

Jayanta Debnath

List of Publications by Citations

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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.

102
papers

21,235
citations

52
h-index

108
g-index

108
ext. papers

24,341
ext. citations

15.1
avg. IF

6.94
L-index

#	Paper	IF	Citations
102	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
101	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	10.2	2783
100	Morphogenesis and oncogenesis of MCF-10A mammary epithelial acini grown in three-dimensional basement membrane cultures. <i>Methods</i> , 2003 , 30, 256-68	4.6	1507
99	Molecular definitions of autophagy and related processes. <i>EMBO Journal</i> , 2017 , 36, 1811-1836	13	857
98	Modelling glandular epithelial cancers in three-dimensional cultures. <i>Nature Reviews Cancer</i> , 2005 , 5, 675-88	31.3	824
97	Autophagy in malignant transformation and cancer progression. <i>EMBO Journal</i> , 2015 , 34, 856-80	13	801
96	Inhibition of mTOR by rapamycin abolishes cognitive deficits and reduces amyloid-beta levels in a mouse model of Alzheimer's disease. <i>PLoS ONE</i> , 2010 , 5, e9979	3.7	715
95	The role of apoptosis in creating and maintaining luminal space within normal and oncogene-expressing mammary acini. <i>Cell</i> , 2002 , 111, 29-40	56.2	637
94	Autophagy at the crossroads of catabolism and anabolism. <i>Nature Reviews Molecular Cell Biology</i> , 2015 , 16, 461-72	48.7	602
93	Induction of autophagy during extracellular matrix detachment promotes cell survival. <i>Molecular Biology of the Cell</i> , 2008 , 19, 797-806	3.5	433
92	Integrins and EGFR coordinately regulate the pro-apoptotic protein Bim to prevent anoikis. <i>Nature Cell Biology</i> , 2003 , 5, 733-40	23.4	431
91	FOXO3A directs a protective autophagy program in haematopoietic stem cells. <i>Nature</i> , 2013 , 494, 323-7	50.4	430
90	Does autophagy contribute to cell death?. <i>Autophagy</i> , 2005 , 1, 66-74	10.2	369
89	Autophagy as a stress-response and quality-control mechanism: implications for cell injury and human disease. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2013 , 8, 105-37	34	364
88	Autophagy facilitates glycolysis during Ras-mediated oncogenic transformation. <i>Molecular Biology of the Cell</i> , 2011 , 22, 165-78	3.5	361
87	Requirement for Tec kinases Rlk and Itk in T cell receptor signaling and immunity. <i>Science</i> , 1999 , 284, 638-41	33.3	334
86	Targeting Autophagy in Cancer: Recent Advances and Future Directions. <i>Cancer Discovery</i> , 2019 , 9, 1167-1181	11.1	305

85	Autophagy promotes immune evasion of pancreatic cancer by degrading MHC-I. <i>Nature</i> , 2020 , 581, 100-105	10.4	270
84	Unique role for ATG5 in neutrophil-mediated immunopathology during <i>M. tuberculosis</i> infection. <i>Nature</i> , 2015 , 528, 565-9	50.4	231
83	Autophagy and metastasis: another double-edged sword. <i>Current Opinion in Cell Biology</i> , 2010 , 22, 241-59		227
82	PLIC proteins or ubiquilins regulate autophagy-dependent cell survival during nutrient starvation. <i>EMBO Reports</i> , 2009 , 10, 173-9	6.5	226
81	Akt and autophagy cooperate to promote survival of drug-resistant glioma. <i>Science Signaling</i> , 2010 , 3, ra81	8.8	225
80	Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) is required for induction of autophagy during lumen formation in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3438-43	11.5	212
79	ATG12 conjugation to ATG3 regulates mitochondrial homeostasis and cell death. <i>Cell</i> , 2010 , 142, 590-600	16.2	207
78	A comprehensive glossary of autophagy-related molecules and processes (2nd edition). <i>Autophagy</i> , 2011 , 7, 1273-94	10.2	205
77	PERK integrates autophagy and oxidative stress responses to promote survival during extracellular matrix detachment. <i>Molecular and Cellular Biology</i> , 2011 , 31, 3616-29	4.8	201
76	Beige Adipocyte Maintenance Is Regulated by Autophagy-Induced Mitochondrial Clearance. <i>Cell Metabolism</i> , 2016 , 24, 402-419	24.6	191
75	Autophagy-dependent production of secreted factors facilitates oncogenic RAS-driven invasion. <i>Cancer Discovery</i> , 2014 , 4, 466-79	24.4	184
74	Cellular and metabolic functions for autophagy in cancer cells. <i>Trends in Cell Biology</i> , 2015 , 25, 37-45	18.3	178
73	Autophagy and the cell biology of age-related disease. <i>Nature Cell Biology</i> , 2018 , 20, 1338-1348	23.4	177
72	Autophagy and tumorigenesis. <i>FEBS Letters</i> , 2010 , 584, 1427-35	3.8	167
71	ATG12-ATG3 interacts with Alix to promote basal autophagic flux and late endosome function. <i>Nature Cell Biology</i> , 2015 , 17, 300-10	23.4	165
70	Autophagy inhibition and antimalarials promote cell death in gastrointestinal stromal tumor (GIST). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14333-8	11.5	165
69	The LC3-conjugation machinery specifies the loading of RNA-binding proteins into extracellular vesicles. <i>Nature Cell Biology</i> , 2020 , 22, 187-199	23.4	149
68	Akt activation disrupts mammary acinar architecture and enhances proliferation in an mTOR-dependent manner. <i>Journal of Cell Biology</i> , 2003 , 163, 315-26	7.3	124

67	Extracellular matrix regulation of autophagy. <i>Current Opinion in Cell Biology</i> , 2008 , 20, 583-8	9	122
66	Tec family kinases modulate thresholds for thymocyte development and selection. <i>Journal of Experimental Medicine</i> , 2000 , 192, 987-1000	16.6	116
65	Modeling morphogenesis and oncogenesis in three-dimensional breast epithelial cultures. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2008 , 3, 313-39	34	106
64	Autophagy and tumorigenesis. <i>Seminars in Immunopathology</i> , 2010 , 32, 383-96	12	100
63	NBR1 enables autophagy-dependent focal adhesion turnover. <i>Journal of Cell Biology</i> , 2016 , 212, 577-90	7.3	96
62	Inflammatory signaling cascades and autophagy in cancer. <i>Autophagy</i> , 2018 , 14, 190-198	10.2	94
61	Autocrine CSF-1R activation promotes Src-dependent disruption of mammary epithelial architecture. <i>Journal of Cell Biology</i> , 2004 , 165, 263-73	7.3	88
60	Autophagy suppression promotes apoptotic cell death in response to inhibition of the PI3K-mTOR pathway in pancreatic adenocarcinoma. <i>Journal of Molecular Medicine</i> , 2011 , 89, 877-89	5.5	83
59	Autophagy-Dependent Shuttling of TBC1D5 Controls Plasma Membrane Translocation of GLUT1 and Glucose Uptake. <i>Molecular Cell</i> , 2017 , 67, 84-95.e5	17.6	80
58	Autophagy and cancer metabolism. <i>Methods in Enzymology</i> , 2014 , 542, 25-57	1.7	80
57	Beyond self-eating: The control of nonautophagic functions and signaling pathways by autophagy-related proteins. <i>Journal of Cell Biology</i> , 2018 , 217, 813-822	7.3	70
56	Loss of Atg12, but not Atg5, in pro-opiomelanocortin neurons exacerbates diet-induced obesity. <i>Autophagy</i> , 2015 , 11, 145-54	10.2	62
55	Autophagy in adhesion and migration. <i>Journal of Cell Science</i> , 2016 , 129, 3685-3693	5.3	62
54	Detachment-induced autophagy during anoikis and lumen formation in epithelial acini. <i>Autophagy</i> , 2008 , 4, 351-3	10.2	59
53	Clinical utility of LC3 and p62 immunohistochemistry in diagnosis of drug-induced autophagic vacuolar myopathies: a case-control study. <i>PLoS ONE</i> , 2012 , 7, e36221	3.7	57
52	The multifaceted roles of autophagy in tumors-implications for breast cancer. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2011 , 16, 173-87	2.4	53
51	Antitumor adaptive immunity remains intact following inhibition of autophagy and antimalarial treatment. <i>Journal of Clinical Investigation</i> , 2016 , 126, 4417-4429	15.9	52
50	IB kinase complex (IKK) triggers detachment-induced autophagy in mammary epithelial cells independently of the PI3K-AKT-MTORC1 pathway. <i>Autophagy</i> , 2013 , 9, 1214-27	10.2	47

49	Autophagic Degradation of NBR1 Restricts Metastatic Outgrowth during Mammary Tumor Progression. <i>Developmental Cell</i> , 2020 , 52, 591-604.e6	10.2	43
48	The Interconnections between Autophagy and Integrin-Mediated Cell Adhesion. <i>Journal of Molecular Biology</i> , 2017 , 429, 515-530	6.5	42
47	An ATG16L1-dependent pathway promotes plasma membrane repair and limits Listeria monocytogenes cell-to-cell spread. <i>Nature Microbiology</i> , 2018 , 3, 1472-1485	26.6	40
46	The Ubiquitin Binding Protein TAX1BP1 Mediates Autophagosome Induction and the Metabolic Transition of Activated T Cells. <i>Immunity</i> , 2017 , 46, 405-420	32.3	38
45	Neurotoxic microglia promote TDP-43 proteinopathy in progranulin deficiency. <i>Nature</i> , 2020 , 588, 459-465.4	45.4	38
44	Ubiquitination and proteasomal degradation of ATG12 regulates its proapoptotic activity. <i>Autophagy</i> , 2014 , 10, 2269-78	10.2	36
43	Requirements for activation and RAFT localization of the T-lymphocyte kinase Rlk/Txk. <i>BMC Immunology</i> , 2001 , 2, 3	3.7	36
42	Ironing out VPS34 inhibition. <i>Nature Cell Biology</i> , 2015 , 17, 1-3	23.4	29
41	ATG12-ATG3 connects basal autophagy and late endosome function. <i>Autophagy</i> , 2015 , 11, 961-2	10.2	29
40	Kinase-mediated RAS signaling via membraneless cytoplasmic protein granules. <i>Cell</i> , 2021 , 184, 2649-2664.e1829	64.2	29
39	A computational approach to resolve cell level contributions to early glandular epithelial cancer progression. <i>BMC Systems Biology</i> , 2009 , 3, 122	3.5	23
38	Mouse models address key concerns regarding autophagy inhibition in cancer therapy. <i>Cancer Discovery</i> , 2014 , 4, 873-5	24.4	20
37	Beyond Autophagy: The Expanding Roles of ATG8 Proteins. <i>Trends in Biochemical Sciences</i> , 2021 , 46, 673-686	16.5	20
36	Therapeutic implications of autophagy-mediated cell survival in gastrointestinal stromal tumor after treatment with imatinib mesylate. <i>Autophagy</i> , 2010 , 6, 1190-1	10.2	19
35	Ubiquilins accelerate autophagosome maturation and promote cell survival during nutrient starvation. <i>Autophagy</i> , 2009 , 5, 573-5	10.2	19
34	Unraveling the mechanisms that specify molecules for secretion in extracellular vesicles. <i>Methods</i> , 2020 , 177, 15-26	4.6	17
33	Autophagy-independent senescence and genome instability driven by targeted telomere dysfunction. <i>Autophagy</i> , 2015 , 11, 527-37	10.2	16
32	ATG12-ATG3 and mitochondria. <i>Autophagy</i> , 2011 , 7, 109-11	10.2	16

31	Cyclic AMP regulates formation of mammary epithelial acini in vitro. <i>Molecular Biology of the Cell</i> , 2012 , 23, 2973-81	3.5	16
30	Autophagy suppresses breast cancer metastasis by degrading NBR1. <i>Autophagy</i> , 2020 , 16, 1164-1165	10.2	15
29	A computationally engineered RAS rheostat reveals RAS-ERK signaling dynamics. <i>Nature Chemical Biology</i> , 2017 , 13, 119-126	11.7	15
28	Computational investigation of epithelial cell dynamic phenotype in vitro. <i>Theoretical Biology and Medical Modelling</i> , 2009 , 6, 8	2.3	14
27	Ras, autophagy and glycolysis. <i>Cell Cycle</i> , 2011 , 10, 1516-7	4.7	14
26	Targeting chaperone-mediated autophagy in cancer. <i>Science Translational Medicine</i> , 2011 , 3, 109ps45	17.5	12
25	Detachment-induced autophagy in three-dimensional epithelial cell cultures. <i>Methods in Enzymology</i> , 2009 , 452, 423-39	1.7	12
24	NBR1-dependent selective autophagy is required for efficient cell-matrix adhesion site disassembly. <i>Autophagy</i> , 2016 , 12, 1958-1959	10.2	9
23	Macropinocytosis Fuels Prostate Cancer. <i>Cancer Discovery</i> , 2018 , 8, 800-802	24.4	9
22	LC3-dependent extracellular vesicle loading and secretion (LDELS). <i>Autophagy</i> , 2020 , 16, 1162-1163	10.2	8
21	Atg12-Atg3 Coordinates Basal Autophagy, Endolysosomal Trafficking, and Exosome Release. <i>Molecular and Cellular Oncology</i> , 2018 , 5, e1039191	1.2	8
20	Doubling down on the autophagy pathway to suppress tumor growth. <i>Genes and Development</i> , 2014 , 28, 1137-9	12.6	7
19	HPLC-based method for determination of absolute configuration of alpha-chiral amines. <i>Analytical Chemistry</i> , 1993 , 65, 1456-61	7.8	6
18	Autophagy in stromal fibroblasts promotes tumor desmoplasia and mammary tumorigenesis. <i>Genes and Development</i> , 2021 , 35, 963-975	12.6	6
17	CRL4 targets Elongin C for ubiquitination and degradation to modulate CRL5 signaling. <i>EMBO Journal</i> , 2018 , 37,	13	6
16	At the crossroads of autophagy and infection: Noncanonical roles for ATG proteins in viral replication. <i>Journal of Cell Biology</i> , 2016 , 214, 503-5	7.3	5
15	Ribosome profiling reveals a functional role for autophagy in mRNA translational control. <i>Communications Biology</i> , 2020 , 3, 388	6.7	5
14	The pleiotropic functions of autophagy in metastasis. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	4

13	Autophagy enables retromer-dependent plasma membrane translocation of SLC2A1/GLUT1 to enhance glucose uptake. <i>Autophagy</i> , 2017 , 13, 2013-2014	10.2	3
12	A nuclear option that initiates autophagy. <i>Molecular Cell</i> , 2015 , 57, 393-5	17.6	3
11	Activation of an adrenergic pro-drug through sequential stereoselective action of tandem target enzymes. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 189, 33-9	3.4	3
10	Triggering Selective Autophagy at the Right Place and the Right Time. <i>Molecular Cell</i> , 2016 , 64, 215-216	17.6	2
9	Autophagy Devours the Nuclear Lamina to Thwart Oncogenic Stress. <i>Developmental Cell</i> , 2015 , 35, 529-530	10.2	2
8	Autophagy cargo receptors are secreted via extracellular vesicles and particles in response to endolysosomal inhibition or impaired autophagosome maturation		2
7	Longitudinal tracking of neuronal mitochondria delineates PINK1/Parkin-dependent mechanisms of mitochondrial recycling and degradation. <i>Science Advances</i> , 2021 , 7,	14.3	1
6	Autophagy in host stromal fibroblasts supports tumor desmoplasia. <i>Autophagy</i> , 2021 , 1-2	10.2	1
5	Unconventional secretion: cargo channeling by TMED10. <i>Cell Research</i> , 2020 , 30, 713-714	24.7	0
4	NRF2 activates macropinocytosis upon autophagy inhibition. <i>Cancer Cell</i> , 2021 , 39, 596-598	24.3	0
3	Autophagy in PDGFR β mesenchymal cells is essential for intestinal stem cell survival.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2202016119	11.5	0
2	The Dual Roles for Autophagy in Cell Death and Survival 2006 , 105-126		
1	WIPing the Brakes off Autophagy Induction. <i>Molecular Cell</i> , 2018 , 72, 203-204	17.6	