Jayanta Debnath

List of Publications by Year in Descending Order

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	Autophagy in PDGFRα mesenchymal cells is essential for intestinal stem cell survival.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2202016119	11.5	0
101	NRF2 activates macropinocytosis upon autophagy inhibition. *Cancer Cell*, **2021**, 39, 596-598	24.3	0
100	Kinase-mediated RAS signaling via membraneless cytoplasmic protein granules. *Cell*, **2021**, 184, 2649-2664.e18	38.2	29
99	Autophagy in stromal fibroblasts promotes tumor desmoplasia and mammary tumorigenesis. *Genes and Development*, **2021**, 35, 963-975	12.6	6
98	The pleiotropic functions of autophagy in metastasis. *Journal of Cell Science*, **2021**, 134,	5.3	4
97	Longitudinal tracking of neuronal mitochondria delineates PINK1/Parkin-dependent mechanisms of mitochondrial recycling and degradation. *Science Advances*, **2021**, 7,	14.3	1
96	Beyond Autophagy: The Expanding Roles of ATG8 Proteins. *Trends in Biochemical Sciences*, **2021**, 46, 673-686	16.5	20
95	Autophagy in host stromal fibroblasts supports tumor desmoplasia. *Autophagy*, **2021**, 1-2	10.2	1
94	Autophagic Degradation of NBR1 Restricts Metastatic Outgrowth during Mammary Tumor Progression. *Developmental Cell*, **2020**, 52, 591-604.e6	10.2	43
93	The LC3-conjugation machinery specifies the loading of RNA-binding proteins into extracellular vesicles. *Nature Cell Biology*, **2020**, 22, 187-199	23.4	149
92	Unraveling the mechanisms that specify molecules for secretion in extracellular vesicles. *Methods*, **2020**, 177, 15-26	4.6	17
91	Autophagy suppresses breast cancer metastasis by degrading NBR1. *Autophagy*, **2020**, 16, 1164-1165	10.2	15
90	LC3-dependent extracellular vesicle loading and secretion (LDELS). *Autophagy*, **2020**, 16, 1162-1163	10.2	8
89	Ribosome profiling reveals a functional role for autophagy in mRNA translational control. *Communications Biology*, **2020**, 3, 388	6.7	5
88	Neurotoxic microglia promote TDP-43 proteinopathy in progranulin deficiency. *Nature*, **2020**, 588, 459-465	50.4	38
87	Unconventional secretion: cargo channeling by TMED10. *Cell Research*, **2020**, 30, 713-714	24.7	0
86	Autophagy promotes immune evasion of pancreatic cancer by degrading MHC-I. *Nature*, **2020**, 581, 100-105	50.4	270

85	Targeting Autophagy in Cancer: Recent Advances and Future Directions. *Cancer Discovery*, **2019**, 9, 1167-1181	24.4	305
84	Atg12-Atg3 Coordinates Basal Autophagy, Endolysosomal Trafficking, and Exosome Release. *Molecular and Cellular Oncology*, **2018**, 5, e1039191	1.2	8
83	Beyond self-eating: The control of nonautophagic functions and signaling pathways by autophagy-related proteins. *Journal of Cell Biology*, **2018**, 217, 813-822	7.3	70
82	Inflammatory signaling cascades and autophagy in cancer. *Autophagy*, **2018**, 14, 190-198	10.2	94
81	An ATG16L1-dependent pathway promotes plasma membrane repair and limits Listeria monocytogenes cell-to-cell spread. *Nature Microbiology*, **2018**, 3, 1472-1485	26.6	40
80	Autophagy and the cell biology of age-related disease. *Nature Cell Biology*, **2018**, 20, 1338-1348	23.4	177
79	WIPIng the Brakes off Autophagy Induction. *Molecular Cell*, **2018**, 72, 203-204	17.6	
78	CRL4 targets Elongin C for ubiquitination and degradation to modulate CRL5 signaling. *EMBO Journal*, **2018**, 37,	13	6
77	Macropinocytosis Fuels Prostate Cancer. *Cancer Discovery*, **2018**, 8, 800-802	24.4	9
76	Autophagy-Dependent Shuttling of TBC1D5 Controls Plasma Membrane Translocation of GLUT1 and Glucose Uptake. *Molecular Cell*, **2017**, 67, 84-95.e5	17.6	80
75	Molecular definitions of autophagy and related processes. *EMBO Journal*, **2017**, 36, 1811-1836	13	857
74	The Ubiquitin Binding Protein TAX1BP1 Mediates Autophagasome Induction and the Metabolic Transition of Activated T Cells. *Immunity*, **2017**, 46, 405-420	32.3	38
73	The Interconnections between Autophagy and Integrin-Mediated Cell Adhesion. *Journal of Molecular Biology*, **2017**, 429, 515-530	6.5	42
72	Autophagy enables retromer-dependent plasma membrane translocation of SLC2A1/GLUT1 to enhance glucose uptake. *Autophagy*, **2017**, 13, 2013-2014	10.2	3
71	A computationally engineered RAS rheostat reveals RAS-ERK signaling dynamics. *Nature Chemical Biology*, **2017**, 13, 119-126	11.7	15
70	At the crossroads of autophagy and infection: Noncanonical roles for ATG proteins in viral replication. *Journal of Cell Biology*, **2016**, 214, 503-5	7.3	5
69	Beige Adipocyte Maintenance Is Regulated by Autophagy-Induced Mitochondrial Clearance. *Cell Metabolism*, **2016**, 24, 402-419	24.6	191
68	Triggering Selective Autophagy at the Right Place and the Right Time. *Molecular Cell*, **2016**, 64, 215-216	17.6	2

67	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
66	NBR1 enables autophagy-dependent focal adhesion turnover. *Journal of Cell Biology*, **2016**, 212, 577-90	7.3	96
65	Antitumor adaptive immunity remains intact following inhibition of autophagy and antimalarial treatment. *Journal of Clinical Investigation*, **2016**, 126, 4417-4429	15.9	52
64	Autophagy in adhesion and migration. *Journal of Cell Science*, **2016**, 129, 3685-3693	5.3	62
63	NBR1-dependent selective autophagy is required for efficient cell-matrix adhesion site disassembly. *Autophagy*, **2016**, 12, 1958-1959	10.2	9
62	Autophagy in malignant transformation and cancer progression. *EMBO Journal*, **2015**, 34, 856-80	13	801
61	Autophagy at the crossroads of catabolism and anabolism. *Nature Reviews Molecular Cell Biology*, **2015**, 16, 461-72	48.7	602
60	Autophagy-independent senescence and genome instability driven by targeted telomere dysfunction. *Autophagy*, **2015**, 11, 527-37	10.2	16
59	Ironing out VPS34 inhibition. *Nature Cell Biology*, **2015**, 17, 1-3	23.4	29
58	Cellular and metabolic functions for autophagy in cancer cells. *Trends in Cell Biology*, **2015**, 25, 37-45	18.3	178
57	ATG12-ATG3 connects basal autophagy and late endosome function. *Autophagy*, **2015**, 11, 961-2	10.2	29
56	Unique role for ATG5 in neutrophil-mediated immunopathology during M. tuberculosis infection. *Nature*, **2015**, 528, 565-9	50.4	231
55	Autophagy Devours the Nuclear Lamina to Thwart Oncogenic Stress. *Developmental Cell*, **2015**, 35, 529-530	10.2	2
54	A nuclear option that initiates autophagy. *Molecular Cell*, **2015**, 57, 393-5	17.6	3
53	ATG12-ATG3 interacts with Alix to promote basal autophagic flux and late endosome function. *Nature Cell Biology*, **2015**, 17, 300-10	23.4	165
52	Loss of Atg12, but not Atg5, in pro-opiomelanocortin neurons exacerbates diet-induced obesity. *Autophagy*, **2015**, 11, 145-54	10.2	62
51	Autophagy-dependent production of secreted factors facilitates oncogenic RAS-driven invasion. *Cancer Discovery*, **2014**, 4, 466-79	24.4	184
50	Doubling downTon the autophagy pathway to suppress tumor growth. *Genes and Development*, **2014**, 28, 1137-9	12.6	7

49	Autophagy and cancer metabolism. *Methods in Enzymology*, **2014**, 542, 25-57	1.7	80
48	Ubiquitination and proteasomal degradation of ATG12 regulates its proapoptotic activity. *Autophagy*, **2014**, 10, 2269-78	10.2	36
47	Mouse models address key concerns regarding autophagy inhibition in cancer therapy. *Cancer Discovery*, **2014**, 4, 873-5	24.4	20
46	Autophagy as a stress-response and quality-control mechanism: implications for cell injury and human disease. *Annual Review of Pathology: Mechanisms of Disease*, **2013**, 8, 105-37	34	364
45	FOXO3A directs a protective autophagy program in haematopoietic stem cells. *Nature*, **2013**, 494, 323-7	50.4	430
44	IB kinase complex (IKK) triggers detachment-induced autophagy in mammary epithelial cells independently of the PI3K-AKT-MTORC1 pathway. *Autophagy*, **2013**, 9, 1214-27	10.2	47
43	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
42	Clinical utility of LC3 and p62 immunohistochemistry in diagnosis of drug-induced autophagic vacuolar myopathies: a case-control study. *PLoS ONE*, **2012**, 7, e36221	3.7	57
41	Cyclic AMP regulates formation of mammary epithelial acini in vitro. *Molecular Biology of the Cell*, **2012**, 23, 2973-81	3.5	16
40	Targeting chaperone-mediated autophagy in cancer. *Science Translational Medicine*, **2011**, 3, 109ps45	17.5	12
39	The multifaceted roles of autophagy in tumors-implications for breast cancer. *Journal of Mammary Gland Biology and Neoplasia*, **2011**, 16, 173-87	2.4	53
38	Autophagy suppression promotes apoptotic cell death in response to inhibition of the PI3K-mTOR pathway in pancreatic adenocarcinoma. *Journal of Molecular Medicine*, **2011**, 89, 877-89	5.5	83
37	ATG12-ATG3 and mitochondria. *Autophagy*, **2011**, 7, 109-11	10.2	16
36	PERK integrates autophagy and oxidative stress responses to promote survival during extracellular matrix detachment. *Molecular and Cellular Biology*, **2011**, 31, 3616-29	4.8	201
35	Autophagy facilitates glycolysis during Ras-mediated oncogenic transformation. *Molecular Biology of the Cell*, **2011**, 22, 165-78	3.5	361
34	Ras, autophagy and glycolysis. *Cell Cycle*, **2011**, 10, 1516-7	4.7	14
33	A comprehensive glossary of autophagy-related molecules and processes (2nd edition). *Autophagy*, **2011**, 7, 1273-94	10.2	205
32	Autophagy inhibition and antimalarials promote cell death in gastrointestinal stromal tumor (GIST). *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 14333-8	11.5	165

31	Therapeutic implications of autophagy-mediated cell survival in gastrointestinal stromal tumor after treatment with imatinib mesylate. *Autophagy*, **2010**, 6, 1190-1	10.2	19
30	Inhibition of mTOR by rapamycin abolishes cognitive deficits and reduces amyloid-beta levels in a mouse model of Alzheimer's disease. *PLoS ONE*, **2010**, 5, e9979	3.7	715
29	ATG12 conjugation to ATG3 regulates mitochondrial homeostasis and cell death. *Cell*, **2010**, 142, 590-600	96.2	207
28	Akt and autophagy cooperate to promote survival of drug-resistant glioma. *Science Signaling*, **2010**, 3, ra81	8.8	225
27	Autophagy and tumorigenesis. *Seminars in Immunopathology*, **2010**, 32, 383-96	12	100
26	Autophagy and metastasis: another double-edged sword. *Current Opinion in Cell Biology*, **2010**, 22, 241-9	9	227
25	Autophagy and tumorigenesis. *FEBS Letters*, **2010**, 584, 1427-35	3.8	167
24	Ubiquilins accelerate autophagosome maturation and promote cell survival during nutrient starvation. *Autophagy*, **2009**, 5, 573-5	10.2	19
23	Computational investigation of epithelial cell dynamic phenotype in vitro. *Theoretical Biology and Medical Modelling*, **2009**, 6, 8	2.3	14
22	PLIC proteins or ubiquilins regulate autophagy-dependent cell survival during nutrient starvation. *EMBO Reports*, **2009**, 10, 173-9	6.5	226
21	Detachment-induced autophagy in three-dimensional epithelial cell cultures. *Methods in Enzymology*, **2009**, 452, 423-39	1.7	12
20	A computational approach to resolve cell level contributions to early glandular epithelial cancer progression. *BMC Systems Biology*, **2009**, 3, 122	3.5	23
19	Extracellular matrix regulation of autophagy. *Current Opinion in Cell Biology*, **2008**, 20, 583-8	9	122
18	Modeling morphogenesis and oncogenesis in three-dimensional breast epithelial cultures. *Annual Review of Pathology: Mechanisms of Disease*, **2008**, 3, 313-39	34	106
17	Induction of autophagy during extracellular matrix detachment promotes cell survival. *Molecular Biology of the Cell*, **2008**, 19, 797-806	3.5	433
16	Detachment-induced autophagy during anoikis and lumen formation in epithelial acini. *Autophagy*, **2008**, 4, 351-3	10.2	59
15	The Dual Roles for Autophagy in Cell Death and Survival **2006**, 105-126		
14	Does autophagy contribute to cell death?. *Autophagy*, **2005**, 1, 66-74	10.2	369

13	Modelling glandular epithelial cancers in three-dimensional cultures. *Nature Reviews Cancer*, **2005**, 5, 675-88	31.3	824
12	Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) is required for induction of autophagy during lumen formation in vitro. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 3438-43	11.5	212
11	Autocrine CSF-1R activation promotes Src-dependent disruption of mammary epithelial architecture. *Journal of Cell Biology*, **2004**, 165, 263-73	7.3	88
10	Akt activation disrupts mammary acinar architecture and enhances proliferation in an mTOR-dependent manner. *Journal of Cell Biology*, **2003**, 163, 315-26	7.3	124
9	Integrins and EGFR coordinately regulate the pro-apoptotic protein Bim to prevent anoikis. *Nature Cell Biology*, **2003**, 5, 733-40	23.4	431
8	Morphogenesis and oncogenesis of MCF-10A mammary epithelial acini grown in three-dimensional basement membrane cultures. *Methods*, **2003**, 30, 256-68	4.6	1507
7	The role of apoptosis in creating and maintaining luminal space within normal and oncogene-expressing mammary acini. *Cell*, **2002**, 111, 29-40	56.2	637
6	Requirements for activation and RAFT localization of the T-lymphocyte kinase Rlk/Txk. *BMC Immunology*, **2001**, 2, 3	3.7	36
5	Tec family kinases modulate thresholds for thymocyte development and selection. *Journal of Experimental Medicine*, **2000**, 192, 987-1000	16.6	116
4	Requirement for Tec kinases Rlk and Itk in T cell receptor signaling and immunity. *Science*, **1999**, 284, 638-41	33.3	334
3	HPLC-based method for determination of absolute configuration of alpha-chiral amines. *Analytical Chemistry*, **1993**, 65, 1456-61	7.8	6
2	Activation of an adrenergic pro-drug through sequential stereoselective action of tandem target enzymes. *Biochemical and Biophysical Research Communications*, **1992**, 189, 33-9	3.4	3
1	Autophagy cargo receptors are secreted via extracellular vesicles and particles in response to endolysosomal inhibition or impaired autophagosome maturation		2