Maurizio Molinari

List of Publications by Year in Descending Order

97 papers	12,710 citations	47 h-index	112 g-index
154 ext. papers	14,114 ext. citations	9.7 avg, IF	6.38 L-index

#	Paper	IF	Citations
97	Quantitative and Time-Resolved Monitoring of Organelle and Protein Delivery to the Lysosome with A Tandem Fluorescent Halo-GFP reporter.. *Molecular Biology of the Cell*, **2022**, mbcE21100526	3.5	3
96	Tandem fluorescent Halo-GFP reporter for quantitative and time-resolved monitoring of organelle and protein delivery to lysosomes **2022**, 1, 187-191		
95	ER-phagy responses in yeast, plants, and mammalian cells and their crosstalk with UPR and ERAD. *Developmental Cell*, **2021**, 56, 949-966	10.2	22
94	N-glycan processing selects ERAD-resistant misfolded proteins for ER-to-lysosome-associated degradation. *EMBO Journal*, **2021**, 40, e107240	13	6
93	Protein Turnover | Endoplasmic Reticulum-Associated Protein Degradation **2021**, 225-228		
92	Endoplasmic Reticulum (ER) and ER-Phagy. *Progress in Molecular and Subcellular Biology*, **2021**, 59, 99-114	3	1
91	Deep learning approach for quantification of organelles and misfolded polypeptide delivery within degradative compartments. *Molecular Biology of the Cell*, **2020**, 31, 1512-1524	3.5	11
90	ER-phagy: Eating the Factory. *Molecular Cell*, **2020**, 78, 811-813	17.6	6
89	Identification of signal peptide features for substrate specificity in human Sec62/Sec63-dependent ER protein import. *FEBS Journal*, **2020**, 287, 4612-4640	5.7	17
88	Mechanistic insights in recov-ER-phagy: micro-ER-phagy to recover from stress. *Autophagy*, **2020**, 16, 385-386	10.2	12
87	Thioredoxin-Related Transmembrane Proteins: TMX1 and Little Brothers TMX2, TMX3, TMX4 and TMX5. *Cells*, **2020**, 9,	7.9	2
86	Proteasomal and lysosomal clearance of faulty secretory proteins: ER-associated degradation (ERAD) and ER-to-lysosome-associated degradation (ERLAD) pathways. *Critical Reviews in Biochemistry and Molecular Biology*, **2019**, 54, 153-163	8.7	57
85	Schwann cells ER-associated degradation contributes to myelin maintenance in adult nerves and limits demyelination in CMT1B mice. *PLoS Genetics*, **2019**, 15, e1008069	6	11
84	ESCRT-III-driven piecemeal micro-ER-phagy remodels the ER during recovery from ER stress. *Nature Communications*, **2019**, 10, 5058	17.4	47
83	A selective ER-phagy exerts procollagen quality control via a Calnexin-FAM134B complex. *EMBO Journal*, **2019**, 38,	13	97
82	Chemical stresses fail to mimic the unfolded protein response resulting from luminal load with unfolded polypeptides. *Journal of Biological Chemistry*, **2018**, 293, 5600-5612	5.4	34
81	ER-to-lysosome-associated degradation of proteasome-resistant ATZ polymers occurs via receptor-mediated vesicular transport. *EMBO Journal*, **2018**, 37,	13	81

80	Three branches to rule them all? UPR signalling in response to chemically versus misfolded proteins-induced ER stress. *Biology of the Cell*, **2018**, 110, 197-204	3.5	18
79	Eat it right: ER-phagy and recovER-phagy. *Biochemical Society Transactions*, **2018**, 46, 699-706	5.1	29
78	Endoplasmic reticulum turnover: ER-phagy and other flavors in selective and non-selective ER clearance. *F1000Research*, **2018**, 7, 454	3.6	39
77	The reductase TMX1 contributes to ERAD by preferentially acting on membrane-associated folding-defective polypeptides. *Biochemical and Biophysical Research Communications*, **2018**, 503, 938-943	3.4	6
76	Role of SEC62 in ER maintenance: A link with ER stress tolerance in SEC62-overexpressing tumors?. *Molecular and Cellular Oncology*, **2017**, 4, e1264351	1.2	16
75	Translocon component Sec62 acts in endoplasmic reticulum turnover during stress recovery. *Nature Cell Biology*, **2016**, 18, 1173-1184	23.4	223
74	Five Questions (with their Answers) on ER-Associated Degradation. *Traffic*, **2016**, 17, 341-50	5.7	27
73	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
72	Quality control mechanisms of protein biogenesis: proteostasis dies hard. *AIMS Biophysics*, **2016**, 3, 456-478	0.8	4
71	The Protein-disulfide Isomerase ERp57 Regulates the Steady-state Levels of the Prion Protein. *Journal of Biological Chemistry*, **2015**, 290, 23631-45	5.4	42
70	Division of labor among oxidoreductases: TMX1 preferentially acts on transmembrane polypeptides. *Molecular Biology of the Cell*, **2015**, 26, 3390-400	3.5	16
69	N-linked sugar-regulated protein folding and quality control in the ER. *Seminars in Cell and Developmental Biology*, **2015**, 41, 79-89	7.5	156
68	A novel UGGT1 and p97-dependent checkpoint for native ectodomains with ionizable intramembrane residue. *Molecular Biology of the Cell*, **2015**, 26, 1532-42	3.5	12
67	Protein trafficking: RESETting proteostasis. *Nature Chemical Biology*, **2014**, 10, 881-2	11.7	3
66	How viruses hijack the ERAD tuning machinery. *Journal of Virology*, **2014**, 88, 10272-5	6.6	30
65	Proteostasis: bad news and good news from the endoplasmic reticulum. *Swiss Medical Weekly*, **2014**, 144, w14001	3.1	11
64	Non-Lipidated LC3 is Essential for Mouse Hepatitis Virus Infection **2014**, 129-136		1
63	Autoadaptive ER-associated degradation defines a preemptive unfolded protein response pathway. *Molecular Cell*, **2013**, 52, 783-93	17.6	20

62	Transgenic expression of antibody in brain neurons impairs age-dependent amyloid deposition in APP23 mice. *Neurobiology of Aging*, **2013**, 34, 2866-78	5.6	4
61	Specificity and regulation of the endoplasmic reticulum-associated degradation machinery. *Traffic*, **2013**, 14, 767-77	5.7	47
60	Endoplasmic Reticulum-Associated Protein Degradation **2013**, 200-203		
59	UDP-glucose:glycoprotein glucosyltransferase (UGGT1) promotes substrate solubility in the endoplasmic reticulum. *Molecular Biology of the Cell*, **2013**, 24, 2597-608	3.5	31
58	Role of the SEL1L:LC3-I complex as an ERAD tuning receptor in the mammalian ER. *Molecular Cell*, **2012**, 46, 809-19	17.6	39
57	Flagging and docking: dual roles for N-glycans in protein quality control and cellular proteostasis. *Trends in Biochemical Sciences*, **2012**, 37, 404-10	10.3	68
56	Unconventional roles of nonlipidated LC3 in ERAD tuning and coronavirus infection. *Autophagy*, **2012**, 8, 1534-6	10.2	15
55	Unconventional use of LC3 by coronaviruses through the alleged subversion of the ERAD tuning pathway. *Viruses*, **2011**, 3, 1610-23	6.2	18
54	Malectin participates in a backup glycoprotein quality control pathway in the mammalian ER. *PLoS ONE*, **2011**, 6, e16304	3.7	60
53	Chronic delivery of antibody fragments using immunoisolated cell implants as a passive vaccination tool. *PLoS ONE*, **2011**, 6, e18268	3.7	6
52	ERAD and ERAD tuning: disposal of cargo and of ERAD regulators from the mammalian ER. *Current Opinion in Cell Biology*, **2011**, 23, 176-83	9	103
51	Stringent requirement for HRD1, SEL1L, and OS-9/XTP3-B for disposal of ERAD-LS substrates. *Journal of Cell Biology*, **2010**, 188, 223-35	7.3	148
50	Autophagy-independent LC3 function in vesicular traffic. *Autophagy*, **2010**, 6, 994-6	10.2	23
49	Coronaviruses Hijack the LC3-I-positive EDEMosomes, ER-derived vesicles exporting short-lived ERAD regulators, for replication. *Cell Host and Microbe*, **2010**, 7, 500-8	23.4	278
48	ERAD substrates: which way out?. *Seminars in Cell and Developmental Biology*, **2010**, 21, 526-32	7.5	96
47	N-glycan structures: recognition and processing in the ER. *Trends in Biochemical Sciences*, **2010**, 35, 74-82	10.3	356
46	Cyclosporine A-sensitive, cyclophilin B-dependent endoplasmic reticulum-associated degradation. *PLoS ONE*, **2010**, 5, e13008	3.7	39
45	Segregation and rapid turnover of EDEM1 by an autophagy-like mechanism modulates standard ERAD and folding activities. *Biochemical and Biophysical Research Communications*, **2008**, 371, 405-10	3.4	104

44	The endoplasmic reticulum crossroads for newly synthesized polypeptide chains. *Progress in Molecular Biology and Translational Science*, **2008**, 83, 135-79	4	16
43	Consequences of individual N-glycan deletions and of proteasomal inhibition on secretion of active BACE. *Molecular Biology of the Cell*, **2008**, 19, 4086-98	3.5	20
42	A dual task for the Xbp1-responsive OS-9 variants in the mammalian endoplasmic reticulum: inhibiting secretion of misfolded protein conformers and enhancing their disposal. *Journal of Biological Chemistry*, **2008**, 283, 16446-54	5.4	96
41	N-glycan structure dictates extension of protein folding or onset of disposal. *Nature Chemical Biology*, **2007**, 3, 313-20	11.7	232
40	Substrate-specific requirements for UGT1-dependent release from calnexin. *Molecular Cell*, **2007**, 27, 238-249	17.6	68
39	Glycoprotein folding and the role of EDEM1, EDEM2 and EDEM3 in degradation of folding-defective glycoproteins. *FEBS Letters*, **2007**, 581, 3658-64	3.8	101
38	In and out of the ER: protein folding, quality control, degradation, and related human diseases. *Physiological Reviews*, **2007**, 87, 1377-408	47.9	491
37	N-linked glycan recognition and processing: the molecular basis of endoplasmic reticulum quality control. *Current Opinion in Structural Biology*, **2006**, 16, 592-9	8.1	101
36	Consequences of ERp57 deletion on oxidative folding of obligate and facultative clients of the calnexin cycle. *Journal of Biological Chemistry*, **2006**, 281, 6219-26	5.4	94
35	EDEM1 regulates ER-associated degradation by accelerating de-mannosylation of folding-defective polypeptides and by inhibiting their covalent aggregation. *Biochemical and Biophysical Research Communications*, **2006**, 349, 1278-84	3.4	134
34	N-glycan processing in ER quality control. *Journal of Cell Science*, **2006**, 119, 4373-80	5.3	232
33	The glycan code of the endoplasmic reticulum: asparagine-linked carbohydrates as protein maturation and quality-control tags. *Trends in Cell Biology*, **2005**, 15, 364-70	18.3	210
32	beta-site specific intrabodies to decrease and prevent generation of Alzheimer‰ Abeta peptide. *Journal of Cell Biology*, **2005**, 168, 863-8	7.3	92
31	Persistent glycoprotein misfolding activates the glucosidase II/UGT1-driven calnexin cycle to delay aggregation and loss of folding competence. *Molecular Cell*, **2005**, 20, 503-12	17.6	96
30	Analyzing folding and degradation of metabolically labelled polypeptides by conventional and diagonal sodium dodecyl sulfate-polyacrylamide gel electrophoresis. *Biological Procedures Online*, **2005**, 7, 136-43	8.3	4
29	The use of calnexin and calreticulin by cellular and viral glycoproteins. *Journal of Biological Chemistry*, **2005**, 280, 28265-71	5.4	47
28	A novel stress-induced EDEM variant regulating endoplasmic reticulum-associated glycoprotein degradation. *Journal of Biological Chemistry*, **2005**, 280, 2424-8	5.4	126
27	Degradation of trafficking-defective long QT syndrome type II mutant channels by the ubiquitin-proteasome pathway. *Journal of Biological Chemistry*, **2005**, 280, 19419-25	5.4	85

26	The secretory capacity of a cell depends on the efficiency of endoplasmic reticulum-associated degradation. *Current Topics in Microbiology and Immunology*, **2005**, 300, 1-15	3.3	28
25	Endoplasmic Reticulum-Associated Protein Degradation **2004**, 20-23		
24	EDEM contributes to maintenance of protein folding efficiency and secretory capacity. *Journal of Biological Chemistry*, **2004**, 279, 44600-5	5.4	36
23	Contrasting functions of calreticulin and calnexin in glycoprotein folding and ER quality control. *Molecular Cell*, **2004**, 13, 125-35	17.6	177
22	Role of EDEM in the release of misfolded glycoproteins from the calnexin cycle. *Science*, **2003**, 299, 1397-400	33.3	391
21	The disulphide bonds in the catalytic domain of BACE are critical but not essential for amyloid precursor protein processing activity. *Journal of Neurochemistry*, **2002**, 80, 1079-88	6	26
20	Early postnatal death and motor disorders in mice congenitally deficient in calnexin expression. *Molecular and Cellular Biology*, **2002**, 22, 7398-404	4.8	114
19	Analyzing cotranslational protein folding and disulfide formation by diagonal sodium dodecyl sulfate-polyacrylamide gel electrophoresis. *Methods in Enzymology*, **2002**, 348, 35-42	1.7	15
18	Sequential assistance of molecular chaperones and transient formation of covalent complexes during protein degradation from the ER. *Journal of Cell Biology*, **2002**, 158, 247-57	7.3	186
17	Folding of viral glycoproteins in the endoplasmic reticulum. *Virus Research*, **2002**, 82, 83-6	6.4	3
16	Chaperone selection during glycoprotein translocation into the endoplasmic reticulum. *Science*, **2000**, 288, 331-3	33.3	295
15	The Helicobacter pylori neutrophil-activating protein is an iron-binding protein with dodecameric structure. *Molecular Microbiology*, **1999**, 34, 238-46	4.1	143
14	Glycoproteins form mixed disulphides with oxidoreductases during folding in living cells. *Nature*, **1999**, 402, 90-3	50.4	270
13	Setting the standards: quality control in the secretory pathway. *Science*, **1999**, 286, 1882-8	33.3	1073
12	Action site and cellular effects of cytotoxin VacA produced by Helicobacter pylori. *Folia Microbiologica*, **1998**, 43, 279-84	2.8	14
11	Calpain: a protease in search of a function?. *Biochemical and Biophysical Research Communications*, **1998**, 247, 193-203	3.4	333
10	The acid activation of Helicobacter pylori toxin VacA: structural and membrane binding studies. *Biochemical and Biophysical Research Communications*, **1998**, 248, 334-40	3.4	78
9	Selective inhibition of Ii-dependent antigen presentation by Helicobacter pylori toxin VacA. *Journal of Experimental Medicine*, **1998**, 187, 135-40	16.6	246

8	Vacuoles induced by Helicobacter pylori toxin contain both late endosomal and lysosomal markers. *Journal of Biological Chemistry*, **1997**, 272, 25339-44	5.4	153
7	Proteolysis by calpains: a possible contribution to degradation of p53. *Molecular and Cellular Biology*, **1997**, 17, 2806-15	4.8	152
6	Calpain: a cytosolic proteinase active at the membranes. *Journal of Membrane Biology*, **1997**, 156, 1-8	2.3	133
5	Purification of active calpain by affinity chromatography on an immobilized peptide inhibitor. *FEBS Journal*, **1996**, 241, 948-54		22
4	Purification of mu-calpain by a novel affinity chromatography approach. New insights into the mechanism of the interaction of the protease with targets. *Journal of Biological Chemistry*, **1995**, 270, 14576-81	5.4	30
3	PEST sequences do not influence substrate susceptibility to calpain proteolysis. *Journal of Biological Chemistry*, **1995**, 270, 2032-5	5.4	52
2	Ca(2+)-activated neutral protease is active in the erythrocyte membrane in its nonautolyzed 80-kDa form. *Journal of Biological Chemistry*, **1994**, 269, 27992-5	5.4	65
1	Ca(2+)-activated neutral protease is active in the erythrocyte membrane in its nonautolyzed 80-kDa form.. *Journal of Biological Chemistry*, **1994**, 269, 27992-27995	5.4	72