Matthew Freeman

List of Publications by Year
in descending order

65 papers	6,231 citations	101543 36 h-index	118850 62 g-index
82 all docs	82 docs citations	82 times ranked	4259 citing authors

#	Article	IF	Citations
1	Mechanism-based traps enable protease and hydrolase substrate discovery. Nature, 2022, 602, 701-707.	27.8	25
2	iRhom pseudoproteases regulate ER stress-induced cell death through IP3 receptors and BCL-2. Nature Communications, 2022, 13, 1257.	12.8	12
3	The mammalian rhomboid protein RHBDL4 protects against endoplasmic reticulum stress by regulating the morphology and distribution of ER sheets. Journal of Biological Chemistry, 2022, 298, 101935.	3.4	5
4	KOMPEITO, an Atypical Arabidopsis Rhomboid-Related Gene, Is Required for Callose Accumulation and Pollen Wall Development. International Journal of Molecular Sciences, 2022, 23, 5959.	4.1	4
5	Rhomboid Proteins in Cell Signaling. FASEB Journal, 2021, 35, .	0.5	0
6	The iRhom homology domain is indispensable for ADAM17-mediated TNFÎ± and EGF receptor ligand release. Cellular and Molecular Life Sciences, 2021, 78, 5015-5040.	5.4	8
7	Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation. Molecular Cell, 2021, 81, 4784-4798.e7.	9.7	5
8	A genome-wide association study in mice reveals a role for Rhbdf2 in skeletal homeostasis. Scientific Reports, 2020, 10, 3286.	3.3	10
9	Bacterial rhomboid proteases mediate quality control of orphan membrane proteins. EMBO Journal, 2020, 39, e102922.	7.8	21
10	<scp>ADAM</scp> 17â€triggered <scp>TNF</scp> signalling protects the ageing <i>Drosophila</i> retina from lipid dropletâ€mediated degeneration. EMBO Journal, 2020, 39, e104415.	7.8	25
11	Spatial proteomics reveal that the protein phosphatase PTP1B interacts with and may modify tyrosine phosphorylation of the rhomboid protease RHBDL4. Journal of Biological Chemistry, 2019, 294, 11486-11497.	3.4	12
12	The molecular, cellular and pathophysiological roles of iRhom pseudoproteases. Open Biology, 2019, 9, 190003.	3.6	47
13	FRMD8 promotes inflammatory and growth factor signalling by stabilising the iRhom/ADAM17 sheddase complex. ELife, 2018, 7, .	6.0	53
14	Neutrophil and Macrophage Cell Surface Colony-Stimulating Factor 1 Shed by ADAM17 Drives Mouse Macrophage Proliferation in Acute and Chronic Inflammation. Molecular and Cellular Biology, 2018, 38, .	2.3	24
15	iRhom2-mediated proinflammatory signalling regulates heart repair following myocardial infarction. JCI Insight, 2018, 3, .	5.0	13
16	Rhomboid family member 2 regulates cytoskeletal stress-associated Keratin 16. Nature Communications, 2017, 8, 14174.	12.8	36
17	Rhomboid proteases in human disease: Mechanisms and future prospects. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 2200-2209.	4.1	56
18	Quantitative proteomics screen identifies a substrate repertoire of rhomboid protease RHBDL2 in human cells and implicates it in epithelial homeostasis. Scientific Reports, 2017, 7, 7283.	3.3	39

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19	Phosphorylation of iRhom2 at the plasma membrane controls mammalian TACE-dependent inflammatory and growth factor signalling. ELife, 2017, 6, .	6.0	90
20	Substrates and physiological functions of secretase rhomboid proteases. Seminars in Cell and Developmental Biology, 2016, 60, 10-18.	5.0	31
21	Control of ADAM17 activity by regulation of its cellular localisation. Scientific Reports, 2016, 6, 35067.	3.3	75
22	Rhomboids, signalling and cell biology. Biochemical Society Transactions, 2016, 44, 945-950.	3.4	15
23	Rhomboid intramembrane protease RHBDL4 triggers ER-export and non-canonical secretion of membrane-anchored TGFÎ±. Scientific Reports, 2016, 6, 27342.	3.3	39
24	Genetic interaction implicates iRhom2 in the regulation of EGF receptor signalling in mice. Biology Open, 2014, 3, 1151-1157.	1.2	32
25	The Rhomboid-Like Superfamily: Molecular Mechanisms and Biological Roles. Annual Review of Cell and Developmental Biology, 2014, 30, 235-254.	9.4	115
26	Mammalian iRhoms have distinct physiological functions including an essential role in TACE regulation. EMBO Reports, 2013, 14, 884-890.	4.5	120
27	Intramembrane proteolysis by rhomboids: catalytic mechanisms and regulatory principles. Current Opinion in Structural Biology, 2013, 23, 851-858.	5.7	10
28	Structure of Rhomboid Protease in Complex with Î²-Lactam Inhibitors Defines the S2â€² Cavity. Structure, 2013, 21, 1051-1058.	3.3	29
29	Tumor Necrosis Factor Signaling Requires iRhom2 to Promote Trafficking and Activation of TACE. Science, 2012, 335, 225-228.	12.6	344
30	New lives for old: evolution of pseudoenzyme function illustrated by iRhoms. Nature Reviews Molecular Cell Biology, 2012, 13, 489-498.	37.0	137
31	Rhomboid Family Pseudoproteases Use the ER Quality Control Machinery to Regulate Intercellular Signaling. Cell, 2011, 145, 79-91.	28.9	143
32	Monocyclic Î²-Lactams Are Selective, Mechanism-Based Inhibitors of Rhomboid Intramembrane Proteases. ACS Chemical Biology, 2011, 6, 325-335.	3.4	55
33	Mammalian EGF receptor activation by the rhomboid protease RHBDL2. EMBO Reports, 2011, 12, 421-427.	4.5	103
34	The structural basis for catalysis and substrate specificity of a rhomboid protease. EMBO Journal, 2010, 29, 3797-3809.	7.8	97
35	The role of protease activity in ErbB biology. Experimental Cell Research, 2009, 315, 671-682.	2.6	75
36	Rhomboids: 7 years of a new protease family. Seminars in Cell and Developmental Biology, 2009, 20, 231-239.	5.0	36

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37	Sequence-Specific Intramembrane Proteolysis: Identification of a Recognition Motif in Rhomboid Substrates. Molecular Cell, 2009, 36, 1048-1059.	9.7	167
38	Rhomboid Proteases and their Biological Functions. Annual Review of Genetics, 2008, 42, 191-210.	7.6	123
39	Rhomboid protease AarA mediates quorum-sensing inProvidencia stuartiiby activating TatA of the twin-arginine translocase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1003-1008.	7.1	144
40	The EGFR ligands Spitz and Keren act cooperatively in the Drosophila eye. Developmental Biology, 2007, 307, 105-113.	2.0	28
41	Myosin II Regulates Complex Cellular Arrangement and Epithelial Architecture in Drosophila. Developmental Cell, 2007, 13, 717-729.	7.0	103
42	Cutting Proteins within Lipid Bilayers: Rhomboid Structure and Mechanism. Molecular Cell, 2007, 28, 930-940.	9.7	51
43	Functional and evolutionary implications of enhanced genomic analysis of rhomboid intramembrane proteases. Genome Research, 2007, 17, 1634-1646.	5.5	207
44	Normal Mitochondrial Dynamics Requires Rhomboid-7 and Affects Drosophila Lifespan and Neuronal Function. Current Biology, 2006, 16, 982-989.	3.9	119
45	Mechanism of intramembrane proteolysis investigated with purified rhomboid proteases. EMBO Journal, 2005, 24, 464-472.	7.8	157
46	Know Thyself: Stable Cell Fate Decisions in Insect Colour Vision. Current Biology, 2005, 15, R924-R926.	3.9	5
47	AnArabidopsisRhomboid homolog is an intramembrane protease in plants. FEBS Letters, 2005, 579, 5723-5728.	2.8	54
48	Proteolysis within the membrane: rhomboids revealed. Nature Reviews Molecular Cell Biology, 2004, 5, 188-197.	37.0	62
49	Diverse Substrate Recognition Mechanisms for Rhomboids: Thrombomodulin Is Cleaved by Mammalian Rhomboids. Current Biology, 2004, 14, 236-241.	3.9	67
50	Rhomboids. Current Biology, 2003, 13, R586.	3.9	4
51	Mitochondrial membrane remodelling regulated by a conserved rhomboid protease. Nature, 2003, 423, 537-541.	27.8	367
52	Substrate Specificity of Rhomboid Intramembrane Proteases Is Governed by Helix-Breaking Residues in the Substrate Transmembrane Domain. Molecular Cell, 2003, 11, 1425-1434.	9.7	221
53	Morphogen Gradients, in Theory. Developmental Cell, 2002, 2, 689-690.	7.0	18
54	Conservation of Intramembrane Proteolytic Activity and Substrate Specificity in Prokaryotic and Eukaryotic Rhomboids. Current Biology, 2002, 12, 1507-1512.	3.9	126

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55	A family of Rhomboid intramembrane proteases activates all Drosophila membrane-tethered EGF ligands. EMBO Journal, 2002, 21, 4277-4286.	7.8	226
56	MEDAL REVIEW: A fly's eye view of EGF receptor signalling. EMBO Journal, 2002, 21, 6635-6642.	7.8	16
57	Drosophila Rhomboid-1 Defines a Family of Putative Intramembrane Serine Proteases. Cell, 2001, 107, 173-182.	28.9	533
58	Regulated Intracellular Ligand Transport and Proteolysis Control EGF Signal Activation in Drosophila. Cell, 2001, 107, 161-171.	28.9	342
59	Notch signalling and the initiation of neural development in the<i>Drosophila</i>eye. Development (Cambridge), 2001, 128, 3889-3898.	2.5	120
60	Evidence that Argos is an antagonistic ligand of the EGF receptor. Oncogene, 2000, 19, 3560-3562.	5.9	30
61	Feedback control of intercellular signalling in development. Nature, 2000, 408, 313-319.	27.8	511
62	A family of <i>rhomboid</i>-like genes: <i>Drosophila rhomboid-1</i> and <i>roughoid/rhomboid-3</i> cooperate to activate EGF receptor signaling. Genes and Development, 2000, 14, 1651-1663.	5.9	172
63	Control of EGF receptor signalling: lessons from fruitflies. , 1999, 18, 181-201.		55
64	Inhibition of Drosophila EGF receptor activation by the secreted protein Argos. Nature, 1995, 376, 699-702.	27.8	250
65	Intercellular Signaling by Rhomboids in Eukaryotes and Prokaryotes. , 0, , 431-442.		0