

Aymelt Itzen

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,145
citations

186265

28
h-index

168389

53
g-index

89
all docs

89
docs citations

89
times ranked

3326
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Legionella</i> Effector Protein DrrA AMPylates the Membrane Traffic Regulator Rab1b. <i>Science</i> , 2010, 329, 946-949.	12.6	319
2	Rab GTPase-Myo5B complexes control membrane recycling and epithelial polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2789-2794.	7.1	168
3	RabGEFs are a major determinant for specific Rab membrane targeting. <i>Journal of Cell Biology</i> , 2013, 200, 287-300.	5.2	166
4	RabGDI Displacement by DrrA from <i>Legionella</i> Is a Consequence of Its Guanine Nucleotide Exchange Activity. <i>Molecular Cell</i> , 2009, 36, 1060-1072.	9.7	160
5	Phosphoproteomic screening identifies Rab GTPases as novel downstream targets of PINK1. <i>EMBO Journal</i> , 2015, 34, 2840-2861.	7.8	160
6	Reversible phosphocholination of Rab proteins by <i>Legionella pneumophila</i> effector proteins. <i>EMBO Journal</i> , 2012, 31, 1774-1784.	7.8	101
7	Activation of Ran GTPase by a <i>Legionella</i> Effector Promotes Microtubule Polymerization, Pathogen Vacuole Motility and Infection. <i>PLoS Pathogens</i> , 2013, 9, e1003598.	4.7	94
8	High-affinity binding of phosphatidylinositol 4-phosphate by <i>Legionella pneumophila</i> DrrA. <i>EMBO Reports</i> , 2010, 11, 598-604.	4.5	92
9	Nucleotide exchange via local protein unfolding structure of Rab8 in complex with MSS4. <i>EMBO Journal</i> , 2006, 25, 1445-1455.	7.8	89
10	GTPases involved in vesicular trafficking: Structures and mechanisms. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 48-56.	5.0	86
11	Î±-Synuclein interacts with the switch region of Rab8a in a Ser129 phosphorylation-dependent manner. <i>Neurobiology of Disease</i> , 2014, 70, 149-161.	4.4	84
12	A structural basis for Lowe syndrome caused by mutations in the Rab-binding domain of OCRL1. <i>EMBO Journal</i> , 2011, 30, 1659-1670.	7.8	80
13	The role of the hypervariable C-terminal domain in Rab GTPases membrane targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2572-2577.	7.1	79
14	Direct Targeting of Rab GTPase-Effector Interactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2498-2503.	13.8	79
15	Protein LidA from <i>Legionella</i> is a Rab GTPase supereffector. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17945-17950.	7.1	72
16	Posttranslational modifications of Rab proteins cause effective displacement of GDP dissociation inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5621-5626.	7.1	68
17	Diversity and plasticity in Rab GTPase nucleotide release mechanism has consequences for Rab activation and inactivation. <i>ELife</i> , 2014, 3, e01623.	6.0	63
18	Adenylation: renaissance of a forgotten post-translational modification. <i>Trends in Biochemical Sciences</i> , 2011, 36, 221-228.	7.5	60

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19	Mechanism of Rab1b deactivation by the <i>Legionella pneumophila</i> GAP LepB. <i>EMBO Reports</i> , 2013, 14, 199-205.	4.5	60
20	Catalytic mechanism of a mammalian Rab-RabGAP complex in atomic detail. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21348-21353.	7.1	56
21	Proximity-Triggered Covalent Stabilization of Low-Affinity Protein Complexes In Vitro and In Vivo. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15737-15741.	13.8	56
22	Intermediates in the Guanine Nucleotide Exchange Reaction of Rab8 Protein Catalyzed by Guanine Nucleotide Exchange Factors Rabin8 and GRAB. <i>Journal of Biological Chemistry</i> , 2013, 288, 32466-32474.	3.4	55
23	Sec2 is a Highly Efficient Exchange Factor for the Rab Protein Sec4. <i>Journal of Molecular Biology</i> , 2007, 365, 1359-1367.	4.2	52
24	bMERB domains are bivalent Rab8 family effectors evolved by gene duplication. <i>ELife</i> , 2016, 5, .	6.0	51
25	The <i>Legionella longbeachae</i> Icm/Dot Substrate SidC Selectively Binds Phosphatidylinositol 4-Phosphate with Nanomolar Affinity and Promotes Pathogen Vacuole-Endoplasmic Reticulum Interactions. <i>Infection and Immunity</i> , 2014, 82, 4021-4033.	2.2	47
26	One-Pot Dual-Labeling of a Protein by Two Chemoselective Reactions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8287-8290.	13.8	40
27	Covalent Protein Labeling by Enzymatic Phosphocholination. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10327-10330.	13.8	37
28	The protease GtgE from <i>Salmonella</i> exclusively targets inactive Rab GTPases. <i>Nature Communications</i> , 2018, 9, 44.	12.8	33
29	Membrane extraction of Rab proteins by GDP dissociation inhibitor characterized using attenuated total reflection infrared spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13380-13385.	7.1	31
30	Modulation of Small GTPases by <i>Legionella</i> . <i>Current Topics in Microbiology and Immunology</i> , 2013, 376, 117-133.	1.1	29
31	Covalent Coercion by <i>Legionella pneumophila</i> . <i>Cell Host and Microbe</i> , 2011, 10, 89-91.	11.0	28
32	Characterization of Enzymes from <i>Legionella pneumophila</i> Involved in Reversible Adenylation of Rab1 Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 35036-35046.	3.4	28
33	Chaperone-assisted production of active human Rab8A GTPase in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2009, 65, 190-195.	1.3	27
34	Molecular Perspectives on Protein Adenylation. <i>ACS Chemical Biology</i> , 2015, 10, 12-21.	3.4	27
35	PINK1-dependent phosphorylation of Serine111 within the SF3 motif of Rab GTPases impairs effector interactions and LRRK2-mediated phosphorylation at Threonine72. <i>Biochemical Journal</i> , 2020, 477, 1651-1668.	3.7	26
36	The trimer to monomer transition of Tumor Necrosis Factor-Alpha is a dynamic process that is significantly altered by therapeutic antibodies. <i>Scientific Reports</i> , 2020, 10, 9265.	3.3	25

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37	Crystal structure of the Rab binding domain of OCRL1 in complex with Rab8 and functional implications of the OCRL1/Rab8 module for Lowe syndrome. <i>Small GTPases</i> , 2012, 3, 107-110.	1.6	22
38	Efficient Synthesis and Applications of Peptides containing Adenylylated Tyrosine Residues. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9200-9204.	13.8	21
39	Locking GTPases covalently in their functional states. <i>Nature Communications</i> , 2015, 6, 7773.	12.8	21
40	Identification of targets of AMPylating Fic enzymes by co-substrate-mediated covalent capture. <i>Nature Chemistry</i> , 2020, 12, 732-739.	13.6	21
41	Identification and characterisation of novel Mss4-binding Rab GTPases. <i>Biological Chemistry</i> , 2011, 392, 239-48.	2.5	19
42	The structure of the N-terminal domain of the Legionella protein SidC. <i>Journal of Structural Biology</i> , 2014, 186, 188-194.	2.8	17
43	Monoclonal Anti-AMP Antibodies Are Sensitive and Valuable Tools for Detecting Patterns of AMPylation. <i>IScience</i> , 2020, 23, 101800.	4.1	17
44	Conformational control of small GTPases by AMPylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5772-5781.	7.1	16
45	Specificity of AMPylation of the human chaperone BiP is mediated by TPR motifs of FICD. <i>Nature Communications</i> , 2021, 12, 2426.	12.8	15
46	Exploring Adenylylation and Phosphocholination as Post-translational Modifications. <i>ChemBioChem</i> , 2014, 15, 19-26.	2.6	14
47	Proximitätsvermittelte kovalente Stabilisierung niedrigaffiner Proteinkomplexe in vitro und in vivo. <i>Angewandte Chemie</i> , 2017, 129, 15943-15947.	2.0	14
48	Rab1-AMPylation by Legionella DrrA is allosterically activated by Rab1. <i>Nature Communications</i> , 2021, 12, 460.	12.8	14
49	The versatile Legionella effector protein DrrA. <i>Communicative and Integrative Biology</i> , 2011, 4, 72-74.	1.4	13
50	Adenylylation of Tyr77 stabilizes Rab1b GTPase in an active state: A molecular dynamics simulation analysis. <i>Scientific Reports</i> , 2016, 6, 19896.	3.3	13
51	A pull-down procedure for the identification of unknown GEFs for small GTPases. <i>Small GTPases</i> , 2016, 7, 93-106.	1.6	12
52	Proteolysis of Rab32 by Salmonella GtgE induces an inactive GTPase conformation. <i>IScience</i> , 2021, 24, 101940.	4.1	12
53	Legionella effector AnkX displaces the switch II region for Rab1b phosphocholination. <i>Science Advances</i> , 2020, 6, eaaz8041.	10.3	12
54	Protein-DNA Arrays as Tools for Detection of Protein-Protein Interactions by Mass Spectrometry. <i>ChemBioChem</i> , 2013, 14, 92-99.	2.6	11

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55	Divergent Evolution of <i>Legionella</i> RCC1 Repeat Effectors Defines the Range of Ran GTPase Cycle Targets. <i>MBio</i> , 2020, 11, .	4.1	11
56	Key Determinants of Rab Specificity. <i>Structure</i> , 2008, 16, 1437-1439.	3.3	10
57	Reaction Mechanism of Adenylyltransferase DrrA from <i>Legionella pneumophila</i> Elucidated by Time-Resolved Fourier Transform Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 9338-9345.	13.7	10
58	The versatile <i>Legionella</i> effector protein DrrA. <i>Communicative and Integrative Biology</i> , 2011, 4, 72-4.	1.4	9
59	Phosphorylation of Ser111 in Rab8a Modulates Rabin8-Dependent Activation by Perturbation of Side Chain Interaction Networks. <i>Biochemistry</i> , 2019, 58, 3546-3554.	2.5	8
60	Exploring the Substrate Scope of the Bacterial Phosphocholine Transferase AnkX for Versatile Protein Functionalization. <i>ChemBioChem</i> , 2019, 20, 2336-2340.	2.6	7
61	Nucleotide exchange factor Rab3GEP requires DENN and non-DENN elements for activation and targeting of Rab27a. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	6
62	Validation of the Slow Off-Rate Kinetics of Sirtuin-Rearranging Ligands (SirReals) by Means of Label-Free Electrically Switchable Nanolever Technology. <i>ChemBioChem</i> , 2020, 21, 1161-1166.	2.6	6
63	Revisiting AMPylation through the lens of Fic enzymes. <i>Trends in Microbiology</i> , 2022, 30, 350-363.	7.7	6
64	Specific localization of Rabs at intracellular membranes. <i>Biochemical Society Transactions</i> , 2012, 40, 1421-1425.	3.4	5
65	Atomic resolution structure of EhpR: phenazine resistance in <i>Enterobacter agglomerans</i> Eh1087 follows principles of bleomycin/mitomycin C resistance in other bacteria. <i>BMC Structural Biology</i> , 2011, 11, 33.	2.3	4
66	Current Advances in Covalent Stabilization of Macromolecular Complexes for Structural Biology. <i>Bioconjugate Chemistry</i> , 2021, 32, 879-890.	3.6	4
67	SopD from <i>Salmonella</i> specifically inactivates Rab8. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2021, 1869, 140661.	2.3	4
68	Purification, crystallization and preliminary X-ray crystallographic analysis of mammalian MSS4-Rab8 GTPase protein complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 113-116.	0.7	3
69	Prenylation of RabGTPases, Their Delivery to Membranes, and Rab Recycling. , 2014, , 3-16.		2
70	Biochemie 2016: Posttranslationale Proteinmodifikationen bei Krankheiten. <i>Nachrichten Aus Der Chemie</i> , 2017, 65, 320-322.	0.0	0