

Marius K Lemberg

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

8,942
citations

136950

32
h-index

197818

49
g-index

58
all docs

58
docs citations

58
times ranked

17707
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222. | 9.1 | 4,701 |
| 2 | Identification of Signal Peptide Peptidase, a Presenilin-Type Aspartic Protease. <i>Science</i> , 2002, 296, 2215-2218. | 12.6 | 521 |
| 3 | Intramembrane proteolysis promotes trafficking of hepatitis C virus core protein to lipid droplets. <i>EMBO Journal</i> , 2002, 21, 3980-3988. | 7.8 | 418 |
| 4 | The mitochondrial intramembrane protease PARL cleaves human Pink1 to regulate Pink1 trafficking. <i>Journal of Neurochemistry</i> , 2011, 117, 856-867. | 3.9 | 313 |
| 5 | Requirements for Signal Peptide Peptidase-Catalyzed Intramembrane Proteolysis. <i>Molecular Cell</i> , 2002, 10, 735-744. | 9.7 | 235 |
| 6 | Proteolytic ectodomain shedding of membrane proteins in mammals—hardware, concepts, and recent developments. <i>EMBO Journal</i> , 2018, 37, . | 7.8 | 211 |
| 7 | Functional and evolutionary implications of enhanced genomic analysis of rhomboid intramembrane proteases. <i>Genome Research</i> , 2007, 17, 1634-1646. | 5.5 | 207 |
| 8 | Intramembrane Proteolysis of Signal Peptides: An Essential Step in the Generation of HLA-E Epitopes. <i>Journal of Immunology</i> , 2001, 167, 6441-6446. | 0.8 | 167 |
| 9 | Ubiquitin-Dependent Intramembrane Rhomboid Protease Promotes ERAD of Membrane Proteins. <i>Molecular Cell</i> , 2012, 47, 558-569. | 9.7 | 163 |
| 10 | Mechanism of intramembrane proteolysis investigated with purified rhomboid proteases. <i>EMBO Journal</i> , 2005, 24, 464-472. | 7.8 | 157 |
| 11 | Targeting Presenilin-type Aspartic Protease Signal Peptide Peptidase with β -Secretase Inhibitors. <i>Journal of Biological Chemistry</i> , 2003, 278, 16528-16533. | 3.4 | 114 |
| 12 | Release of Signal Peptide Fragments into the Cytosol Requires Cleavage in the Transmembrane Region by a Protease Activity That Is Specifically Blocked by a Novel Cysteine Protease Inhibitor. <i>Journal of Biological Chemistry</i> , 2000, 275, 30951-30956. | 3.4 | 111 |
| 13 | Mammalian EGF receptor activation by the rhomboid protease RHBDL2. <i>EMBO Reports</i> , 2011, 12, 421-427. | 4.5 | 103 |
| 14 | Understanding intramembrane proteolysis: from protein dynamics to reaction kinetics. <i>Trends in Biochemical Sciences</i> , 2015, 40, 318-327. | 7.5 | 102 |
| 15 | Signal peptide peptidase functions in <i>ERAD</i> to cleave the unfolded protein response regulator <i>XBP1</i> . <i>EMBO Journal</i> , 2014, 33, 2492-2506. | 7.8 | 95 |
| 16 | Consensus Analysis of Signal Peptide Peptidase and Homologous Human Aspartic Proteases Reveals Opposite Topology of Catalytic Domains Compared with Presenilins. <i>Journal of Biological Chemistry</i> , 2004, 279, 50790-50798. | 3.4 | 90 |
| 17 | Intramembrane protease PARL defines a negative regulator of PINK1- and PARK2/Parkin-dependent mitophagy. <i>Autophagy</i> , 2015, 11, 1484-1498. | 9.1 | 81 |
| 18 | Clipping or Extracting: Two Ways to Membrane Protein Degradation. <i>Trends in Cell Biology</i> , 2015, 25, 611-622. | 7.9 | 78 |

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|----|---|------|-----------|
| 19 | Human Cytomegalovirus UL40 Signal Peptide Regulates Cell Surface Expression of the NK Cell Ligands HLA-E and gpUL18. <i>Journal of Immunology</i> , 2012, 188, 2794-2804. | 0.8 | 77 |
| 20 | Incomplete proteasomal degradation of green fluorescent proteins in the context of tandem fluorescent protein timers. <i>Molecular Biology of the Cell</i> , 2016, 27, 360-370. | 2.1 | 72 |
| 21 | Maintenance of organellar protein homeostasis by ER-associated degradation and related mechanisms. <i>Molecular Cell</i> , 2021, 81, 2507-2519. | 9.7 | 69 |
| 22 | Cooperation of mitochondrial and ER factors in quality control of tail-anchored proteins. <i>ELife</i> , 2019, 8, . | 6.0 | 68 |
| 23 | Genome-wide C-SWAT library for high-throughput yeast genome tagging. <i>Nature Methods</i> , 2018, 15, 598-600. | 19.0 | 57 |
| 24 | Requirement of the Proteasome for the Trimming of Signal Peptide-derived Epitopes Presented by the Nonclassical Major Histocompatibility Complex Class I Molecule HLA-E. <i>Journal of Biological Chemistry</i> , 2003, 278, 33747-33752. | 3.4 | 54 |
| 25 | Cutting Proteins within Lipid Bilayers: Rhomboid Structure and Mechanism. <i>Molecular Cell</i> , 2007, 28, 930-940. | 9.7 | 51 |
| 26 | Emerging role of rhomboid family proteins in mammalian biology and disease. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2840-2848. | 2.6 | 51 |
| 27 | The Yeast ER-Intramembrane Protease Ypf1 Refines Nutrient Sensing by Regulating Transporter Abundance. <i>Molecular Cell</i> , 2014, 56, 630-640. | 9.7 | 48 |
| 28 | Intramembrane proteolysis at a glance: from signalling to protein degradation. <i>Journal of Cell Science</i> , 2019, 132, . | 2.0 | 47 |
| 29 | Sampling the membrane: function of rhomboid-family proteins. <i>Trends in Cell Biology</i> , 2013, 23, 210-217. | 7.9 | 45 |
| 30 | Intramembrane Proteolysis in Regulated Protein Trafficking. <i>Traffic</i> , 2011, 12, 1109-1118. | 2.7 | 42 |
| 31 | CRISPR-Cas12a-assisted PCR tagging of mammalian genes. <i>Journal of Cell Biology</i> , 2020, 219, . | 5.2 | 42 |
| 32 | On the mechanism of SPP-catalysed intramembrane proteolysis; conformational control of peptide bond hydrolysis in the plane of the membrane. <i>FEBS Letters</i> , 2004, 564, 213-218. | 2.8 | 40 |
| 33 | Rhomboid intramembrane protease RHBDL4 triggers ER-export and non-canonical secretion of membrane-anchored TGF β . <i>Scientific Reports</i> , 2016, 6, 27342. | 3.3 | 39 |
| 34 | Molecular Pathways for Immune Recognition of Preproinsulin Signal Peptide in Type 1 Diabetes. <i>Diabetes</i> , 2018, 67, 687-696. | 0.6 | 35 |
| 35 | Inactive rhomboid proteins: New mechanisms with implications in health and disease. <i>Seminars in Cell and Developmental Biology</i> , 2016, 60, 29-37. | 5.0 | 29 |
| 36 | The Metastable XBP1u Transmembrane Domain Defines Determinants for Intramembrane Proteolysis by Signal Peptide Peptidase. <i>Cell Reports</i> , 2019, 26, 3087-3099.e11. | 6.4 | 27 |

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|----|---|-----|-----------|
| 37 | The intramembrane protease <scp>SPPL</scp> 2c promotes male germ cell development by cleaving phospholamban. EMBO Reports, 2019, 20, . | 4.5 | 27 |
| 38 | Intramembrane protease RHBDL4 cleaves oligosaccharyltransferase subunits to target them for ER-associated degradation. Journal of Cell Science, 2020, 133, . | 2.0 | 22 |
| 39 | Interleukin-11 (IL-11) receptor cleavage by the rhomboid protease RHBDL2 induces IL-11 trans signaling. FASEB Journal, 2021, 35, e21380. | 0.5 | 20 |
| 40 | The intramembrane protease SPP impacts morphology of the endoplasmic reticulum by triggering degradation of morphogenic proteins. Journal of Biological Chemistry, 2019, 294, 2786-5585. | 3.4 | 19 |
| 41 | Analysis of polypeptides by sodium dodecyl sulfate-polyacrylamide gel electrophoresis alongside in vitro-generated reference peptides. Analytical Biochemistry, 2003, 319, 327-331. | 2.4 | 18 |
| 42 | Insights into the catalytic properties of the mitochondrial rhomboid protease PARL. Journal of Biological Chemistry, 2021, 296, 100383. | 3.4 | 16 |
| 43 | Transmembrane dislocases: a second chance for protein targeting. Trends in Cell Biology, 2021, 31, 898-911. | 7.9 | 13 |
| 44 | Signal Peptide Peptidase-Type Proteases: Versatile Regulators with Functions Ranging from Limited Proteolysis to Protein Degradation. Journal of Molecular Biology, 2020, 432, 5063-5078. | 4.2 | 10 |
| 45 | Membrane Protein Dislocation by the Rhomboid Pseudoprotease Dfm1: No Pore Needed?. Molecular Cell, 2018, 69, 161-162. | 9.7 | 7 |
| 46 | The role of cellular iron deficiency in controlling iron export. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129829. | 2.4 | 7 |
| 47 | Derlins with scissors: primordial <scp>ERAD</scp> in bacteria. EMBO Journal, 2020, 39, e105012. | 7.8 | 5 |
| 48 | Yeast membrane proteomics using leucine metabolic labelling: Bioinformatic data processing and exemplary application to the ER-intramembrane protease Ypf1. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1363-1371. | 2.3 | 4 |
| 49 | Probing the Activity of Eukaryotic Rhomboid Proteases In Vitro. Methods in Enzymology, 2017, 584, 99-126. | 1.0 | 1 |