

# Matthew Freeman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67 papers	5,379 citations	35 h-index	73 g-index
82 ext. papers	5,870 ext. citations	14.7 avg, IF	5.97 L-index

#	Paper	IF	Citations
67	iRhom pseudoproteases regulate ER stress-induced cell death through IP receptors and BCL-2.. <i>Nature Communications</i> , <b>2022</b> , 13, 1257	17.4	1
66	The mammalian rhomboid protein RHBDL4 protects against endoplasmic reticulum stress by regulating the morphology and distribution of ER sheets.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101935	5.4	0
65	KOMPEITO, an Atypical Arabidopsis Rhomboid-Related Gene, Is Required for Callose Accumulation and Pollen Wall Development. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5959	6.3	
64	Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation. <i>Molecular Cell</i> , <b>2021</b> , 81, 4784-4798.e7	17.6	2
63	The iRhom homology domain is indispensable for ADAM17-mediated TNF $\alpha$ and EGF receptor ligand release. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 78, 5015-5040	10.3	2
62	A genome-wide association study in mice reveals a role for Rhbdf2 in skeletal homeostasis. <i>Scientific Reports</i> , <b>2020</b> , 10, 3286	4.9	5
61	Bacterial rhomboid proteases mediate quality control of orphan membrane proteins. <i>EMBO Journal</i> , <b>2020</b> , 39, e102922	13	7
60	ADAM17-triggered TNF signalling protects the ageing Drosophila retina from lipid droplet-mediated degeneration. <i>EMBO Journal</i> , <b>2020</b> , 39, e104415	13	8
59	Spatial proteomics reveal that the protein phosphatase PTP1B interacts with and may modify tyrosine phosphorylation of the rhomboid protease RHBDL4. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 11486-11497	5.4	5
58	The molecular, cellular and pathophysiological roles of iRhom pseudoproteases. <i>Open Biology</i> , <b>2019</b> , 9, 190003	7	27
57	Neutrophil and Macrophage Cell Surface Colony-Stimulating Factor 1 Shed by ADAM17 Drives Mouse Macrophage Proliferation in Acute and Chronic Inflammation. <i>Molecular and Cellular Biology</i> , <b>2018</b> , 38,	4.8	16
56	iRhom2-mediated proinflammatory signalling regulates heart repair following myocardial infarction. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	10
55	Author response: FRMD8 promotes inflammatory and growth factor signalling by stabilising the iRhom/ADAM17 sheddase complex <b>2018</b> ,		2
54	FRMD8 promotes inflammatory and growth factor signalling by stabilising the iRhom/ADAM17 sheddase complex. <i>ELife</i> , <b>2018</b> , 7,	8.9	31
53	Rhomboid family member 2 regulates cytoskeletal stress-associated Keratin 16. <i>Nature Communications</i> , <b>2017</b> , 8, 14174	17.4	25
52	Rhomboid proteases in human disease: Mechanisms and future prospects. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2017</b> , 1864, 2200-2209	4.9	41
51	Quantitative proteomics screen identifies a substrate repertoire of rhomboid protease RHBDL2 in human cells and implicates it in epithelial homeostasis. <i>Scientific Reports</i> , <b>2017</b> , 7, 7283	4.9	31

50	Phosphorylation of iRhom2 at the plasma membrane controls mammalian TACE-dependent inflammatory and growth factor signalling. <i>ELife</i> , <b>2017</b> , 6,	8.9	66
49	Author response: Phosphorylation of iRhom2 at the plasma membrane controls mammalian TACE-dependent inflammatory and growth factor signalling <b>2017</b> ,		2
48	Control of ADAM17 activity by regulation of its cellular localisation. <i>Scientific Reports</i> , <b>2016</b> , 6, 35067	4.9	46
47	Rhomboids, signalling and cell biology. <i>Biochemical Society Transactions</i> , <b>2016</b> , 44, 945-50	5.1	14
46	Rhomboid intramembrane protease RHBDL4 triggers ER-export and non-canonical secretion of membrane-anchored TGF $\beta$ <i>Scientific Reports</i> , <b>2016</b> , 6, 27342	4.9	29
45	Substrates and physiological functions of secretase rhomboid proteases. <i>Seminars in Cell and Developmental Biology</i> , <b>2016</b> , 60, 10-18	7.5	24
44	The rhomboid-like superfamily: molecular mechanisms and biological roles. <i>Annual Review of Cell and Developmental Biology</i> , <b>2014</b> , 30, 235-54	12.6	91
43	Genetic interaction implicates iRhom2 in the regulation of EGF receptor signalling in mice. <i>Biology Open</i> , <b>2014</b> , 3, 1151-7	2.2	25
42	Mammalian iRhoms have distinct physiological functions including an essential role in TACE regulation. <i>EMBO Reports</i> , <b>2013</b> , 14, 884-90	6.5	96
41	Intramembrane proteolysis by rhomboids: catalytic mechanisms and regulatory principles. <i>Current Opinion in Structural Biology</i> , <b>2013</b> , 23, 851-8	8.1	9
40	Structure of rhomboid protease in complex with $\beta$ -lactam inhibitors defines the S2 cavity. <i>Structure</i> , <b>2013</b> , 21, 1051-8	5.2	26
39	Tumor necrosis factor signaling requires iRhom2 to promote trafficking and activation of TACE. <i>Science</i> , <b>2012</b> , 335, 225-8	33.3	286
38	New lives for old: evolution of pseudoenzyme function illustrated by iRhoms. <i>Nature Reviews Molecular Cell Biology</i> , <b>2012</b> , 13, 489-98	48.7	117
37	Rhomboid family pseudoproteases use the ER quality control machinery to regulate intercellular signaling. <i>Cell</i> , <b>2011</b> , 145, 79-91	56.2	126
36	Monocyclic $\beta$ -lactams are selective, mechanism-based inhibitors of rhomboid intramembrane proteases. <i>ACS Chemical Biology</i> , <b>2011</b> , 6, 325-35	4.9	51
35	Mammalian EGF receptor activation by the rhomboid protease RHBDL2. <i>EMBO Reports</i> , <b>2011</b> , 12, 421-7	6.5	89
34	The structural basis for catalysis and substrate specificity of a rhomboid protease. <i>EMBO Journal</i> , <b>2010</b> , 29, 3797-809	13	89
33	The role of protease activity in ErbB biology. <i>Experimental Cell Research</i> , <b>2009</b> , 315, 671-82	4.2	72

32	Rhomboids: 7 years of a new protease family. <i>Seminars in Cell and Developmental Biology</i> , <b>2009</b> , 20, 231-9	9.5	35
31	Sequence-specific intramembrane proteolysis: identification of a recognition motif in rhomboid substrates. <i>Molecular Cell</i> , <b>2009</b> , 36, 1048-59	17.6	149
30	Rhomboid proteases and their biological functions. <i>Annual Review of Genetics</i> , <b>2008</b> , 42, 191-210	14.5	115
29	Functional and evolutionary implications of enhanced genomic analysis of rhomboid intramembrane proteases. <i>Genome Research</i> , <b>2007</b> , 17, 1634-46	9.7	179
28	Rhomboid protease AarA mediates quorum-sensing in <i>Providencia stuartii</i> by activating TatA of the twin-arginine translocase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 1003-8	11.5	131
27	The EGFR ligands Spitz and Keren act cooperatively in the <i>Drosophila</i> eye. <i>Developmental Biology</i> , <b>2007</b> , 307, 105-13	3.1	23
26	Myosin II regulates complex cellular arrangement and epithelial architecture in <i>Drosophila</i> . <i>Developmental Cell</i> , <b>2007</b> , 13, 717-729	10.2	95
25	Cutting proteins within lipid bilayers: rhomboid structure and mechanism. <i>Molecular Cell</i> , <b>2007</b> , 28, 930-40	17.6	49
24	Normal mitochondrial dynamics requires rhomboid-7 and affects <i>Drosophila</i> lifespan and neuronal function. <i>Current Biology</i> , <b>2006</b> , 16, 982-9	6.3	106
23	An Arabidopsis Rhomboid homolog is an intramembrane protease in plants. <i>FEBS Letters</i> , <b>2005</b> , 579, 5723-8	3.8	49
22	Mechanism of intramembrane proteolysis investigated with purified rhomboid proteases. <i>EMBO Journal</i> , <b>2005</b> , 24, 464-72	13	143
21	Eye development: stable cell fate decisions in insect colour vision. <i>Current Biology</i> , <b>2005</b> , 15, R924-6	6.3	5
20	Proteolysis within the membrane: rhomboids revealed. <i>Nature Reviews Molecular Cell Biology</i> , <b>2004</b> , 5, 188-97	48.7	58
19	Diverse substrate recognition mechanisms for rhomboids; thrombomodulin is cleaved by Mammalian rhomboids. <i>Current Biology</i> , <b>2004</b> , 14, 236-41	6.3	54
18	Rhomboids. <i>Current Biology</i> , <b>2003</b> , 13, R586	6.3	4
17	Mitochondrial membrane remodelling regulated by a conserved rhomboid protease. <i>Nature</i> , <b>2003</b> , 423, 537-41	50.4	350
16	Substrate specificity of rhomboid intramembrane proteases is governed by helix-breaking residues in the substrate transmembrane domain. <i>Molecular Cell</i> , <b>2003</b> , 11, 1425-34	17.6	213
15	Conservation of intramembrane proteolytic activity and substrate specificity in prokaryotic and eukaryotic rhomboids. <i>Current Biology</i> , <b>2002</b> , 12, 1507-12	6.3	119

14	A family of Rhomboid intramembrane proteases activates all Drosophila membrane-tethered EGF ligands. <i>EMBO Journal</i> , <b>2002</b> , 21, 4277-86	13	197
13	A fly's eye view of EGF receptor signalling. <i>EMBO Journal</i> , <b>2002</b> , 21, 6635-42	13	15
12	Morphogen gradients, in theory. <i>Developmental Cell</i> , <b>2002</b> , 2, 689-90	10.2	16
11	Drosophila rhomboid-1 defines a family of putative intramembrane serine proteases. <i>Cell</i> , <b>2001</b> , 107, 173-82	56.2	496
10	Regulated intracellular ligand transport and proteolysis control EGF signal activation in Drosophila. <i>Cell</i> , <b>2001</b> , 107, 161-71	56.2	322
9	Notch signalling and the initiation of neural development in the Drosophila eye. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 3889-3898	6.6	100
8	Evidence that Argos is an antagonistic ligand of the EGF receptor. <i>Oncogene</i> , <b>2000</b> , 19, 3560-2	9.2	28
7	Feedback control of intercellular signalling in development. <i>Nature</i> , <b>2000</b> , 408, 313-9	50.4	431
6	A family of rhomboid-like genes: Drosophila rhomboid-1 and roughoid/rhomboid-3 cooperate to activate EGF receptor signaling. <i>Genes and Development</i> , <b>2000</b> , 14, 1651-1663	12.6	137
5	Control of EGF receptor signalling: lessons from fruitflies. <i>Cancer and Metastasis Reviews</i> , <b>1999</b> , 18, 181-201	90.1	50
4	Inhibition of Drosophila EGF receptor activation by the secreted protein Argos. <i>Nature</i> , <b>1995</b> , 376, 699-702	90.4	235
3	ADAM17-triggered TNF signalling protects the ageing Drosophila retina from lipid droplet mediated degeneration		1
2	Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation		1
1	Intercellular Signaling by Rhomboids in Eukaryotes and Prokaryotes	431-442	