

# Sascha Martens

## List of Publications by Citations

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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	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
61	Molecular definitions of autophagy and related processes. <i>EMBO Journal</i> , <b>2017</b> , 36, 1811-1836	13	857
60	Mechanisms of membrane fusion: disparate players and common principles. <i>Nature Reviews Molecular Cell Biology</i> , <b>2008</b> , 9, 543-56	48.7	495
59	How synaptotagmin promotes membrane fusion. <i>Science</i> , <b>2007</b> , 316, 1205-8	33.3	417
58	Phosphorylation of OPTN by TBK1 enhances its binding to Ub chains and promotes selective autophagy of damaged mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 4039-44	11.5	407
57	Mechanisms of Selective Autophagy. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 1714-24	6.5	327
56	Mechanism and functions of membrane binding by the Atg5-Atg12/Atg16 complex during autophagosome formation. <i>EMBO Journal</i> , <b>2012</b> , 31, 4304-17	13	285
55	Disruption of <i>Toxoplasma gondii</i> parasitophorous vacuoles by the mouse p47-resistance GTPases. <i>PLoS Pathogens</i> , <b>2005</b> , 1, e24	7.6	273
54	Architectural and mechanistic insights into an EHD ATPase involved in membrane remodelling. <i>Nature</i> , <b>2007</b> , 449, 923-7	50.4	246
53	Doc2b is a high-affinity Ca <sup>2+</sup> sensor for spontaneous neurotransmitter release. <i>Science</i> , <b>2010</b> , 327, 1614-8	39.3	229
52	Membrane curvature in synaptic vesicle fusion and beyond. <i>Cell</i> , <b>2010</b> , 140, 601-5	56.2	160
51	Forming giant vesicles with controlled membrane composition, asymmetry, and contents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 9431-6	11.5	158
50	p62 filaments capture and present ubiquitinated cargos for autophagy. <i>EMBO Journal</i> , <b>2018</b> , 37,	13	153
49	Dissecting the role of the Atg12-Atg5-Atg16 complex during autophagosome formation. <i>Autophagy</i> , <b>2013</b> , 9, 424-5	10.2	153
48	Oligomerization of p62 allows for selection of ubiquitinated cargo and isolation membrane during selective autophagy. <i>ELife</i> , <b>2015</b> , 4, e08941	8.9	143
47	FIP200 Claw Domain Binding to p62 Promotes Autophagosome Formation at Ubiquitin Condensates. <i>Molecular Cell</i> , <b>2019</b> , 74, 330-346.e11	17.6	137
46	The interferon-inducible GTPases. <i>Annual Review of Cell and Developmental Biology</i> , <b>2006</b> , 22, 559-89	12.6	127

45	Regulatory interactions between IRG resistance GTPases in the cellular response to <i>Toxoplasma gondii</i> . <i>EMBO Journal</i> , <b>2008</b> , 27, 2495-509	13	122
44	Mechanisms and regulation of autophagosome formation. <i>Current Opinion in Cell Biology</i> , <b>2012</b> , 24, 496-501		101
43	Synaptotagmin-1 utilizes membrane bending and SNARE binding to drive fusion pore expansion. <i>Molecular Biology of the Cell</i> , <b>2008</b> , 19, 5093-103	3.5	98
42	Mechanisms regulating the positioning of mouse p47 resistance GTPases LRG-47 and IIGP1 on cellular membranes: retargeting to plasma membrane induced by phagocytosis. <i>Journal of Immunology</i> , <b>2004</b> , 173, 2594-606	5.3	98
41	Cargo binding to Atg19 unmasks additional Atg8 binding sites to mediate membrane-cargo apposition during selective autophagy. <i>Nature Cell Biology</i> , <b>2014</b> , 16, 425-433	23.4	78
40	HIV-1 Nef membrane association depends on charge, curvature, composition and sequence. <i>Nature Chemical Biology</i> , <b>2010</b> , 6, 46-53	11.7	77
39	Hrr25 kinase promotes selective autophagy by phosphorylating the cargo receptor Atg19. <i>EMBO Reports</i> , <b>2014</b> , 15, 862-70	6.5	66
38	p62-mediated phase separation at the intersection of the ubiquitin-proteasome system and autophagy. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	62
37	Reconstitution of autophagosome nucleation defines Atg9 vesicles as seeds for membrane formation. <i>Science</i> , <b>2020</b> , 369,	33.3	55
36	Recruitment and Activation of the ULK1/Atg1 Kinase Complex in Selective Autophagy. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 123-134	6.5	49
35	A cross-kingdom conserved ER-phagy receptor maintains endoplasmic reticulum homeostasis during stress. <i>ELife</i> , <b>2020</b> , 9,	8.9	48
34	Mechanism of cargo-directed Atg8 conjugation during selective autophagy. <i>ELife</i> , <b>2016</b> , 5,	8.9	46
33	Intrinsic lipid binding activity of ATG16L1 supports efficient membrane anchoring and autophagy. <i>EMBO Journal</i> , <b>2019</b> , 38,	13	45
32	Atg4 proteolytic activity can be inhibited by Atg1 phosphorylation. <i>Nature Communications</i> , <b>2017</b> , 8, 29517.4	17.4	43
31	Conserved Atg8 recognition sites mediate Atg4 association with autophagosomal membranes and Atg8 deconjugation. <i>EMBO Reports</i> , <b>2017</b> , 18, 765-780	6.5	41
30	Activation and targeting of ATG8 protein lipidation. <i>Cell Discovery</i> , <b>2020</b> , 6, 23	22.3	38
29	Loss of the interferon-Inducible regulatory immunity-related GTPase (IRG), <i>Irgm1</i> , causes activation of effector IRG proteins on lysosomes, damaging lysosomal function and predicting the dramatic susceptibility of <i>Irgm1</i> -deficient mice to infection. <i>BMC Biology</i> , <b>2016</b> , 14, 33	7.3	30
28	The activation mechanism of <i>Irga6</i> , an interferon-inducible GTPase contributing to mouse resistance against <i>Toxoplasma gondii</i> . <i>BMC Biology</i> , <b>2011</b> , 9, 7	7.3	25

27	Localisation and mislocalisation of the interferon-inducible immunity-related GTPase, Irgm1 (LRG-47) in mouse cells. <i>PLoS ONE</i> , <b>2010</b> , 5, e8648	3.7	22
26	A PI3K-WIP1 positive feedback loop allosterically activates LC3 lipidation in autophagy. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	22
25	Role of C2 domain proteins during synaptic vesicle exocytosis. <i>Biochemical Society Transactions</i> , <b>2010</b> , 38, 213-6	5.1	21
24	Beyond Atg8 binding: The role of AIM/LIR motifs in autophagy. <i>Autophagy</i> , <b>2017</b> , 13, 978-979	10.2	20
23	Phospholipids in Autophagosome Formation and Fusion. <i>Journal of Molecular Biology</i> , <b>2016</b> ,	6.5	19
22	Reconstitution defines the roles of p62, NBR1 and TAX1BP1 in ubiquitin condensate formation and autophagy initiation. <i>Nature Communications</i> , <b>2021</b> , 12, 5212	17.4	18
21	No ATG8s, no problem? How LC3/GABARAP proteins contribute to autophagy. <i>Journal of Cell Biology</i> , <b>2016</b> , 215, 761-763	7.3	17
20	Reconstitution of cargo-induced LC3 lipidation in mammalian selective autophagy. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	14
19	Accessory Interaction Motifs in the Atg19 Cargo Receptor Enable Strong Binding to the Clustered Ubiquitin-related Atg8 Protein. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 18799-808	5.4	13
18	Phasing out the bad-How SQSTM1/p62 sequesters ubiquitinated proteins for degradation by autophagy. <i>Autophagy</i> , <b>2018</b> , 14, 1280-1282	10.2	13
17	In vitro systems for Atg8 lipidation. <i>Methods</i> , <b>2015</b> , 75, 37-43	4.6	12
16	Insights into autophagosome biogenesis from in vitro reconstitutions. <i>Journal of Structural Biology</i> , <b>2016</b> , 196, 29-36	3.4	11
15	A division of labor in mTORC1 signaling and autophagy. <i>Science Signaling</i> , <b>2018</b> , 11,	8.8	10
14	C2 domains and membrane fusion. <i>Current Topics in Membranes</i> , <b>2011</b> , 68, 141-59	2.2	8
13	How RB1CC1/FIP200 claws its way to autophagic engulfment of SQSTM1/p62-ubiquitin condensates. <i>Autophagy</i> , <b>2019</b> , 15, 1475-1477	10.2	6
12	How cells coordinate waste removal through their major proteolytic pathways. <i>Nature Cell Biology</i> , <b>2015</b> , 17, 841-2	23.4	6
11	Sorting out "non-canonical" autophagy. <i>EMBO Journal</i> , <b>2018</b> , 37,	13	4
10	A Conserved LIR Motif in Connexins Mediates Ubiquitin-Independent Binding to LC3/GABARAP Proteins. <i>Cells</i> , <b>2020</b> , 9,	7.9	3

9	Mechanism of Atg9 recruitment by Atg11 in the cytoplasm-to-vacuole targeting pathway.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101573	5.4	2
8	FIP200 organizes the autophagy machinery at p62-ubiquitin condensates beyond activation of the ULK1 kinase		2
7	Reconstitution of cargo-induced LC3 lipidation in mammalian selective autophagy		2
6	A PI3K-WIP1 positive feedback loop allosterically activates LC3 lipidation in autophagy		1
5	Out of Phase: How IPMK Inhibits TFEB. <i>Developmental Cell</i> , <b>2020</b> , 55, 517-519	10.2	1
4	Studies of Receptor-Atg8 Interactions During Selective Autophagy. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1880, 189-196	1.4	1
3	A mathematical model of p62-ubiquitin aggregates in autophagy.. <i>Journal of Mathematical Biology</i> , <b>2021</b> , 84, 3	2	1
2	Necessary, but also Sufficient?. <i>Trends in Cell Biology</i> , <b>2016</b> , 26, 467-469	18.3	
1	Multiple weak interactions through intrinsically disordered regions mediate the recruitment of Atg9 vesicles by Atg11 to the PAS <b>2022</b> , 1, 161-164		