Sascha Martens

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.

62 papers	9,792 citations	33 h-index	97 g-index
97 ext. papers	11,623 ext. citations	12.2 avg, IF	6.1 L-index

#	Paper	IF	Citations
62	Mechanism of Atg9 recruitment by Atg11 in the cytoplasm-to-vacuole targeting pathway.. *Journal of Biological Chemistry*, **2022**, 101573	5.4	2
61	Multiple weak interactions through intrinsically disordered regions mediate the recruitment of Atg9 vesicles by Atg11 to the PAS **2022**, 1, 161-164		
60	Reconstitution of cargo-induced LC3 lipidation in mammalian selective autophagy. *Science Advances*, **2021**, 7,	14.3	14
59	Reconstitution defines the roles of p62, NBR1 and TAX1BP1 in ubiquitin condensate formation and autophagy initiation. *Nature Communications*, **2021**, 12, 5212	17.4	18
58	A mathematical model of p62-ubiquitin aggregates in autophagy.. *Journal of Mathematical Biology*, **2021**, 84, 3	2	1
57	Activation and targeting of ATG8 protein lipidation. *Cell Discovery*, **2020**, 6, 23	22.3	38
56	A Conserved LIR Motif in Connexins Mediates Ubiquitin-Independent Binding to LC3/GABARAP Proteins. *Cells*, **2020**, 9,	7.9	3
55	A cross-kingdom conserved ER-phagy receptor maintains endoplasmic reticulum homeostasis during stress. *ELife*, **2020**, 9,	8.9	48
54	A PI3K-WIPI2 positive feedback loop allosterically activates LC3 lipidation in autophagy. *Journal of Cell Biology*, **2020**, 219,	7.3	22
53	Out of Phase: How IPMK Inhibits TFEB. *Developmental Cell*, **2020**, 55, 517-519	10.2	1
52	Reconstitution of autophagosome nucleation defines Atg9 vesicles as seeds for membrane formation. *Science*, **2020**, 369,	33.3	55
51	Recruitment and Activation of the ULK1/Atg1 Kinase Complex in Selective Autophagy. *Journal of Molecular Biology*, **2020**, 432, 123-134	6.5	49
50	How RB1CC1/FIP200 claws its way to autophagic engulfment of SQSTM1/p62-ubiquitin condensates. *Autophagy*, **2019**, 15, 1475-1477	10.2	6
49	FIP200 Claw Domain Binding to p62 Promotes Autophagosome Formation at Ubiquitin Condensates. *Molecular Cell*, **2019**, 74, 330-346.e11	17.6	137
48	Intrinsic lipid binding activity of ATG16L1 supports efficient membrane anchoring and autophagy. *EMBO Journal*, **2019**, 38,	13	45
47	Studies of Receptor-Atg8 Interactions During Selective Autophagy. *Methods in Molecular Biology*, **2019**, 1880, 189-196	1.4	1
46	Sorting out "non-canonical" autophagy. *EMBO Journal*, **2018**, 37,	13	4

45	p62 filaments capture and present ubiquitinated cargos for autophagy. *EMBO Journal*, **2018**, 37,	13	153
44	A division of labor in mTORC1 signaling and autophagy. *Science Signaling*, **2018**, 11,	8.8	10
43	p62-mediated phase separation at the intersection of the ubiquitin-proteasome system and autophagy. *Journal of Cell Science*, **2018**, 131,	5.3	62
42	Phasing out the bad-How SQSTM1/p62 sequesters ubiquitinated proteins for degradation by autophagy. *Autophagy*, **2018**, 14, 1280-1282	10.2	13
41	Beyond Atg8 binding: The role of AIM/LIR motifs in autophagy. *Autophagy*, **2017**, 13, 978-979	10.2	20
40	Molecular definitions of autophagy and related processes. *EMBO Journal*, **2017**, 36, 1811-1836	13	857
39	Conserved Atg8 recognition sites mediate Atg4 association with autophagosomal membranes and Atg8 deconjugation. *EMBO Reports*, **2017**, 18, 765-780	6.5	41
38	Atg4 proteolytic activity can be inhibited by Atg1 phosphorylation. *Nature Communications*, **2017**, 8, 295	17.4	43
37	No ATG8s, no problem? How LC3/GABARAP proteins contribute to autophagy. *Journal of Cell Biology*, **2016**, 215, 761-763	7.3	17
36	Insights into autophagosome biogenesis from in vitro reconstitutions. *Journal of Structural Biology*, **2016**, 196, 29-36	3.4	11
35	Accessory Interaction Motifs in the Atg19 Cargo Receptor Enable Strong Binding to the Clustered Ubiquitin-related Atg8 Protein. *Journal of Biological Chemistry*, **2016**, 291, 18799-808	5.4	13
34	Phospholipids in Autophagosome Formation and Fusion. *Journal of Molecular Biology*, **2016**,	6.5	19
33	Loss of the interferon-□nducible regulatory immunity-related GTPase (IRG), Irgm1, causes activation of effector IRG proteins on lysosomes, damaging lysosomal function and predicting the dramatic susceptibility of Irgm1-deficient mice to infection. *BMC Biology*, **2016**, 14, 33	7.3	30
32	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
31	Mechanisms of Selective Autophagy. *Journal of Molecular Biology*, **2016**, 428, 1714-24	6.5	327
30	Mechanism of cargo-directed Atg8 conjugation during selective autophagy. *ELife*, **2016**, 5,	8.9	46
29	Phosphorylation of OPTN by TBK1 enhances its binding to Ub chains and promotes selective autophagy of damaged mitochondria. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 4039-44	11.5	407
28	Necessary, but also Sufficient?. *Trends in Cell Biology*, **2016**, 26, 467-469	18.3	

27	In vitro systems for Atg8 lipidation. *Methods*, **2015**, 75, 37-43	4.6	12
26	How cells coordinate waste removal through their major proteolytic pathways. *Nature Cell Biology*, **2015**, 17, 841-2	23.4	6
25	Oligomerization of p62 allows for selection of ubiquitinated cargo and isolation membrane during selective autophagy. *ELife*, **2015**, 4, e08941	8.9	143
24	Hrr25 kinase promotes selective autophagy by phosphorylating the cargo receptor Atg19. *EMBO Reports*, **2014**, 15, 862-70	6.5	66
23	Cargo binding to Atg19 unmasks additional Atg8 binding sites to mediate membrane-cargo apposition during selective autophagy. *Nature Cell Biology*, **2014**, 16, 425-433	23.4	78
22	Dissecting the role of the Atg12-Atg5-Atg16 complex during autophagosome formation. *Autophagy* , **2013**, 9, 424-5	10.2	153
21	Mechanisms and regulation of autophagosome formation. *Current Opinion in Cell Biology*, **2012**, 24, 496-501	9	101
20	Mechanism and functions of membrane binding by the Atg5-Atg12/Atg16 complex during autophagosome formation. *EMBO Journal*, **2012**, 31, 4304-17	13	285
19	The activation mechanism of Irga6, an interferon-inducible GTPase contributing to mouse resistance against Toxoplasma gondii. *BMC Biology*, **2011**, 9, 7	7.3	25
18	C2 domains and membrane fusion. *Current Topics in Membranes*, **2011**, 68, 141-59	2.2	8
17	Forming giant vesicles with controlled membrane composition, asymmetry, and contents. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 9431-6	11.5	158
16	HIV-1 Nef membrane association depends on charge, curvature, composition and sequence. *Nature Chemical Biology*, **2010**, 6, 46-53	11.7	77
15	Localisation and mislocalisation of the interferon-inducible immunity-related GTPase, Irgm1 (LRG-47) in mouse cells. *PLoS ONE*, **2010**, 5, e8648	3.7	22
14	Membrane curvature in synaptic vesicle fusion and beyond. *Cell*, **2010**, 140, 601-5	56.2	160
13	Doc2b is a high-affinity Ca2+ sensor for spontaneous neurotransmitter release. *Science*, **2010**, 327, 1614-8	33.3	229
12	Role of C2 domain proteins during synaptic vesicle exocytosis. *Biochemical Society Transactions*, **2010**, 38, 213-6	5.1	21
11	Regulatory interactions between IRG resistance GTPases in the cellular response to Toxoplasma gondii. *EMBO Journal*, **2008**, 27, 2495-509	13	122
10	Mechanisms of membrane fusion: disparate players and common principles. *Nature Reviews Molecular Cell Biology*, **2008**, 9, 543-56	48.7	495

9	Synaptotagmin-1 utilizes membrane bending and SNARE binding to drive fusion pore expansion. *Molecular Biology of the Cell*, **2008**, 19, 5093-103	3.5	98
8	Architectural and mechanistic insights into an EHD ATPase involved in membrane remodelling. *Nature*, **2007**, 449, 923-7	50.4	246
7	How synaptotagmin promotes membrane fusion. *Science*, **2007**, 316, 1205-8	33.3	417
6	The interferon-inducible GTPases. *Annual Review of Cell and Developmental Biology*, **2006**, 22, 559-89	12.6	127
5	Disruption of Toxoplasma gondii parasitophorous vacuoles by the mouse p47-resistance GTPases. *PLoS Pathogens*, **2005**, 1, e24	7.6	273
4	Mechanisms regulating the positioning of mouse p47 resistance GTPases LRG-47 and IIGP1 on cellular membranes: retargeting to plasma membrane induced by phagocytosis. *Journal of Immunology*, **2004**, 173, 2594-606	5.3	98
3	A PI3K-WIPI2 positive feedback loop allosterically activates LC3 lipidation in autophagy		1
2	FIP200 organizes the autophagy machinery at p62-ubiquitin condensates beyond activation of the ULK1 kinase		2
1	Reconstitution of cargo-induced LC3 lipidation in mammalian selective autophagy		2