## Matthew Freeman

List of Publications by Year in descending order

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65 papers

6,231 citations

36 h-index 62 g-index

82 all docs 82 docs citations

times ranked

82

4259 citing authors

#	Article	IF	CITATIONS
1	Drosophila Rhomboid-1 Defines a Family of Putative Intramembrane Serine Proteases. Cell, 2001, 107, 173-182.	28.9	533
2	Feedback control of intercellular signalling in development. Nature, 2000, 408, 313-319.	27.8	511
3	Mitochondrial membrane remodelling regulated by a conserved rhomboid protease. Nature, 2003, 423, 537-541.	27.8	367
4	Tumor Necrosis Factor Signaling Requires iRhom2 to Promote Trafficking and Activation of TACE. Science, 2012, 335, 225-228.	12.6	344
5	Regulated Intracellular Ligand Transport and Proteolysis Control EGF Signal Activation in Drosophila. Cell, 2001, 107, 161-171.	28.9	342
6	Inhibition of Drosophila EGF receptor activation by the secreted protein Argos. Nature, 1995, 376, 699-702.	27.8	250
7	A family of Rhomboid intramembrane proteases activates all Drosophila membrane-tethered EGF ligands. EMBO Journal, 2002, 21, 4277-4286.	7.8	226
8	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
9	Functional and evolutionary implications of enhanced genomic analysis of rhomboid intramembrane proteases. Genome Research, 2007, 17, 1634-1646.	5 <b>.</b> 5	207
10	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
11	Sequence-Specific Intramembrane Proteolysis: Identification of a Recognition Motif in Rhomboid Substrates. Molecular Cell, 2009, 36, 1048-1059.	9.7	167
12	Mechanism of intramembrane proteolysis investigated with purified rhomboid proteases. EMBO Journal, 2005, 24, 464-472.	7.8	157
13	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
14	Rhomboid Family Pseudoproteases Use the ER Quality Control Machinery to Regulate Intercellular Signaling. Cell, 2011, 145, 79-91.	28.9	143
15	New lives for old: evolution of pseudoenzyme function illustrated by iRhoms. Nature Reviews Molecular Cell Biology, 2012, 13, 489-498.	37.0	137
16	Conservation of Intramembrane Proteolytic Activity and Substrate Specificity in Prokaryotic and Eukaryotic Rhomboids. Current Biology, 2002, 12, 1507-1512.	3.9	126
17	Rhomboid Proteases and their Biological Functions. Annual Review of Genetics, 2008, 42, 191-210.	7.6	123
18	Mammalian iRhoms have distinct physiological functions including an essential role in TACE regulation. EMBO Reports, 2013, 14, 884-890.	4.5	120

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19	Notch signalling and the initiation of neural development in the <i>Drosophila </i> eye. Development (Cambridge), 2001, 128, 3889-3898.	2.5	120
20	Normal Mitochondrial Dynamics Requires Rhomboid-7 and Affects Drosophila Lifespan and Neuronal Function. Current Biology, 2006, 16, 982-989.	3.9	119
21	The Rhomboid-Like Superfamily: Molecular Mechanisms and Biological Roles. Annual Review of Cell and Developmental Biology, 2014, 30, 235-254.	9.4	115
22	Myosin II Regulates Complex Cellular Arrangement and Epithelial Architecture in Drosophila. Developmental Cell, 2007, 13, 717-729.	7.0	103
23	Mammalian EGF receptor activation by the rhomboid protease RHBDL2. EMBO Reports, 2011, 12, 421-427.	4.5	103
24	The structural basis for catalysis and substrate specificity of a rhomboid protease. EMBO Journal, 2010, 29, 3797-3809.	7.8	97
25	Phosphorylation of iRhom2 at the plasma membrane controls mammalian TACE-dependent inflammatory and growth factor signalling. ELife, 2017, 6, .	6.0	90
26	The role of protease activity in ErbB biology. Experimental Cell Research, 2009, 315, 671-682.	2.6	75
27	Control of ADAM17 activity by regulation of its cellular localisation. Scientific Reports, 2016, 6, 35067.	3.3	75
28	Diverse Substrate Recognition Mechanisms for Rhomboids: Thrombomodulin Is Cleaved by Mammalian Rhomboids. Current Biology, 2004, 14, 236-241.	3.9	67
29	Proteolysis within the membrane: rhomboids revealed. Nature Reviews Molecular Cell Biology, 2004, 5, 188-197.	37.0	62
30	Rhomboid proteases in human disease: Mechanisms and future prospects. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 2200-2209.	4.1	56
31	Control of EGF receptor signalling: lessons from fruitflies. , 1999, 18, 181-201.		55
32	Monocyclic β-Lactams Are Selective, Mechanism-Based Inhibitors of Rhomboid Intramembrane Proteases. ACS Chemical Biology, 2011, 6, 325-335.	3.4	55
33	AnArabidopsisRhomboid homolog is an intramembrane protease in plants. FEBS Letters, 2005, 579, 5723-5728.	2.8	54
34	FRMD8 promotes inflammatory and growth factor signalling by stabilising the iRhom/ADAM17 sheddase complex. ELife, 2018, 7, .	6.0	53
35	Cutting Proteins within Lipid Bilayers: Rhomboid Structure and Mechanism. Molecular Cell, 2007, 28, 930-940.	9.7	51
36	The molecular, cellular and pathophysiological roles of iRhom pseudoproteases. Open Biology, 2019, 9, 190003.	3.6	47

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37	Rhomboid intramembrane protease RHBDL4 triggers ER-export and non-canonical secretion of membrane-anchored TGFα. Scientific Reports, 2016, 6, 27342.	3.3	39
38	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
39	Rhomboids: 7 years of a new protease family. Seminars in Cell and Developmental Biology, 2009, 20, 231-239.	5.0	36
40	Rhomboid family member 2 regulates cytoskeletal stress-associated Keratin 16. Nature Communications, 2017, 8, 14174.	12.8	36
41	Genetic interaction implicates iRhom2 in the regulation of EGF receptor signalling in mice. Biology Open, 2014, 3, 1151-1157.	1.2	32
42	Substrates and physiological functions of secretase rhomboid proteases. Seminars in Cell and Developmental Biology, 2016, 60, 10-18.	5.0	31
43	Evidence that Argos is an antagonistic ligand of the EGF receptor. Oncogene, 2000, 19, 3560-3562.	5.9	30
44	Structure of Rhomboid Protease in Complex with β-Lactam Inhibitors Defines the S2′ Cavity. Structure, 2013, 21, 1051-1058.	3.3	29
45	The EGFR ligands Spitz and Keren act cooperatively in the Drosophila eye. Developmental Biology, 2007, 307, 105-113.	2.0	28
46	<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
47	Mechanism-based traps enable protease and hydrolase substrate discovery. Nature, 2022, 602, 701-707.	27.8	25
48	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
49	Bacterial rhomboid proteases mediate quality control of orphan membrane proteins. EMBO Journal, 2020, 39, e102922.	7.8	21
50	Morphogen Gradients, in Theory. Developmental Cell, 2002, 2, 689-690.	7.0	18
51	MEDAL REVIEW: A fly's eye view of EGF receptor signalling. EMBO Journal, 2002, 21, 6635-6642.	7.8	16
52	Rhomboids, signalling and cell biology. Biochemical Society Transactions, 2016, 44, 945-950.	3.4	15
53	iRhom2-mediated proinflammatory signalling regulates heart repair following myocardial infarction. JCI Insight, 2018, 3, .	5.0	13
54	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

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55	iRhom pseudoproteases regulate ER stress-induced cell death through IP3 receptors and BCL-2. Nature Communications, 2022, 13, 1257.	12.8	12
56	Intramembrane proteolysis by rhomboids: catalytic mechanisms and regulatory principles. Current Opinion in Structural Biology, 2013, 23, 851-858.	5.7	10
57	A genome-wide association study in mice reveals a role for Rhbdf2 in skeletal homeostasis. Scientific Reports, 2020, 10, 3286.	3.3	10
58	The iRhom homology domain is indispensable for ADAM17-mediated TNF $\hat{l}\pm$ and EGF receptor ligand release. Cellular and Molecular Life Sciences, 2021, 78, 5015-5040.	5.4	8
59	Know Thyself: Stable Cell Fate Decisions in Insect Colour Vision. Current Biology, 2005, 15, R924-R926.	3.9	5
60	Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation. Molecular Cell, 2021, 81, 4784-4798.e7.	9.7	5
61	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
62	Rhomboids. Current Biology, 2003, 13, R586.	3.9	4
63	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
64	Rhomboid Proteins in Cell Signaling. FASEB Journal, 2021, 35, .	0.5	0
65	Intercellular Signaling by Rhomboids in Eukaryotes and Prokaryotes. , 0, , 431-442.		O