John H Brumell

List of Publications by Year
in descending order

125 papers	18,913 citations	19657 61 h-index	18647 119 g-index
137 all docs	137 docs citations	137 times ranked	28466 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. Autophagy, 2008, 4, 151-175.	9.1	2,064
3	Autophagy Controls Salmonella Infection in Response to Damage to the Salmonella-containing Vacuole. Journal of Biological Chemistry, 2006, 281, 11374-11383.	3.4	578
4	Activation of antibacterial autophagy by NADPH oxidases. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6226-6231.	7.1	506
5	The Adaptor Protein p62/SQSTM1 Targets Invading Bacteria to the Autophagy Pathway. Journal of Immunology, 2009, 183, 5909-5916.	0.8	501
6	Bacteriaâ€“autophagy interplay: a battle for survival. Nature Reviews Microbiology, 2014, 12, 101-114.	28.6	496
7	Recognition of Bacteria in the Cytosol of Mammalian Cells by the Ubiquitin System. Current Biology, 2004, 14, 806-811.	3.9	457
8	Salmonella pathogenicity islands: big virulence in small packages. Microbes and Infection, 2000, 2, 145-156.	1.9	371
9	Listeriolysin O allows Listeria monocytogenes replication in macrophage vacuoles. Nature, 2008, 451, 350-354.	27.8	273
10	A comprehensive glossary of autophagy-related molecules and processes (2ndedition). Autophagy, 2011, 7, 1273-1294.	9.1	255
11	Functional genomic landscape of cancer-intrinsic evasion of killing by T cells. Nature, 2020, 586, 120-126.	27.8	249
12	Trs85 directs a Ypt1 GEF, TRAPPIII, to the phagophore to promote autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7811-7816.	7.1	244
13	Listeria monocytogenesEvades Killing by Autophagy During Colonization of Host Cells. Autophagy, 2007, 3, 442-451.	9.1	229
14	VAPs and ACBD5 tether peroxisomes to the ER for peroxisome maintenance and lipid homeostasis. Journal of Cell Biology, 2017, 216, 367-377.	5.2	214
15	Autophagy Signaling Through Reactive Oxygen Species. Antioxidants and Redox Signaling, 2011, 14, 2215-2231.	5.4	209
16	The many roles of NOX2 NADPH oxidase-derived ROS in immunity. Seminars in Immunopathology, 2010, 32, 415-430.	6.1	206
17	The invasion-associated type III secretion system of Salmonella enterica serovar Typhimurium is necessary for intracellular proliferation and vacuole biogenesis in epithelial cells. Cellular Microbiology, 2002, 4, 43-54.	2.1	195
18	SopB promotes phosphatidylinositol 3-phosphate formation on Salmonella vacuoles by recruiting Rab5 and Vps34. Journal of Cell Biology, 2008, 182, 741-752.	5.2	191

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19	The ubiquitin-binding adaptor proteins p62/SQSTM1 and NDP52 are recruited independently to bacteria-associated microdomains to target Salmonella to the autophagy pathway. Autophagy, 2011, 7, 341-345.	9.1	185
20	ALIS are Stress-Induced Protein Storage Compartments for Substrates of the Proteasome and Autophagy. Autophagy, 2006, 2, 189-199.	9.1	182
21	Manipulation of Rab GTPase Function by Intracellular Bacterial Pathogens. Microbiology and Molecular Biology Reviews, 2007, 71, 636-652.	6.6	180
22	Loss of the Arp2/3 complex component ARPC1B causes platelet abnormalities and predisposes to inflammatory disease. Nature Communications, 2017, 8, 14816.	12.8	176
23	Mutations in Tetratricopeptide Repeat Domain 7A Result in a Severe Form of Very Early Onset Inflammatory Bowel Disease. Gastroenterology, 2014, 146, 1028-1039.	1.3	175
24	Disruption of the Salmonella-Containing Vacuole Leads to Increased Replication of Salmonella enterica Serovar Typhimurium in the Cytosol of Epithelial Cells. Infection and Immunity, 2002, 70, 3264-3270.	2.2	169
25	Inhibition of Dopamine Receptor D4 Impedes Autophagic Flux, Proliferation, and Survival of Glioblastoma Stem Cells. Cancer Cell, 2016, 29, 859-873.	16.8	169
26	SifA, a Type III Secreted Effector ofSalmonella typhimurium, DirectsSalmonella-Induced Filament (Sif) Formation Along Microtubules. Traffic, 2002, 3, 407-415.	2.7	166
27	Expression and Secretion of Salmonella Pathogenicity Island-2 Virulence Genes in Response to Acidification Exhibit Differential Requirements of a Functional Type III Secretion Apparatus and SsaL. Journal of Biological Chemistry, 2004, 279, 49804-49815.	3.4	166
28	SifA permits survival and replication of Salmonella typhimurium in murine macrophages. Cellular Microbiology, 2001, 3, 75-84.	2.1	163
29	Salmonellaâ€Containing Vacuoles: Directing Traffic and Nesting to Grow. Traffic, 2008, 9, 2022-2031.	2.7	156
30	Interactions of Pathogenic Bacteria with Autophagy Systems. Current Biology, 2012, 22, R540-R545.	3.9	154
31	A network of Rab GTPases controls phagosome maturation and is modulated by Salmonella enterica serovar Typhimurium. Journal of Cell Biology, 2007, 176, 263-268.	5.2	151
32	SalmonellaImpairs RILP Recruitment to Rab7 during Maturation of Invasion Vacuoles. Molecular Biology of the Cell, 2004, 15, 3146-3154.	2.1	147
33	Microbial pathogenesis: Lipid rafts as pathogen portals. Current Biology, 2000, 10, R823-R825.	3.9	146
34	The Phosphoinositide Phosphatase SopB Manipulates Membrane Surface Charge and Trafficking of the Salmonella-Containing Vacuole. Cell Host and Microbe, 2010, 7, 453-462.	11.0	144
35	A Diacylglycerol-Dependent Signaling Pathway Contributes to Regulation of Antibacterial Autophagy. Cell Host and Microbe, 2010, 8, 137-146.	11.0	141
36	Defects in Nicotinamide-adenine Dinucleotide Phosphate Oxidase Genes NOX1 and DUOX2 in Very Early Onset Inflammatory Bowel Disease. Cellular and Molecular Gastroenterology and Hepatology, 2015, 1, 489-502.	4.5	127

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37	Autophagy Recognizes Intracellular Salmonella enterica serovar Typhimurium in Damaged Vacuoles. Autophagy, 2006, 2, 156-158.	9.1	126
38	Rab7 and Arl8 <scp>GTPases</scp> are Necessary for Lysosome Tubulation in Macrophages. Traffic, 2012, 13, 1667-1679.	2.7	118
39	Listeria monocytogenes exploits efferocytosis to promote cell-to-cell spread. Nature, 2014, 509, 230-234.	27.8	118
40	Salmonella redirects phagosomal maturation. Current Opinion in Microbiology, 2004, 7, 78-84.	5.1	117
41	Characterization of Salmonella -Induced Filaments (Sifs) Reveals a Delayed Interaction Between Salmonella -Containing Vacuoles and Late Endocytic Compartments. Traffic, 2001, 2, 643-653.	2.7	112
42	Global Interactomics Uncovers Extensive Organellar Targeting by Zika Virus. Molecular and Cellular Proteomics, 2018, 17, 2242-2255.	3.8	112
43	Palmitoylation of NOD1 and NOD2 is required for bacterial sensing. Science, 2019, 366, 460-467.	12.6	109
44	Host and bacterial factors that regulate LC3 recruitment toListeria monocytogenesduring the early stages of macrophage infection. Autophagy, 2013, 9, 985-995.	9.1	108
45	Variants in Nicotinamide Adenine Dinucleotide Phosphate Oxidase Complex Components Determine Susceptibility to Very Early Onset Inflammatory Bowel Disease. Gastroenterology, 2014, 147, 680-689.e2.	1.3	106
46	SopD2 is a Novel Type III Secreted Effector of Salmonella typhimurium That Targets Late Endocytic Compartments Upon Delivery Into Host Cells. Traffic, 2003, 4, 36-48.	2.7	104
47	SseJ Deacylase Activity by Salmonella enterica Serovar Typhimurium Promotes Virulence in Mice. Infection and Immunity, 2005, 73, 6249-6259.	2.2	102
48	Antibacterial autophagy occurs at PI(3)P-enriched domains of the endoplasmic reticulum and requires Rab1 GTPase. Autophagy, 2011, 7, 17-26.	9.1	102
49	Plasma membrane integrity: implications for health and disease. BMC Biology, 2021, 19, 71.	3.8	95
50	Salmonellainteractions with host cells:in vitroto in vivo. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 623-631.	4.0	94
51	Variants in TRIM22 That Affect NOD2 Signaling Are Associated With Very-Early-Onset Inflammatory Bowel Disease. Gastroenterology, 2016, 150, 1196-1207.	1.3	88
52	The related effector proteins SopD and SopD2 from Salmonella enterica serovar Typhimurium contribute to virulence during systemic infection of mice. Molecular Microbiology, 2004, 54, 1186-1198.	2.5	85
53	Alteration of Epithelial Structure and Function Associated with PtdIns(4,5)P2 Degradation by a Bacterial Phosphatase. Journal of General Physiology, 2007, 129, 267-283.	1.9	85
54	Salmonella Disrupts Host Endocytic Trafficking by SopD2-Mediated Inhibition of Rab7. Cell Reports, 2015, 12, 1508-1518.	6.4	83

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55	The peroxisomal AAA ATPase complex prevents pexophagy and development of peroxisome biogenesis disorders. Autophagy, 2017, 13, 868-884.	9.1	81
56	Receptor protein complexes are in control of autophagy. Autophagy, 2012, 8, 1701-1705.	9.1	77
57	Listeriolysin O Suppresses Phospholipase C-Mediated Activation of the Microbicidal NADPH Oxidase to Promote Listeria monocytogenes Infection. Cell Host and Microbe, 2011, 10, 627-634.	11.0	72
58	Invasion of the Brain by Listeria monocytogenes Is Mediated by InlF and Host Cell Vimentin. MBio, 2018, 9, .	4.1	72
59	Higher Activity of the Inducible Nitric Oxide Synthase Contributes to Very Early Onset Inflammatory Bowel Disease. Clinical and Translational Gastroenterology, 2014, 5, e46.	2.5	71
60	Interaction of the Salmonella-containing Vacuole with the Endocytic Recycling System*. Journal of Biological Chemistry, 2005, 280, 24634-24641.	3.4	69
61	Single Nucleotide Polymorphisms That Increase Expression of the Guanosine Triphosphatase RAC1 Are Associated With Ulcerative Colitis. Gastroenterology, 2011, 141, 633-641.	1.3	67
62	SopD acts cooperatively with SopB during Salmonella enterica serovar Typhimurium invasion. Cellular Microbiology, 2007, 9, 2839-2855.	2.1	64
63	Sorting nexin 3 (SNX3) is a component of a tubular endosomal network induced by Salmonella and involved in maturation of the Salmonella-containing vacuole. Cellular Microbiology, 2010, 12, 1352-1367.	2.1	63
64	Bacterial invasion: Force feeding by Salmonella. Current Biology, 1999, 9, R277-R280.	3.9	62
65	Yersinia Entry into Host Cells Requires Rab5-Dependent Dephosphorylation of PI(4,5)P2 and Membrane Scission. Cell Host and Microbe, 2012, 11, 117-128.	11.0	59
66	Salmonella-Induced Filament Formation Is a Dynamic Phenotype Induced by Rapidly Replicating Salmonella enterica Serovar Typhimurium in Epithelial Cells. Infection and Immunity, 2005, 73, 1204-1208.	2.2	58
67	An ATG16L1-dependent pathway promotes plasma membrane repair and limits Listeria monocytogenes cell-to-cell spread. Nature Microbiology, 2018, 3, 1472-1485.	13.3	57
68	Listeriolysin O: from bazooka to Swiss army knife. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160222.	4.0	55
69	Autophagy in Immunity Against Intracellular Bacteria. Current Topics in Microbiology and Immunology, 2009, 335, 189-215.	1.1	55
70	Bacterial toxins can inhibit host cell autophagy through cAMP generation. Autophagy, 2011, 7, 957-965.	9.1	54
71	A glucose meter interface for point-of-care gene circuit-based diagnostics. Nature Communications, 2021, 12, 724.	12.8	54
72	V-ATPase is a universal regulator of LC3-associated phagocytosis and non-canonical autophagy. Journal of Cell Biology, 2022, 221, .	5.2	53

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73	GABARAP sequesters the FLCN-FNIP tumor suppressor complex to couple autophagy with lysosomal biogenesis. Science Advances, 2021, 7, eabj2485.	10.3	51
74	Role of lipid-mediated signal transduction in bacterial internalization. Cellular Microbiology, 2003, 5, 287-297.	2.1	50
75	Requirement for N-Ethylmaleimide-sensitive Factor Activity at Different Stages of Bacterial Invasion and Phagocytosis. Journal of Biological Chemistry, 2001, 276, 4772-4780.	3.4	49
76	Role for Myosin II in Regulating Positioning ofSalmonella-Containing Vacuoles and Intracellular Replication. Infection and Immunity, 2008, 76, 2722-2735.	2.2	49
77	The Diaphanous-Related Formins Promote Protrusion Formation and Cell-to-Cell Spread ofListeria monocytogenes. Journal of Infectious Diseases, 2015, 211, 1185-1195.	4.0	49
78	NADPH oxidases contribute to autophagy regulation. Autophagy, 2009, 5, 887-889.	9.1	47
79	Lysosomal pH Plays a Key Role in Regulation of mTOR Activity in Osteoclasts. Journal of Cellular Biochemistry, 2016, 117, 413-425.	2.6	47
80	Salmonella exploits Arl8B-directed kinesin activity to promote endosome tubulation and cell-to-cell transfer. Cellular Microbiology, 2011, 13, 1812-1823.	2.1	43
81	Salmonella -Containing Vacuoles Display Centrifugal Movement Associated with Cell-to-Cell Transfer in Epithelial Cells. Infection and Immunity, 2009, 77, 996-1007.	2.2	39
82	BioID screen of Salmonella type 3 secreted effectors reveals host factors involved in vacuole positioning and stability during infection. Nature Microbiology, 2019, 4, 2511-2522.	13.3	39
83	Avoiding death by autophagy: Interactions ofListeria monocytogeneswith the macrophage autophagy system. Autophagy, 2008, 4, 368-371.	9.1	35
84	Autophagy proteins are not universally required for phagosome maturation. Autophagy, 2016, 12, 1440-1446.	9.1	35
85	HACE1-dependent protein degradation provides cardiac protection in response to haemodynamic stress. Nature Communications, 2014, 5, 3430.	12.8	31
86	Mutational analysis of Salmonella translocated effector members SifA and SopD2 reveals domains implicated in translocation, subcellular localization and function. Microbiology (United Kingdom), 2006, 152, 2323-2343.	1.8	30
87	Active Transport of Phosphorylated Carbohydrates Promotes Intestinal Colonization and Transmission of a Bacterial Pathogen. PLoS Pathogens, 2015, 11, e1005107.	4.7	30
88	Interactions of Listeria monocytogenes with the Autophagy System of Host Cells. Advances in Immunology, 2012, 113, 7-18.	2.2	28
89	Bacterial subversion of host cytoskeletal machinery: Hijacking formins and the Arp2/3 complex. BioEssays, 2014, 36, 687-696.	2.5	27
90	Type I interferon promotes cell-to-cell spread ofListeria monocytogenes. Cellular Microbiology, 2017, 19, e12660.	2.1	27

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91	Communication Between Autophagy and Insulin Action: At the Crux of Insulin Action-Insulin Resistance?. Frontiers in Cell and Developmental Biology, 2021, 9, 708431.	3.7	27
92	Disruption of autophagy by increased 5-HT alters gut microbiota and enhances susceptibility to experimental colitis and Crohnâ€™s disease. Science Advances, 2021, 7, eabi6442.	10.3	25
93	Formin-mediated actin polymerization promotesSalmonellainvasion. Cellular Microbiology, 2013, 15, 2051-2063.	2.1	22
94	Salmonellaexploits host Rho GTPase signalling pathways through the phosphatase activity of SopB. Cellular Microbiology, 2018, 20, e12938.	2.1	22
95	C5orf51 is a component of the MON1-CCZ1 complex and controls RAB7A localization and stability during mitophagy. Autophagy, 2022, 18, 829-840.	9.1	21
96	Multiple Host Kinases Contribute to Akt Activation during Salmonella Infection. PLoS ONE, 2013, 8, e71015.	2.5	20
97	Mice lacking NOX2 are hyperphagic and store fat preferentially in the liver. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E1341-E1353.	3.5	19
98	Septin-regulated actin dynamics promoteSalmonellainvasion of host cells. Cellular Microbiology, 2018, 20, e12866.	2.1	18
99	Kinase-independent synthesis of 3-phosphorylated phosphoinositides by a phosphotransferase. Nature Cell Biology, 2022, 24, 708-722.	10.3	18
100	Rab5 regulates macropinocytosis by recruiting the inositol 5-phosphatases OCRL and Inpp5b that hydrolyse PtdIns(4,5)P2. Journal of Cell Science, 2021, 134, .	2.0	17
101	Accumulation of genetic variants associated with immunity in the selective breeding of broilers. BMC Genetics, 2020, 21, 5.	2.7	13
102	Activity-independent targeting of mTOR to lysosomes in primary osteoclasts. Scientific Reports, 2017, 7, 3005.	3.3	11
103	Listeria exploits IFITM3 to suppress antibacterial activity in phagocytes. Nature Communications, 2021, 12, 4999.	12.8	11
104	Strain-Specific Interactions of Listeria monocytogenes with the Autophagy System in Host Cells. PLoS ONE, 2015, 10, e0125856.	2.5	10
105	N-terminal conservation of putative type III secreted effectors of Salmonella typhimurium. Molecular Microbiology, 2002, 36, 773-774.	2.5	9
106	A role for diacylglycerol in antibacterial autophagy. Autophagy, 2011, 7, 331-333.	9.1	9
107	Modulation of Host Phosphoinositide Metabolism During Salmonella Invasion by the Type III Secreted Effector SopB. Methods in Cell Biology, 2012, 108, 173-186.	1.1	9
108	An autophagy-independent role for ATG16L1: promoting lysosome-mediated plasma membrane repair. Autophagy, 2019, 15, 932-933.	9.1	9

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109	Global Proximity Interactome of the Human Macroautophagy Pathway. Autophagy, 2022, 18, 1174-1186.	9.1	9
110	Macrophage NOX2 NADPH oxidase maintains alveolar homeostasis in mice. Blood, 2022, 139, 2855-2870.	1.4	9
111	Salmonella effector SopD promotes plasma membrane scission by inhibiting Rab10. Nature Communications, 2021, 12, 4707.	12.8	8
112	A sweet way of sensing danger. Nature, 2012, 482, 316-317.	27.8	7
113	Brucella â€œHitches a Rideâ€•with Autophagy. Cell Host and Microbe, 2012, 11, 2-4.	11.0	7
114	A Listeria escape trick. Nature, 2008, 455, 1186-1187.	27.8	6
115	Cutting Edge: NOX2 NADPH Oxidase Controls Infection by an Intracellular Bacterial Pathogen through Limiting the Type 1 IFN Response. Journal of Immunology, 2021, 206, 323-328.	0.8	5
116	Src homology domain 2 adaptors affect adherence of Salmonella enterica serovar Typhimurium to non-phagocytic cells. Microbiology (United Kingdom), 2007, 153, 3517-3526.	1.8	4
117	Eating Twice for the Sake of Immunity: A Phagocytic Receptor that Activates Autophagy. Cell Host and Microbe, 2009, 6, 297-298.	11.0	4
118	Bacterial Invasion: Entry through the Exocyst Door. Current Biology, 2010, 20, R677-R679.	3.9	4
119	Bacterial Escape Artists Set Afire. Science, 2013, 339, 912-913.	12.6	2
120	SALMONELLA INTERACTIONS WITH HOST CELLS: IN VITRO TO IN VIVO. , 2001, , .		2
121	Intracellular Voyeurism: Examining the Modulation of Host Cell Activities by Salmonella enterica Serovar Typhimurium. EcoSal Plus, 2005, 1, .	5.4	0
122	NADPH oxidase complex and IBD Candidate Gene studies. Inflammatory Bowel Diseases, 2011, 17, S8.	1.9	0
123	Autophagyâ€Related Protein 16L1 (Atg16L1) Depletion Induces Insulin Resistance Through Decreased IRS Expression. FASEB Journal, 2018, 32, lb419.	0.5	0
124	Atg16L1 Knockout Induces Insulin Resistance through Proteasomal IRS1 Degradation, Mediated by the Induction of ER Stress. FASEB Journal, 2019, 33, 719.10.	0.5	0
125	The MCF Toxin of the Extracellular Pathogen Vibrio vulnificus is Activated by and Targets Host GTPases. FASEB Journal, 2022, 36, .	0.5	0