

Matthew Freeman

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7377239/matthew-freeman-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	<i>Drosophila</i> rhomboid-1 defines a family of putative intramembrane serine proteases. <i>Cell</i> , 2001 , 107, 173-82	56.2	496
66	Feedback control of intercellular signalling in development. <i>Nature</i> , 2000 , 408, 313-9	50.4	431
65	Mitochondrial membrane remodelling regulated by a conserved rhomboid protease. <i>Nature</i> , 2003 , 423, 537-41	50.4	350
64	Regulated intracellular ligand transport and proteolysis control EGF signal activation in <i>Drosophila</i> . <i>Cell</i> , 2001 , 107, 161-71	56.2	322
63	Tumor necrosis factor signaling requires iRhom2 to promote trafficking and activation of TACE. <i>Science</i> , 2012 , 335, 225-8	33.3	286
62	Inhibition of <i>Drosophila</i> EGF receptor activation by the secreted protein Argos. <i>Nature</i> , 1995 , 376, 699-702	40.4	235
61	Substrate specificity of rhomboid intramembrane proteases is governed by helix-breaking residues in the substrate transmembrane domain. <i>Molecular Cell</i> , 2003 , 11, 1425-34	17.6	213
60	A family of Rhomboid intramembrane proteases activates all <i>Drosophila</i> membrane-tethered EGF ligands. <i>EMBO Journal</i> , 2002 , 21, 4277-86	13	197
59	Functional and evolutionary implications of enhanced genomic analysis of rhomboid intramembrane proteases. <i>Genome Research</i> , 2007 , 17, 1634-46	9.7	179
58	Sequence-specific intramembrane proteolysis: identification of a recognition motif in rhomboid substrates. <i>Molecular Cell</i> , 2009 , 36, 1048-59	17.6	149
57	Mechanism of intramembrane proteolysis investigated with purified rhomboid proteases. <i>EMBO Journal</i> , 2005 , 24, 464-72	13	143
56	A family of rhomboid-like genes: <i>Drosophila</i> rhomboid-1 and roughoid/rhomboid-3 cooperate to activate EGF receptor signaling. <i>Genes and Development</i> , 2000 , 14, 1651-1663	12.6	137
55	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> , 2007 , 104, 1003-8	11.5	131
54	Rhomboid family pseudoproteases use the ER quality control machinery to regulate intercellular signaling. <i>Cell</i> , 2011 , 145, 79-91	56.2	126
53	Conservation of intramembrane proteolytic activity and substrate specificity in prokaryotic and eukaryotic rhomboids. <i>Current Biology</i> , 2002 , 12, 1507-12	6.3	119
52	New lives for old: evolution of pseudoenzyme function illustrated by iRhoms. <i>Nature Reviews Molecular Cell Biology</i> , 2012 , 13, 489-98	48.7	117
51	Rhomboid proteases and their biological functions. <i>Annual Review of Genetics</i> , 2008 , 42, 191-210	14.5	115

50	Normal mitochondrial dynamics requires rhomboid-7 and affects Drosophila lifespan and neuronal function. <i>Current Biology</i> , 2006 , 16, 982-9	6.3	106
49	Notch signalling and the initiation of neural development in the Drosophila eye. <i>Development (Cambridge)</i> , 2001 , 128, 3889-3898	6.6	100
48	Mammalian iRhoms have distinct physiological functions including an essential role in TACE regulation. <i>EMBO Reports</i> , 2013 , 14, 884-90	6.5	96
47	Myosin II regulates complex cellular arrangement and epithelial architecture in Drosophila. <i>Developmental Cell</i> , 2007 , 13, 717-729	10.2	95
46	The rhomboid-like superfamily: molecular mechanisms and biological roles. <i>Annual Review of Cell and Developmental Biology</i> , 2014 , 30, 235-54	12.6	91
45	Mammalian EGF receptor activation by the rhomboid protease RHBDL2. <i>EMBO Reports</i> , 2011 , 12, 421-7	6.5	89
44	The structural basis for catalysis and substrate specificity of a rhomboid protease. <i>EMBO Journal</i> , 2010 , 29, 3797-809	13	89
43	The role of protease activity in ErbB biology. <i>Experimental Cell Research</i> , 2009 , 315, 671-82	4.2	72
42	Phosphorylation of iRhom2 at the plasma membrane controls mammalian TACE-dependent inflammatory and growth factor signalling. <i>ELife</i> , 2017 , 6,	8.9	66
41	Proteolysis within the membrane: rhomboids revealed. <i>Nature Reviews Molecular Cell Biology</i> , 2004 , 5, 188-97	48.7	58
40	Diverse substrate recognition mechanisms for rhomboids; thrombomodulin is cleaved by Mammalian rhomboids. <i>Current Biology</i> , 2004 , 14, 236-41	6.3	54
39	Monocyclic lactams are selective, mechanism-based inhibitors of rhomboid intramembrane proteases. <i>ACS Chemical Biology</i> , 2011 , 6, 325-35	4.9	51
38	Control of EGF receptor signalling: lessons from fruitflies. <i>Cancer and Metastasis Reviews</i> , 1999 , 18, 181-201	20.1	50
37	Cutting proteins within lipid bilayers: rhomboid structure and mechanism. <i>Molecular Cell</i> , 2007 , 28, 930-40	47.6	49
36	An Arabidopsis Rhomboid homolog is an intramembrane protease in plants. <i>FEBS Letters</i> , 2005 , 579, 5723-8	3.8	49
35	Control of ADAM17 activity by regulation of its cellular localisation. <i>Scientific Reports</i> , 2016 , 6, 35067	4.9	46
34	Rhomboid proteases in human disease: Mechanisms and future prospects. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017 , 1864, 2200-2209	4.9	41
33	Rhomboids: 7 years of a new protease family. <i>Seminars in Cell and Developmental Biology</i> , 2009 , 20, 231-9	7.5	35

32	Quantitative proteomics screen identifies a substrate repertoire of rhomboid protease RHBDL2 in human cells and implicates it in epithelial homeostasis. <i>Scientific Reports</i> , 2017 , 7, 7283	4.9	31
31	FRMD8 promotes inflammatory and growth factor signalling by stabilising the iRhom/ADAM17 sheddase complex. <i>ELife</i> , 2018 , 7,	8.9	31
30	Rhomboid intramembrane protease RHBDL4 triggers ER-export and non-canonical secretion of membrane-anchored TGF β <i>Scientific Reports</i> , 2016 , 6, 27342	4.9	29
29	Evidence that Argos is an antagonistic ligand of the EGF receptor. <i>Oncogene</i> , 2000 , 19, 3560-2	9.2	28
28	The molecular, cellular and pathophysiological roles of iRhom pseudoproteases. <i>Open Biology</i> , 2019 , 9, 190003	7	27
27	Structure of rhomboid protease in complex with β -lactam inhibitors defines the S2 cavity. <i>Structure</i> , 2013 , 21, 1051-8	5.2	26
26	Rhomboid family member 2 regulates cytoskeletal stress-associated Keratin 16. <i>Nature Communications</i> , 2017 , 8, 14174	17.4	25
25	Genetic interaction implicates iRhom2 in the regulation of EGF receptor signalling in mice. <i>Biology Open</i> , 2014 , 3, 1151-7	2.2	25
24	Substrates and physiological functions of secretase rhomboid proteases. <i>Seminars in Cell and Developmental Biology</i> , 2016 , 60, 10-18	7.5	24
23	The EGFR ligands Spitz and Keren act cooperatively in the Drosophila eye. <i>Developmental Biology</i> , 2007 , 307, 105-13	3.1	23
22	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> , 2018 , 38,	4.8	16
21	Morphogen gradients, in theory. <i>Developmental Cell</i> , 2002 , 2, 689-90	10.2	16
20	A fly's eye view of EGF receptor signalling. <i>EMBO Journal</i> , 2002 , 21, 6635-42	13	15
19	Rhomboids, signalling and cell biology. <i>Biochemical Society Transactions</i> , 2016 , 44, 945-50	5.1	14
18	iRhom2-mediated proinflammatory signalling regulates heart repair following myocardial infarction. <i>JCI Insight</i> , 2018 , 3,	9.9	10
17	Intramembrane proteolysis by rhomboids: catalytic mechanisms and regulatory principles. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 851-8	8.1	9
16	ADAM17-triggered TNF signalling protects the ageing Drosophila retina from lipid droplet-mediated degeneration. <i>EMBO Journal</i> , 2020 , 39, e104415	13	8
15	Bacterial rhomboid proteases mediate quality control of orphan membrane proteins. <i>EMBO Journal</i> , 2020 , 39, e102922	13	7

14	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> , 2019 , 294, 11486-11497	5.4	5
13	A genome-wide association study in mice reveals a role for Rhbdf2 in skeletal homeostasis. <i>Scientific Reports</i> , 2020 , 10, 3286	4.9	5
12	Eye development: stable cell fate decisions in insect colour vision. <i>Current Biology</i> , 2005 , 15, R924-6	6.3	5
11	Rhomboids. <i>Current Biology</i> , 2003 , 13, R586	6.3	4
10	Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation. <i>Molecular Cell</i> , 2021 , 81, 4784-4798.e7	17.6	2
9	Author response: Phosphorylation of iRhom2 at the plasma membrane controls mammalian TACE-dependent inflammatory and growth factor signalling 2017 ,		2
8	Author response: FRMD8 promotes inflammatory and growth factor signalling by stabilising the iRhom/ADAM17 sheddase complex 2018 ,		2
7	The iRhom homology domain is indispensable for ADAM17-mediated TNF α and EGF receptor ligand release. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 5015-5040	10.3	2
6	ADAM17-triggered TNF signalling protects the ageing Drosophila retina from lipid droplet mediated degeneration		1
5	Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation		1
4	iRhom pseudoproteases regulate ER stress-induced cell death through IP receptors and BCL-2.. <i>Nature Communications</i> , 2022 , 13, 1257	17.4	1
3	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> , 2022 , 101935	5.4	0
2	Intercellular Signaling by Rhomboids in Eukaryotes and Prokaryotes	431-442	
1	KOMPEITO, an Atypical Arabidopsis Rhomboid-Related Gene, Is Required for Callose Accumulation and Pollen Wall Development. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5959	6.3	