

Nobuo N Noda

List of Publications by Year in descending order

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102
papers

8,953
citations

36271

51
h-index

43868

91
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110
all docs

110
docs citations

110
times ranked

10044
citing authors

#	ARTICLE	IF	CITATIONS
1	The Atg12-Atg5 Conjugate Has a Novel E3-like Activity for Protein Lipidation in Autophagy. <i>Journal of Biological Chemistry</i> , 2007, 282, 37298-37302.	1.6	950
2	Atg8 family interacting motif crucial for selective autophagy. <i>FEBS Letters</i> , 2010, 584, 1379-1385.	1.3	473
3	Structural basis of target recognition by Atg8/LC3 during selective autophagy. <i>Genes To Cells</i> , 2008, 13, 1211-1218.	0.5	349
4	The structure of Atg4B-LC3 complex reveals the mechanism of LC3 processing and delipidation during autophagy. <i>EMBO Journal</i> , 2009, 28, 1341-1350.	3.5	329
5	Atg2 mediates direct lipid transfer between membranes for autophagosome formation. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 281-288.	3.6	312
6	Mechanisms of Autophagy. <i>Annual Review of Biophysics</i> , 2015, 44, 101-122.	4.5	297
7	Phase separation organizes the site of autophagosome formation. <i>Nature</i> , 2020, 578, 301-305.	13.7	263
8	Atg9 is a lipid scramblase that mediates autophagosomal membrane expansion. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 1185-1193.	3.6	253
9	Structure of Atg5-Atg16, a Complex Essential for Autophagy. <i>Journal of Biological Chemistry</i> , 2007, 282, 6763-6772.	1.6	203
10	The Crystal Structure of DJ-1, a Protein Related to Male Fertility and Parkinson's Disease. <i>Journal of Biological Chemistry</i> , 2003, 278, 31380-31384.	1.6	201
11	Tor2 Directly Phosphorylates the AGC Kinase Ypk2 To Regulate Actin Polarization. <i>Molecular and Cellular Biology</i> , 2005, 25, 7239-7248.	1.1	198
12	Structural basis of starvation-induced assembly of the autophagy initiation complex. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 513-521.	3.6	180
13	The Intrinsically Disordered Protein Atg13 Mediates Supramolecular Assembly of Autophagy Initiation Complexes. <i>Developmental Cell</i> , 2016, 38, 86-99.	3.1	161
14	The crystal structure of microtubule-associated protein light chain 3, a mammalian homologue of <i>Saccharomyces cerevisiae</i> Atg8. <i>Genes To Cells</i> , 2004, 9, 611-618.	0.5	158
15	Structural Basis of Atg8 Activation by a Homodimeric E1, Atg7. <i>Molecular Cell</i> , 2011, 44, 462-475.	4.5	156
16	X-ray crystal structure of IRF-3 and its functional implications. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 922-927.	3.6	142
17	Tertiary Structure-Function Analysis Reveals the Pathogenic Signaling Potentiation Mechanism of <i>Helicobacter pylori</i> Oncogenic Effector CagA. <i>Cell Host and Microbe</i> , 2012, 12, 20-33.	5.1	139
18	p62/SQSTM1-droplet serves as a platform for autophagosome formation and anti-oxidative stress response. <i>Nature Communications</i> , 2021, 12, 16.	5.8	137

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19	Structure of the Atg12-Atg5 conjugate reveals a platform for stimulating Atg8-PE conjugation. <i>EMBO Reports</i> , 2013, 14, 206-211.	2.0	131
20	Atg12-Atg5 conjugate enhances E2 activity of Atg3 by rearranging its catalytic site. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 433-439.	3.6	131
21	Structural Basis for the Specificity and Catalysis of Human Atg4B Responsible for Mammalian Autophagy. <i>Journal of Biological Chemistry</i> , 2005, 280, 40058-40065.	1.6	121
22	The Crystal Structure of Atg3, an Autophagy-related Ubiquitin Carrier Protein (E2) Enzyme that Mediates Atg8 Lipidation. <i>Journal of Biological Chemistry</i> , 2007, 282, 8036-8043.	1.6	121
23	Autophagy-related Protein 32 Acts as Autophagic Degron and Directly Initiates Mitophagy. <i>Journal of Biological Chemistry</i> , 2012, 287, 10631-10638.	1.6	120
24	Autophagy-regulating protease Atg4: structure, function, regulation and inhibition. <i>Journal of Antibiotics</i> , 2018, 71, 72-78.	1.0	119
25	Structural biology of the core autophagy machinery. <i>Current Opinion in Structural Biology</i> , 2017, 43, 10-17.	2.6	118
26	Liquidity Is a Critical Determinant for Selective Autophagy of Protein Condensates. <i>Molecular Cell</i> , 2020, 77, 1163-1175.e9.	4.5	118
27	Dimeric Coiled-coil Structure of <i>Saccharomyces cerevisiae</i> Atg16 and Its Functional Significance in Autophagy. <i>Journal of Biological Chemistry</i> , 2010, 285, 1508-1515.	1.6	114
28	Endosomal Rab cycles regulate Parkin-mediated mitophagy. <i>ELife</i> , 2018, 7, .	2.8	113
29	Structure-based Analyses Reveal Distinct Binding Sites for Atg2 and Phosphoinositides in Atg18. <i>Journal of Biological Chemistry</i> , 2012, 287, 31681-31690.	1.6	112
30	Autophagy-related Protein 8 (Atg8) Family Interacting Motif in Atg3 Mediates the Atg3-Atg8 Interaction and Is Crucial for the Cytoplasm-to-Vacuole Targeting Pathway. <i>Journal of Biological Chemistry</i> , 2010, 285, 29599-29607.	1.6	105
31	The Crystal Structure of Plant ATG12 and its Biological Implication in Autophagy. <i>Autophagy</i> , 2005, 1, 119-126.	4.3	104
32	Atg1 family kinases in autophagy initiation. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 3083-3096.	2.4	104
33	In Vitro Reconstitution of Plant Atg8 and Atg12 Conjugation Systems Essential for Autophagy. <i>Journal of Biological Chemistry</i> , 2008, 283, 1921-1928.	1.6	103
34	Characterization of the Atg17-Atg29-Atg31 complex specifically required for starvation-induced autophagy in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 612-615.	1.0	101
35	The Autophagy-related Protein Kinase Atg1 Interacts with the Ubiquitin-like Protein Atg8 via the Atg8 Family Interacting Motif to Facilitate Autophagosome Formation. <i>Journal of Biological Chemistry</i> , 2012, 287, 28503-28507.	1.6	99
36	Liquid-liquid phase separation in autophagy. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	99

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37	Structure of the Atg101-Atg13 complex reveals essential roles of Atg101 in autophagy initiation. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 572-580.	3.6	94
38	Structural Basis for the Antiproliferative Activity of the Tob-hCaf1 Complex. <i>Journal of Biological Chemistry</i> , 2009, 284, 13244-13255.	1.6	85
39	Autoinhibition and phosphorylation-induced activation mechanisms of human cancer and autoimmune disease-related E3 protein Cbl-b. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20579-20584.	3.3	83
40	Structural Basis of the Differential Function of the Two <i>C.Âlegans</i> Atg8 Homologs, LGG-1 and LGG-2, in Autophagy. <i>Molecular Cell</i> , 2015, 60, 914-929.	4.5	77
41	Structural Basis for the Specificity, Catalysis, and Regulation of Human Uridine-Cytidine Kinase. <i>Structure</i> , 2004, 12, 751-764.	1.6	71
42	Structure of a Cell Polarity Regulator, a Complex between Atypical PKC and Par6 PB1 Domains. <i>Journal of Biological Chemistry</i> , 2005, 280, 9653-9661.	1.6	71
43	Structural and dynamics analysis of intrinsically disordered proteins by high-speed atomic force microscopy. <i>Nature Nanotechnology</i> , 2021, 16, 181-189.	15.6	69
44	ATG Systems from the Protein Structural Point of View. <i>Chemical Reviews</i> , 2009, 109, 1587-1598.	23.0	66
45	A molecular mechanism for autoinhibition of the tandem SH3 domains of p47phox, the regulatory subunit of the phagocyte NADPH oxidase. <i>Genes To Cells</i> , 2004, 9, 443-456.	0.5	63
46	Structure of the Novel C-terminal Domain of Vacuolar Protein Sorting 30/Autophagy-related Protein 6 and Its Specific Role in Autophagy. <i>Journal of Biological Chemistry</i> , 2012, 287, 16256-16266.	1.6	61
47	Structural Insights into Atg10-Mediated Formation of the Autophagy-Essential Atg12-Atg5 Conjugate. <i>Structure</i> , 2012, 20, 1244-1254.	1.6	61
48	Full-length p40phox structure suggests a basis for regulation mechanism of its membrane binding. <i>EMBO Journal</i> , 2007, 26, 1176-1186.	3.5	60
49	Noncanonical recognition and UBL loading of distinct E2s by autophagy-essential Atg7. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 1250-1256.	3.6	59
50	Ser386 phosphorylation of transcription factor IRF3 induces dimerization and association with CBP/p300 without overall conformational change. <i>Genes To Cells</i> , 2010, 15, 901-910.	0.5	55
51	Super-assembly of ER-phagy receptor Atg40 induces local ER remodeling at contacts with forming autophagosomal membranes. <i>Nature Communications</i> , 2020, 11, 3306.	5.8	54
52	Human ATG2B possesses a lipid transfer activity which is accelerated by negatively charged lipids and WIPI4. <i>Genes To Cells</i> , 2020, 25, 65-70.	0.5	53
53	Solution Structure of the Tandem Src Homology 3 Domains of p47 in an Autoinhibited Form. <i>Journal of Biological Chemistry</i> , 2004, 279, 29752-29760.	1.6	51
54	Membrane perturbation by lipidated Atg8 underlies autophagosome biogenesis. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 583-593.	3.6	51

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55	The NMR structure of the autophagy-related protein Atg8. <i>Journal of Biomolecular NMR</i> , 2010, 47, 237-241.	1.6	49
56	Selective Transport of β -Mannosidase by Autophagic Pathways. <i>Journal of Biological Chemistry</i> , 2010, 285, 30026-30033.	1.6	49
57	Differential Function of the Two Atg4 Homologues in the Aggrephagy Pathway in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 29457-29467.	1.6	49
58	Atg18 phosphoregulation controls organellar dynamics by modulating its phosphoinositide-binding activity. <i>Journal of Cell Biology</i> , 2013, 202, 685-698.	2.3	45
59	Atg2: A novel phospholipid transfer protein that mediates <i>de novo</i> autophagosome biogenesis. <i>Protein Science</i> , 2019, 28, 1005-1012.	3.1	44
60	Atg2 and Atg9: Intermembrane and interleaflet lipid transporters driving autophagy. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158956.	1.2	42
61	Evolution from covalent conjugation to non-covalent interaction in the ubiquitin-like ATG12 system. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 289-296.	3.6	39
62	Structural basis for the regulation of enzymatic activity of Regnase-1 by domain-domain interactions. <i>Scientific Reports</i> , 2016, 6, 22324.	1.6	38
63	Lipidation-independent vacuolar functions of Atg8 rely on its noncanonical interaction with a vacuole membrane protein. <i>ELife</i> , 2018, 7, .	2.8	34
64	Binding of FAD to Cytochrome b558 Is Facilitated during Activation of the Phagocyte NADPH Oxidase, Leading to Superoxide Production. <i>Journal of Biological Chemistry</i> , 2004, 279, 26378-26386.	1.6	33
65	Crystallographic and NMR Evidence for Flexibility in Oligosaccharyltransferases and Its Catalytic Significance. <i>Structure</i> , 2013, 21, 32-41.	1.6	28
66	Atg7 Activates an Autophagy-Essential Ubiquitin-like Protein Atg8 through Multi-Step Recognition. <i>Journal of Molecular Biology</i> , 2018, 430, 249-257.	2.0	28
67	Structural Biology of the Cvt Pathway. <i>Journal of Molecular Biology</i> , 2017, 429, 531-542.	2.0	27
68	Structural Basis for Receptor-Mediated Selective Autophagy of Aminopeptidase I Aggregates. <i>Cell Reports</i> , 2016, 16, 19-27.	2.9	26
69	A glutamine sensor that directly activates TORC1. <i>Communications Biology</i> , 2021, 4, 1093.	2.0	22
70	Biomolecular condensates in autophagy regulation. <i>Current Opinion in Cell Biology</i> , 2021, 69, 23-29.	2.6	21
71	Phosphorylation by casein kinase 2 enhances the interaction between ER α phagy receptor TEX264 and ATG8 proteins. <i>EMBO Reports</i> , 2022, 23, e54801.	2.0	20
72	Atg101: Not Just an Accessory Subunit in the Autophagy-initiation Complex. <i>Cell Structure and Function</i> , 2016, 41, 13-20.	0.5	19

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73	Biophysical characterization of Atg11, a scaffold protein essential for selective autophagy in yeast. <i>FEBS Open Bio</i> , 2018, 8, 110-116.	1.0	18
74	Two-Colored Fluorescence Correlation Spectroscopy Screening for LC3-P62 Interaction Inhibitors. <i>Journal of Biomolecular Screening</i> , 2013, 18, 1103-1109.	2.6	16
75	The Thermotolerant Yeast <i>Kluyveromyces marxianus</i> Is a Useful Organism for Structural and Biochemical Studies of Autophagy. <i>Journal of Biological Chemistry</i> , 2015, 290, 29506-29518.	1.6	16
76	Structural catalog of core Atg proteins opens new era of autophagy research. <i>Journal of Biochemistry</i> , 2021, 169, 517-525.	0.9	16
77	Proteomic Profiling of Autophagosome Cargo in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2014, 9, e91651.	1.1	15
78	Phase-separated protein droplets of amyotrophic lateral sclerosis-associated p62/SQSTM1 mutants show reduced inner fluidity. <i>Journal of Biological Chemistry</i> , 2021, 297, 101405.	1.6	13
79	Crystallization and preliminary crystallographic analysis of the autoinhibited form of the tandem SH3 domain of p47phox. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1479-1480.	2.5	12
80	Secret of Atg9: lipid scramblase activity drives de novo autophagosome biogenesis. <i>Cell Death and Differentiation</i> , 2020, 27, 3386-3388.	5.0	12
81	Crystallization and preliminary crystallographic analysis of DJ-1, a protein associated with male fertility and parkinsonism. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1502-1503.	2.5	11
82	Crystallization and preliminary X-ray analysis of LC3-I. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1464-1465.	2.5	10
83	Membrane-binding domains in autophagy. <i>Chemistry and Physics of Lipids</i> , 2019, 218, 1-9.	1.5	10
84	Qualitative differences in disease-associated MEK mutants reveal molecular signatures and aberrant signaling-crosstalk in cancer. <i>Nature Communications</i> , 2022, 13, .	5.8	10
85	Crystallization of the Atg12-Atg5 conjugate bound to Atg16 by the free-interface diffusion method. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 266-268.	1.0	8
86	Open and closed HORMAs regulate autophagy initiation. <i>Autophagy</i> , 2015, 11, 2123-2124.	4.3	7
87	Crystallization and preliminary X-ray analysis of human uridine-cytidine kinase 2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1477-1478.	2.5	6
88	Crystallization of <i>Saccharomyces cerevisiae</i> α -mannosidase, a cargo protein of the Cvt pathway. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 571-573.	0.7	6
89	Small differences make a big impact: Structural insights into the differential function of the 2 Atg8 homologs in <i>C. elegans</i> . <i>Autophagy</i> , 2016, 12, 606-607.	4.3	5
90	Crystallization of the coiled-coil domain of Atg16 essential for autophagy. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 1046-1048.	0.7	4

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91	Crystallization and preliminary crystallographic analysis of the Tobâ€“hCaf1 complex. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 1061-1063.	0.7	3
92	Atg12-Interacting Motif Is Crucial for E2â€“E3 Interaction in Plant Atg8 System. Biological and Pharmaceutical Bulletin, 2021, 44, 1337-1343.	0.6	3
93	In vitro reconstitution of autophagic processes. Biochemical Society Transactions, 2020, 48, 2003-2014.	1.6	3
94	A C4N4 Diaminopyrimidine Fluorophore. Chemistry - A European Journal, 2019, 25, 4299-4304.	1.7	2
95	Delineating the lipidated Atg8 structure for unveiling its hidden activity in autophagy. Autophagy, 2021, 17, 3271-3272.	4.3	2
96	Structural Studies of Selective Autophagy in Yeast. Methods in Molecular Biology, 2019, 1880, 77-90.	0.4	1
97	Cytoskeleton grows p62 condensates for autophagy. Cell Research, 2022, , .	5.7	1
98	Architecture of the Atg12â€“Atg5â€“Atg16 Complex and its Molecular Role in Autophagy. , 2014, , 57-65.		0
99	Selective Autophagy. , 2014, , 39-48.		0
100	A C4N4 Diaminopyrimidine Fluorophore. Chemistry - A European Journal, 2019, 25, 4243-4243.	1.7	0
101	Formation of Autophagy Initiation Complex Mediated by an Intrinsically Disordered Protein. Seibutsu Butsuri, 2020, 60, 171-173.	0.0	0
102	Special issue entitled Lipid transporters edited by Shamshad Cockcroft and Padinjat Raghu. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159152.	1.2	0