Clare E Bryant

List of Publications by Year
in descending order

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82	8,494	87888 38	56724 83
papers	citations	h-index	g-index

91	91	91	18004
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The IUPHAR/BPS Guide to PHARMACOLOGY in 2018: updates and expansion to encompass the new guide to IMMUNOPHARMACOLOGY. Nucleic Acids Research, 2018, 46, D1091-D1106.	14.5	1,584
2	Succinate Dehydrogenase Supports Metabolic Repurposing of Mitochondria to Drive Inflammatory Macrophages. Cell, 2016, 167, 457-470.e13.	28.9	1,396
3	Assembly and localization of Toll-like receptor signalling complexes. Nature Reviews Immunology, 2014, 14, 546-558.	22.7	653
4	The relationship between glial cell mechanosensitivity and foreign body reactions in the central nervous system. Biomaterials, 2014, 35, 3919-3925.	11.4	331
5	Molecular mechanisms involved in inflammasome activation. Trends in Cell Biology, 2009, 19, 455-464.	7.9	310
6	The molecular basis of the host response to lipopolysaccharide. Nature Reviews Microbiology, 2010, 8, 8-14.	28.6	303
7	Inflammasome activation causes dual recruitment of NLRC4 and NLRP3 to the same macromolecular complex. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7403-7408.	7.1	285
8	Salmonella Infection Induces Recruitment of Caspase-8 to the Inflammasome To Modulate IL-1Î² Production. Journal of Immunology, 2013, 191, 5239-5246.	0.8	206
9	Inflammasome Priming in Sterile Inflammatory Disease. Trends in Molecular Medicine, 2017, 23, 165-180.	6.7	193
10	A Dimer of the Toll-Like Receptor 4 Cytoplasmic Domain Provides a Specific Scaffold for the Recruitment of Signalling Adaptor Proteins. PLoS ONE, 2007, 2, e788.	2.5	166
11	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Catalytic receptors. British Journal of Pharmacology, 2019, 176, S247-S296.	5.4	156
12	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Catalytic receptors. British Journal of Pharmacology, 2021, 178, S264-S312.	5.4	148
13	Different soluble aggregates of AÎ²42 can give rise to cellular toxicity through different mechanisms. Nature Communications, 2019, 10, 1541.	12.8	140
14	Anti-commensal IgG Drives Intestinal Inflammation and Type 17 Immunity in Ulcerative Colitis. Immunity, 2019, 50, 1099-1114.e10.	14.3	139
15	Lipopolysaccharide-induced NF-Î¹B nuclear translocation is primarily dependent on MyD88, but TNFÎ± expression requires TRIF and MyD88. Scientific Reports, 2017, 7, 1428.	3.3	114
16	Picomolar concentrations of oligomeric alpha-synuclein sensitizes TLR4 to play an initiating role in Parkinsonâ€™s disease pathogenesis. Acta Neuropathologica, 2019, 137, 103-120.	7.7	103
17	Flexible Usage and Interconnectivity of Diverse Cell Death Pathways Protect against Intracellular Infection. Immunity, 2020, 53, 533-547.e7.	14.3	98
18	Actin polymerization as a key innate immune effector mechanism to control Salmonella infection. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17588-17593.	7.1	96

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19	Caspase-1 Cleavage of the TLR Adaptor TRIF Inhibits Autophagy and Î²-Interferon Production during Pseudomonas aeruginosa Infection. Cell Host and Microbe, 2014, 15, 214-227.	11.0	84
20	Activation of Toll-like receptors nucleates assembly of the MyDDosome signaling hub. ELife, 2018, 7, .	6.0	83
21	Mice, men and the relatives: cross-species studies underpin innate immunity. Open Biology, 2012, 2, 120015.	3.6	74
22	Toll-like receptor signalling through macromolecular protein complexes. Molecular Immunology, 2015, 63, 162-165.	2.2	72
23	A Spaetzle-like role for nerve growth factor Î² in vertebrate immunity to Staphylococcus aureus. Science, 2014, 346, 641-646.	12.6	68
24	Detection of a microbial metabolite by STING regulates inflammasome activation in response to Chlamydia trachomatis infection. PLoS Pathogens, 2017, 13, e1006383.	4.7	65
25	Soluble aggregates present in cerebrospinal fluid change in size and mechanism of toxicity during Alzheimerâ€™s disease progression. Acta Neuropathologica Communications, 2019, 7, 120.	5.2	64
26	A Quantitative Comparison of Single-Dye Tracking Analysis Tools Using Monte Carlo Simulations. PLoS ONE, 2013, 8, e64287.	2.5	61
27	Nanobodies raised against monomeric Ê‘-synuclein inhibit fibril formation and destabilize toxic oligomeric species. BMC Biology, 2017, 15, 57.	3.8	61
28	Tollâ€‘like receptor 4 signalling through MyD88 is essential to control Salmonella enterica serovar Typhimurium infection, but not for the initiation of bacterial clearance. Immunology, 2009, 128, 472-483.	4.4	56
29	Evaluation of the ability of carprofen and flunixin meglumine to inhibit activation of nuclear factor kappa B. American Journal of Veterinary Research, 2003, 64, 211-215.	0.6	55
30	Caspaseâ€8 functions as a key mediator of inflammation and proâ€IL‐1Î² processing via both canonical and nonâ€canonical pathways. Immunological Reviews, 2015, 265, 181-193.	6.0	55
31	Beta amyloid aggregates induce sensitised TLR4 signalling causing long-term potentiation deficit and ratÂneuronal cell death. Communications Biology, 2020, 3, 79.	4.4	55
32	Salmonella Flagellin Activates NAIP/NLRC4 and Canonical NLRP3 Inflammasomes in Human Macrophages. Journal of Immunology, 2021, 206, 631-640.	0.8	54
33	The COP II adaptor protein TMED7 is required to initiate and mediate the delivery of TLR4 to the plasma membrane. Science Signaling, 2014, 7, ra70.	3.6	53
34	The Structural Basis for Endotoxin-induced Allosteric Regulation of the Toll-like Receptor 4 (TLR4) Innate Immune Receptor. Journal of Biological Chemistry, 2013, 288, 36215-36225.	3.4	51
35	Arachidonic acid mediates the formation of abundant alpha-helical multimers of alpha-synuclein. Scientific Reports, 2016, 6, 33928.	3.3	49
36	MyD88 Death-Domain Oligomerization Determines Myddosome Architecture: Implications for Toll-like Receptor Signaling. Structure, 2020, 28, 281-289.e3.	3.3	45

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37	International Union of Basic and Clinical Pharmacology. XCVI. Pattern Recognition Receptors in Health and Disease. Pharmacological Reviews, 2015, 67, 462-504.	16.0	41
38	A Comprehensive UHPLC Ion Mobility Quadrupole Time-of-Flight Method for Profiling and Quantification of Eicosanoids, Other Oxylipins, and Fatty Acids. Analytical Chemistry, 2019, 91, 8025-8035.	6.5	40
39	Colitis susceptibility in p47 phoxâ¯/â¯ mice is mediated by the microbiome. Microbiome, 2016, 4, 13.	11.1	34
40	IL-27 Induced by SelectCandidaspp. via TLR7/NOD2 Signaling and IFN-Î² Production Inhibits Fungal Clearance. Journal of Immunology, 2016, 197, 208-221.	0.8	33
41	Tissueâ€resident macrophages actively suppress ILâ€1beta release via a reactive prostanoid/ILâ€10 pathway. EMBO Journal, 2020, 39, e103454.	7.8	33
42	The molecular basis for recognition of bacterial ligands at equine TLR2, TLR1 and TLR6. Veterinary Research, 2013, 44, 50.	3.0	32
43	Saturation of acyl chains converts cardiolipin from an antagonist to an activator of Toll-like receptor-4. Cellular and Molecular Life Sciences, 2019, 76, 3667-3678.	5.4	31
44	Chopping <scp>GSDMD</scp> : caspaseâ€8 has joined the team of pyroptosisâ€mediating caspases. EMBO Journal, 2019, 38, .	7.8	29
45	Critical residues involved in Toll-like receptor 4 activation by cationic lipid nanocarriers are not located at the lipopolysaccharide-binding interface. Cellular and Molecular Life Sciences, 2015, 72, 3971-3982.	5.4	28
46	CARD9 negatively regulates NLRP3-induced IL-1Î² production on Salmonella infection of macrophages. Nature Communications, 2016, 7, 12874.	12.8	28
47	Prevention of the foreign body response to implantable medical devices by inflammasome inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115857119.	7.1	27
48	Nuclear factor kappa B is involved in lipopolysaccharide-stimulated induction of interferon regulatory factor-1 and GAS/GAF DNA-binding in human umbilical vein endothelial cells. British Journal of Pharmacology, 2001, 134, 1629-1638.	5.4	26
49	Compliant Substrates Enhance Macrophage Cytokine Release and NLRP3 Inflammasome Formation During Their Pro-Inflammatory Response. Frontiers in Cell and Developmental Biology, 2021, 9, 639815.	3.7	26
50	Energetics of Endotoxin Recognition in the Toll-Like Receptor 4 Innate Immune Response. Scientific Reports, 2015, 5, 17997.	3.3	25
51	Influence of Type I Fimbriae and Fluid Shear Stress on Bacterial Behavior and Multicellular Architecture of Early Escherichia coli Biofilms at Single-Cell Resolution. Applied and Environmental Microbiology, 2018, 84, .	3.1	25
52	The cellular Toll-like receptor 4 antagonist E5531 can act as an agonist in horse whole blood. Veterinary Immunology and Immunopathology, 2007, 116, 182-189.	1.2	24
53	The frequency and duration of Salmonella â€“macrophage adhesion events determines infection efficiency. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140033.	4.0	23
54	Enhancement of immune response against Bordetella spp. by disrupting immunomodulation. Scientific Reports, 2019, 9, 20261.	3.3	22

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55	Modifying bacterial flagellin to evade Nod-like Receptor CARD 4 recognition enhances protective immunity against Salmonella. Nature Microbiology, 2020, 5, 1588-1597.	13.3	21
56	Hyperphosphorylated tau self-assembles into amorphous aggregates eliciting TLR4-dependent responses. Nature Communications, 2022, 13, 2692.	12.8	21
57	Lipid regulation of NLRP3 inflammasome activity through organelle stress. Trends in Immunology, 2021, 42, 807-823.	6.8	19
58	The TLR4 D299G and T399I SNPs Are Constitutively Active to Up-Regulate Expression of Trif-Dependent Genes. PLoS ONE, 2014, 9, e111460.	2.5	19
59	Multiple redundant stress resistance mechanisms are induced in Salmonella enterica serovar Typhimurium in response to alteration of the intracellular environment via TLR4 signalling. Microbiology (United Kingdom), 2009, 155, 2919-2929.	1.8	18
60	Inflammasome activation by Salmonella. Current Opinion in Microbiology, 2021, 64, 27-32.	5.1	18
61	The N-terminal loop of IRAK-4 death domain regulates ordered assembly of the Myddosome signalling scaffold. Scientific Reports, 2016, 6, 37267.	3.3	17
62	Toll-like receptor 3 activation impairs excitability and synaptic activity via TRIF signalling in immature rat and human neurons. Neuropharmacology, 2018, 135, 1-10.	4.1	17
63	Identification of Key Residues That Confer Rhodobacter sphaeroides LPS Activity at Horse TLR4/MD-2. PLoS ONE, 2014, 9, e98776.	2.5	17
64	Evolutionary loss of inflammasomes in the Carnivora and implications for the carriage of zoonotic infections. Cell Reports, 2021, 36, 109614.	6.4	16
65	The killer protein Gasdermin D. Cell Death and Differentiation, 2016, 23, 1897-1898.	11.2	15
66	Criticality of plasma membrane lipids reflects activation state of macrophage cells. Journal of the Royal Society Interface, 2020, 17, 20190803.	3.4	15
67	Gasdermin D and Beyond â€“ Gasdermin-mediated Pyroptosis in Bacterial Infections. Journal of Molecular Biology, 2022, 434, 167409.	4.2	15
68	Guardians of the Cell: Effector-Triggered Immunity Steers Mammalian Immune Defense. Trends in Immunology, 2019, 40, 939-951.	6.8	13
69	A genome-wide screen uncovers multiple roles for mitochondrial nucleoside diphosphate kinase D in inflammasome activation. Science Signaling, 2021, 14, .	3.6	13
70	Visualising pattern recognition receptor signalling. Biochemical Society Transactions, 2017, 45, 1077-1085.	3.4	12
71	The Parkinson's diseaseâ€“associated kinase LRRK2 regulates genes required for cell adhesion, polarization, and chemotaxis in activated murine macrophages. Journal of Biological Chemistry, 2020, 295, 10857-10867.	3.4	12
72	Preventing pores and inflammation. Science, 2020, 369, 1564-1565.	12.6	11

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73	Single-Molecule Light-Sheet Microscopy with Local Nanopipette Delivery. Analytical Chemistry, 2021, 93, 4092-4099.	6.5	11
74	Chicken cGAS Senses Fowlpox Virus Infection and Regulates Macrophage Effector Functions. Frontiers in Immunology, 2020, 11, 613079.	4.8	7
75	SIGNAL: A web-based iterative analysis platform integrating pathway and network approaches optimizes hit selection from genome-scale assays. Cell Systems, 2021, 12, 338-352.e5.	6.2	7
76	COVID-19 stokes inflammasomes. Journal of Experimental Medicine, 2021, 218, .	8.5	7
77	Investigation of Hostâ€“Microbeâ€“Parasite Interactions in an In Vitro 3D Model of the Vertebrate Gut. Advanced Biology, 2022, 6, .	2.5	6
78	Allergens and Activation of the Toll-Like Receptor Response. Methods in Molecular Biology, 2016, 1390, 341-350.	0.9	5
79	Pattern recognition receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	2
80	A Vision for Cytokine Biology with 20/20 Clarity. Function, 2020, 2, zqaa042.	2.3	1
81	Let's get this pyrin started!. Journal of Biological Chemistry, 2019, 294, 3367-3368.	3.4	0
82	Pattern recognition receptors in GtoPdb v.2021.3. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	0