R J Dohmen

List of Publications by Year
in descending order

57 papers	5,007 citations	109137 35 h-index	168136 53 g-index
58 all docs	58 docs citations	58 times ranked	4585 citing authors

#	Article	IF	Citations
1	Interaction with the Assembly Chaperone Ump1 Promotes Incorporation of the Î²7 Subunit into Half-Proteasome Precursor Complexes Driving Their Dimerization. Biomolecules, 2022, 12, 253.	1.8	6
2	Ribosomeâ€associated quality control mediates degradation of the premature translation termination product Orf1p of ODC antizyme mRNA. FEBS Letters, 2021, 595, 2015-2033.	1.3	4
3	Curative Treatment of POMP-Related Autoinflammation and Immune Dysregulation (PRAID) by Hematopoietic Stem Cell Transplantation. Journal of Clinical Immunology, 2021, 41, 1664-1667.	2.0	5
4	Dual role of a GTPase conformational switch for membrane fusion by mitofusin ubiquitylation. Life Science Alliance, 2020, 3, e201900476.	1.3	10
5	Arkadia/RNF111 is a SUMO-targeted ubiquitin ligase with preference for substrates marked with SUMO1-capped SUMO2/3 chain. Nature Communications, 2019, 10, 3678.	5.8	56
6	Methods to study SUMO dynamics in yeast. Methods in Enzymology, 2019, 618, 187-210.	0.4	7
7	Analysis of Cotranslational Polyamine Sensing During Decoding of ODC Antizyme mRNA. Methods in Molecular Biology, 2018, 1694, 309-323.	0.4	1
8	Phenotypes on demand via switchable target protein degradation in multicellular organisms. Nature Communications, 2016, 7, 12202.	5.8	50
9	In Vitro Characterization of Chain Depolymerization Activities of SUMO-Specific Proteases. Methods in Molecular Biology, 2016, 1475, 123-135.	0.4	1
10	SUMO wrestles down myc. Cell Cycle, 2015, 14, 2551-2552.	1.3	2
11	Proteasome assembly from 15S precursors involves major conformational changes and recycling of the Pba1â€“Pba2 chaperone. Nature Communications, 2015, 6, 6123.	5.8	42
12	In Vitro Studies Reveal a Sequential Mode of Chain Processing by the Yeast SUMO (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td 12268-12281.	1.6	18
13	Polyamines directly promote antizyme-mediated degradation of ornithine decarboxylase by the proteasome. Microbial Cell, 2015, 2, 197-207.	1.4	12
14	Starting with a degron: N-terminal formyl-methionine of nascent bacterial proteins contributes to their proteolytic control. Microbial Cell, 2015, 2, 356-359.	1.4	2
15	Multivalent interactions of the SUMO-interaction motifs in RING finger protein 4 determine the specificity for chains of the SUMO. Biochemical Journal, 2014, 457, 207-214.	1.7	36
16	SUMO-targeted ubiquitin ligases. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 75-85.	1.9	202
17	Co-translational Polyamine Sensing by Nascent ODC Antizyme. , 2014, , 203-222.		1
18	BIOCHEMICAL AND BIOPHYSICAL CHARACTERIZATION OF RECOMBINANT YEAST PROTEASOME MATURATION FACTOR UMP1. Computational and Structural Biotechnology Journal, 2013, 7, e201304006.	1.9	20

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19	Hsp70 nucleotide exchange factor Fes1 is essential for ubiquitin-dependent degradation of misfolded cytosolic proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5975-5980.	3.3	83
20	A Conserved Protein with AN1 Zinc Finger and Ubiquitin-like Domains Modulates Cdc48 (p97) Function in the Ubiquitin-Proteasome Pathway. Journal of Biological Chemistry, 2013, 288, 33682-33696.	1.6	23
21	Analysis of Cellular SUMO and SUMOâ€“Ubiquitin Hybrid Conjugates. Methods in Molecular Biology, 2012, 832, 81-92.	0.4	1
22	SUMO playing tag with ubiquitin. Trends in Biochemical Sciences, 2012, 37, 23-31.	3.7	139
23	The N-Terminal Unstructured Domain of Yeast ODC Functions as a Transplantable and Replaceable Ubiquitin-Independent Degron. Journal of Molecular Biology, 2011, 407, 354-367.	2.0	41
24	Polyamine sensing by nascent ornithine decarboxylase antizyme stimulates decoding of its mRNA. Nature, 2011, 477, 490-494.	13.7	91
25	Distinct roles for Arabidopsis SUMO protease ESD4 and its closest homolog ELS1. Planta, 2011, 233, 63-73.	1.6	52
26	Proteomics analyses of microvesicles released by <i>Drosophila</i> Kc167 and S2 cells. Proteomics, 2011, 11, 4397-4410.	1.3	36
27	Chaperone-assisted assembly of the proteasome core particle. Biochemical Society Transactions, 2010, 38, 29-33.	1.6	24
28	Sumoylation as a Signal for Polyubiquitylation and Proteasomal Degradation. Sub-Cellular Biochemistry, 2010, 54, 195-214.	1.0	55
29	Hsm3/S5b Joins the Ranks of 26S Proteasome Assembly Chaperones. Molecular Cell, 2009, 33, 415-416.	4.5	8
30	Catalytic Mechanism and Assembly of the Proteasome. Chemical Reviews, 2009, 109, 1509-1536.	23.0	159
31	Arsenic trioxide stimulates SUMOâ€2/3 modification leading to RNF4â€dependent proteolytic targeting of PML. FEBS Letters, 2008, 582, 3174-3178.	1.3	92
32	PACemakers of Proteasome Core Particle Assembly. Structure, 2008, 16, 1296-1304.	1.6	58
33	The C-terminal Extension of the Î²7 Subunit and Activator Complexes Stabilize Nascent 20 S Proteasomes and Promote Their Maturation. Journal of Biological Chemistry, 2007, 282, 34869-34876.	1.6	81
34	Ubiquitin-dependent Proteolytic Control of SUMO Conjugates. Journal of Biological Chemistry, 2007, 282, 34167-34175.	1.6	274
35	Biting the hand that feeds: Rpn4-dependent feedback regulation of proteasome function. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 1599-1604.	1.9	56
36	Inducible Degron and Its Application to Creating Conditional Mutants. , 2006, 313, 145-160.		6

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37	Assays for Proteasome Assembly and Maturation. , 2005, 301, 243-254.		9
38	Heatâ€Inducible Degron and the Making of Conditional Mutants. Methods in Enzymology, 2005, 399, 799-822.	0.4	43
39	Role of C-terminal Extensions of Subunits Î²2 and Î²7 in Assembly and Activity of Eukaryotic Proteasomes. Journal of Biological Chemistry, 2004, 279, 14323-14330.	1.6	59
40	Polyamines regulate their synthesis by inducing expression and blocking degradation of ODC antizyme. EMBO Journal, 2004, 23, 4857-4867.	3.5	122
41	SUMO protein modification. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1695, 113-131.	1.9	222
42	Ubiquitin-proteasome system. Cellular and Molecular Life Sciences, 2004, 61, 1562-78.	2.4	81
43	Regulatory mechanisms controlling biogenesis of ubiquitin and the proteasome. FEBS Letters, 2004, 567, 259-264.	1.3	79
44	A Lack of SUMO Conjugation Affects cNLS-dependent Nuclear Protein Import in Yeast. Journal of Biological Chemistry, 2002, 277, 49554-49561.	1.6	63
45	SUMO conjugation and deconjugation. Molecular Genetics and Genomics, 2000, 263, 771-786.	2.4	110
46	Identification and characterization of a mammalian protein interacting with 20S proteasome precursors. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 10348-10353.	3.3	84
47	Ump1p Is Required for Proper Maturation of the 20S Proteasome and Becomes Its Substrate upon Completion of the Assembly. Cell, 1998, 92, 489-499.	13.5	298
48	The ubiquitin-like protein Smt3p is activated for conjugation to other proteins by an Aos1p/Uba2p heterodimer. EMBO Journal, 1997, 16, 5509-5519.	3.5	485
49	Cdc48p interacts with Ufd3p, a WD repeat protein required for ubiquitin-mediated proteolysis in Saccharomyces cerevisiae.. EMBO Journal, 1996, 15, 4884-4899.	3.5	237
50	An Essential Yeast Gene Encoding a Homolog of Ubiquitin-activating Enzyme. Journal of Biological Chemistry, 1995, 270, 18099-18109.	1.6	190
51	Heat-inducible degron: a method for constructing temperature-sensitive mutants. Science, 1994, 263, 1273-1276.	6.0	347
52	An efficient transformation procedure enabling long-term storage of competent cells of various yeast genera. Yeast, 1991, 7, 691-692.	0.8	391
53	The N-end rule is mediated by the UBC2(RAD6) ubiquitin-conjugating enzyme.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 7351-7355.	3.3	264
54	Cloning of the Schwanniomyces occidentalis glucoamylase gene (GAM1) and its expression in Saccharomyces cerevisiae. Gene, 1990, 95, 111-121.	1.0	80

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55	Analysis of the alpha-amylase gene of Schwanniomyces occidentalis and the secretion of its gene product in transformants of different yeast genera. FEBS Journal, 1989, 184, 699-706.	0.2	41
56	Regulated overproduction of ?-amylase by transformation of the amylolytic yeast Schwanniomyces occidentalis. Current Genetics, 1989, 15, 319-325.	0.8	48
57	Ultrafiltration-based in vitro assay for determining polyamine binding to proteins. Protocol Exchange, 0, , .	0.3	0