/MD-1 promotes disease progression in MRL/lpr mice. *International Immunology*, **2008**, 20, 881-91	4.9	12
45	Visualization of the molecular dynamics of lipopolysaccharide on the plasma membrane of murine macrophages by total internal reflection fluorescence microscopy. *Journal of Biological Chemistry*, **2008**, 283, 22962-71	5.4	5
44	A single base mutation in the PRAT4A gene reveals differential interaction of PRAT4A with Toll-like receptors. *International Immunology*, **2008**, 20, 1407-15	4.9	25
43	TLR accessory molecules. *Current Opinion in Immunology*, **2008**, 20, 420-5	7.8	153
42	Mast cell-mediated immune responses through IgE antibody and Toll-like receptor 4 by malarial peroxiredoxin. *European Journal of Immunology*, **2008**, 38, 1341-50	6.1	45
41	Nucleic acid-sensing Toll-like receptors: beyond ligand search. *Advanced Drug Delivery Reviews*, **2008**, 60, 782-5	18.5	6
40	Role of the Toll-like receptor 4/NF-kappaB pathway in saturated fatty acid-induced inflammatory changes in the interaction between adipocytes and macrophages. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 84-91	9.4	619
39	A protein associated with Toll-like receptor (TLR) 4 (PRAT4A) is required for TLR-dependent immune responses. *Journal of Experimental Medicine*, **2007**, 204, 2963-76	16.6	131
38	Innate immune sensing of pathogens and danger signals by cell surface Toll-like receptors. *Seminars in Immunology*, **2007**, 19, 3-10	10.7	402
37	Crystal structures of human MD-2 and its complex with antiendotoxic lipid IVa. *Science*, **2007**, 316, 1632-4	33.3	385

36	Inhibition of homodimerization of Toll-like receptor 4 by curcumin. *Biochemical Pharmacology*, **2006**, 72, 62-9	6	179
35	Roles for accessory molecules in microbial recognition by Toll-like receptors. *Journal of Endotoxin Research*, **2006**, 12, 195-204		115
34	Regulatory roles for MD-2 and TLR4 in ligand-induced receptor clustering. *Journal of Immunology*, **2006**, 176, 6211-8	5.3	138
33	A protein associated with toll-like receptor 4 (PRAT4A) regulates cell surface expression of TLR4. *Journal of Immunology*, **2006**, 177, 1772-9	5.3	87
32	Agonistic antibody to TLR4/MD-2 protects mice from acute lethal hepatitis induced by TNF-alpha. *Journal of Immunology*, **2006**, 176, 4244-51	5.3	26
31	A molecule that is associated with Toll-like receptor 4 and regulates its cell surface expression. *Biochemical and Biophysical Research Communications*, **2006**, 339, 1076-82	3.4	27
30	Virulence factors of Yersinia pestis are overcome by a strong lipopolysaccharide response. *Nature Immunology*, **2006**, 7, 1066-73	19.1	315
29	Involvement of CD14 in the inhibitory effects of dimethyl-alpha-cyclodextrin on lipopolysaccharide signaling in macrophages. *FEBS Letters*, **2005**, 579, 1707-14	3.8	22
28	Association of SIGNR1 with TLR4-MD-2 enhances signal transduction by recognition of LPS in gram-negative bacteria. *International Immunology*, **2005**, 17, 827-36	4.9	74
27	The radioprotective 105/MD-1 complex links TLR2 and TLR4/MD-2 in antibody response to microbial membranes. *Journal of Immunology*, **2005**, 174, 7043-9	5.3	81
26	Endotoxin recognition molecules MD-2 and toll-like receptor 4 as potential targets for therapeutic intervention of endotoxin shock. *Inflammation and Allergy: Drug Targets*, **2004**, 3, 291-7		27
25	Interaction of soluble form of recombinant extracellular TLR4 domain with MD-2 enables lipopolysaccharide binding and attenuates TLR4-mediated signaling. *Journal of Immunology*, **2004**, 173, 6949-54	5.3	93
24	Lipid A antagonist, lipid IVa, is distinct from lipid A in interaction with Toll-like receptor 4 (TLR4)-MD-2 and ligand-induced TLR4 oligomerization. *International Immunology*, **2004**, 16, 961-9	4.9	181
23	MD-2 is required for the full responsiveness of mast cells to LPS but not to PGN. *Biochemical and Biophysical Research Communications*, **2004**, 323, 491-8	3.4	13
22	Innate recognition of lipopolysaccharide by Toll-like receptor 4-MD-2. *Trends in Microbiology*, **2004**, 12, 186-92	12.4	253
21	Endotoxin recognition molecules, Toll-like receptor 4-MD-2. *Seminars in Immunology*, **2004**, 16, 11-6	10.7	72
20	CD19 regulates innate immunity by the toll-like receptor RP105 signaling in B lymphocytes. *Blood*, **2003**, 102, 1374-80	2.2	100
19	Lipopolysaccharide interaction with cell surface Toll-like receptor 4-MD-2: higher affinity than that with MD-2 or CD14. *Journal of Experimental Medicine*, **2003**, 198, 1035-42	16.6	313

18	Innate recognition of lipopolysaccharide by CD14 and toll-like receptor 4-MD-2: unique roles for MD-2. *International Immunopharmacology*, **2003**, 3, 119-28	5.8	93
17	Essential role of MD-2 in LPS responsiveness and TLR4 distribution. *Nature Immunology*, **2002**, 3, 667-72	19.1	806
16	Oligosaccharides of Hyaluronan activate dendritic cells via toll-like receptor 4. *Journal of Experimental Medicine*, **2002**, 195, 99-111	16.6	1125
15	Requirement for MD-1 in cell surface expression of RP105/CD180 and B-cell responsiveness to lipopolysaccharide. *Blood*, **2002**, 99, 1699-705	2.2	137
14	Establishment of a monoclonal antibody against human Toll-like receptor 3 that blocks double-stranded RNA-mediated signaling. *Biochemical and Biophysical Research Communications*, **2002**, 293, 1364-9	3.4	369
13	Essential role of MD-2 in B-cell responses to lipopolysaccharide and Toll-like receptor 4 distribution. *Journal of Endotoxin Research*, **2002**, 8, 449-52		7
12	Mediators of innate immune recognition of bacteria concentrate in lipid rafts and facilitate lipopolysaccharide-induced cell activation. *Journal of Cell Science*, **2002**, 115, 2603-2611	5.3	476
11	Mediators of innate immune recognition of bacteria concentrate in lipid rafts and facilitate lipopolysaccharide-induced cell activation. *Journal of Cell Science*, **2002**, 115, 2603-11	5.3	434
10	Molecular genetic analysis of an endotoxin nonresponder mutant cell line: a point mutation in a conserved region of MD-2 abolishes endotoxin-induced signaling. *Journal of Experimental Medicine*, **2001**, 194, 79-88	16.6	232
9	Human MD-2 confers on mouse Toll-like receptor 4 species-specific lipopolysaccharide recognition. *International Immunology*, **2001**, 13, 1595-9	4.9	206
8	Differentiation stages of eosinophils characterized by hyaluronic acid binding via CD44 and responsiveness to stimuli. *DNA and Cell Biology*, **2001**, 20, 189-202	3.6	15
7	The toll-like receptor protein RP105 regulates lipopolysaccharide signaling in B cells. *Journal of Experimental Medicine*, **2000**, 192, 23-9	16.6	255
6	Mouse toll-like receptor 4.MD-2 complex mediates lipopolysaccharide-mimetic signal transduction by Taxol. *Journal of Biological Chemistry*, **2000**, 275, 2251-4	5.4	263
5	B cells lacking RP105, a novel B cell antigen, in systemic lupus erythematosus. *Arthritis and Rheumatism*, **1999**, 42, 2593-600		40
4	MD-2, a molecule that confers lipopolysaccharide responsiveness on Toll-like receptor 4. *Journal of Experimental Medicine*, **1999**, 189, 1777-82	16.6	1685
3	The molecular mechanism of B cell activation by toll-like receptor protein RP-105. *Journal of Experimental Medicine*, **1998**, 188, 93-101	16.6	86
2	B lymphocytes differentially use the Rel and nuclear factor kappaB1 (NF-kappaB1) transcription factors to regulate cell cycle progression and apoptosis in quiescent and mitogen-activated cells. *Journal of Experimental Medicine*, **1998**, 187, 663-74	16.6	215
1	Nucleosides drive histiocytosis in SLC29A3 disorders by activating TLR7		2