

Dhirendra Kumar Simanshu

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,954
citations

218381

26
h-index

197535

49
g-index

57
all docs

57
docs citations

57
times ranked

6913
citing authors

#	ARTICLE	IF	CITATIONS
1	RAS Proteins and Their Regulators in Human Disease. <i>Cell</i> , 2017, 170, 17-33.	13.5	1,262
2	Dicer recognizes the 5' end of RNA for efficient and accurate processing. <i>Nature</i> , 2011, 475, 201-205.	13.7	444
3	Uridylation by TUT4 and TUT7 Marks mRNA for Degradation. <i>Cell</i> , 2014, 159, 1365-1376.	13.5	243
4	Non-vesicular trafficking by a ceramide-1-phosphate transfer protein regulates eicosanoids. <i>Nature</i> , 2013, 500, 463-467.	13.7	159
5	Structural basis of recognition of farnesylated and methylated KRAS4b by PDE1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6766-E6775.	3.3	145
6	Atypical KRASG12R Mutant Is Impaired in PI3K Signaling and Macropinocytosis in Pancreatic Cancer. <i>Cancer Discovery</i> , 2020, 10, 104-123.	7.7	131
7	A Phosphate-Binding Pocket within the Platform-PAZ-Connector Helix Cassette of Human Dicer. <i>Molecular Cell</i> , 2014, 53, 606-616.	4.5	111
8	A dual flip-out mechanism for 5mC recognition by the <i>Arabidopsis</i> SUVH5 SRA domain and its impact on DNA methylation and H3K9 dimethylation in vivo. <i>Genes and Development</i> , 2011, 25, 137-152.	2.7	108
9	KRAS interaction with RAF1 RAS-binding domain and cysteine-rich domain provides insights into RAS-mediated RAF activation. <i>Nature Communications</i> , 2021, 12, 1176.	5.8	107
10	TUT7 controls the fate of precursor microRNAs by using three different uridylation mechanisms. <i>EMBO Journal</i> , 2015, 34, 1801-1815.	3.5	97
11	Structural basis for piRNA 2'-O-methylated 3'-end recognition by Piwi PAZ (Piwi/Argonaute/Zwille) domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 903-910.	3.3	91
12	INVOLVED IN DE NOVO 2-containing complex involved in RNA-directed DNA methylation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8374-8381.	3.3	85
13	KRAS G13D sensitivity to neurofibromin-mediated GTP hydrolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22122-22131.	3.3	85
14	Structural Basis of mRNA Recognition and Cleavage by Toxin MazF and Its Regulation by Antitoxin MazE in <i>Bacillus subtilis</i> . <i>Molecular Cell</i> , 2013, 52, 447-458.	4.5	77
15	<i>Arabidopsis</i> Accelerated Cell Death 11, ACD11, Is a Ceramide-1-Phosphate Transfer Protein and Intermediary Regulator of Phytoceramide Levels. <i>Cell Reports</i> , 2014, 6, 388-399.	2.9	69
16	RIT1 oncoproteins escape LZTR1-mediated proteolysis. <i>Science</i> , 2019, 363, 1226-1230.	6.0	66
17	Multimeric assembly and biochemical characterization of the Traxin-translin endonuclease complex. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 658-664.	3.6	60
18	Structures of N-terminally processed KRAS provide insight into the role of N-acetylation. <i>Scientific Reports</i> , 2019, 9, 10512.	1.6	47

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19	The small molecule BI-2852 induces a nonfunctional dimer of KRAS. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3363-3364.	3.3	46
20	Machine learning-driven multiscale modeling reveals lipid-dependent dynamics of RAS signaling proteins. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	44
21	Structural Insights into the SPRED1-Neurofibromin-KRAS Complex and Disruption of SPRED1-Neurofibromin Interaction by Oncogenic EGFR. Cell Reports, 2020, 32, 107909.	2.9	41
22	Crystal Structures of Salmonella typhimurium Biodegradative Threonine Deaminase and Its Complex with CMP Provide Structural Insights into Ligand-induced Oligomerization and Enzyme Activation. Journal of Biological Chemistry, 2006, 281, 39630-39641.	1.6	40
23	Uncovering a membrane-distal conformation of KRAS available to recruit RAF to the plasma membrane. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24258-24268.	3.3	34
24	Structural basis of phosphatidylcholine recognition by the C2 domain of cytosolic phospholipase A2. ELife, 2019, 8, .	2.8	31
25	Sphingolipid transfer proteins defined by the GLTP-fold. Quarterly Reviews of Biophysics, 2015, 48, 281-322.	2.4	30
26	Crystal Structures of ADP and AMPPNP-bound Propionate Kinase (TdcD) from Salmonella typhimurium: Comparison with Members of Acetate and Sugar Kinase/Heat Shock Cognate 70/Actin Superfamily. Journal of Molecular Biology, 2005, 352, 876-892.	2.0	29
27	Structure and function of enzymes involved in the anaerobic degradation of L-threonine to propionate. Journal of Biosciences, 2007, 32, 1195-1206.	0.5	23
28	Membrane interactions of the globular domain and the hypervariable region of KRAS4b define its unique diffusion behavior. ELife, 2020, 9, .	2.8	23
29	A Structure is Worth a Thousand Words: New Insights for RAS and RAF Regulation. Cancer Discovery, 2022, 12, 899-912.	7.7	23
30	Structural Determination and Tryptophan Fluorescence of Heterokaryon Incompatibility C2 Protein (HET-C2), a Fungal Glycolipid Transfer Protein (GLTP), Provide Novel Insights into Glycolipid Specificity and Membrane Interaction by the GLTP Fold. Journal of Biological Chemistry, 2010, 285, 13066-13078.	1.6	22
31	RAS interaction with Sin1 is dispensable for mTORC2 assembly and activity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	21
32	The glycolipid transfer protein (GLTP) domain of phosphoinositol 4-phosphate adaptor protein-2 (FAPP2): Structure drives preference for simple neutral glycosphingolipids. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 417-427.	1.2	20
33	Phosphatidylserine Stimulates Ceramide 1-Phosphate (C1P) Intermembrane Transfer by C1P Transfer Proteins. Journal of Biological Chemistry, 2017, 292, 2531-2541.	1.6	20
34	Crystal structure of Salmonella typhimurium 2-methylisocitrate lyase (PrpB) and its complex with pyruvate and Mg ²⁺ . Biochemical and Biophysical Research Communications, 2003, 311, 193-201.	1.0	17
35	Systematic study on crystal-contact engineering of diphthine synthase: influence of mutations at crystal-packing regions on X-ray diffraction quality. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 1020-1033.	2.5	17
36	Conformational Folding and Stability of the HET-C2 Glycolipid Transfer Protein Fold: Does a Molten Globule-like State Regulate Activity?. Biochemistry, 2011, 50, 5163-5171.	1.2	14

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37	Insights into the Cross Talk between Effector and Allosteric Lobes of KRAS from Methyl Conformational Dynamics. <i>Journal of the American Chemical Society</i> , 2022, 144, 4196-4205.	6.6	14
38	Crystal structures of <i>Salmonella typhimurium</i> propionate kinase and its complex with Ap ₄ A: Evidence for a novel Ap ₄ A synthetic activity. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1379-1388.	1.5	9
39	Structural analyses of 4-phosphate adaptor protein 2 yield mechanistic insights into sphingolipid recognition by the glycolipid transfer protein family. <i>Journal of Biological Chemistry</i> , 2018, 293, 16709-16723.	1.6	9
40	Exploring CRD mobility during RAS/RAF engagement at the membrane. <i>Biophysical Journal</i> , 2022, 121, 3630-3650.	0.2	9
41	RAS internal tandem duplication disrupts GTPase-activating protein (GAP) binding to activate oncogenic signaling. <i>Journal of Biological Chemistry</i> , 2020, 295, 9335-9348.	1.6	8
42	Mechanistic features of <i>Salmonella typhimurium</i> propionate kinase (TdcD): Insights from kinetic and crystallographic studies. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 2036-2044.	1.1	6
43	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of propionate kinase (TdcD) from <i>Salmonella typhimurium</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 52-55.	0.7	4
44	Structure of the putative mutarotase YeaD from <i>Salmonella typhimurium</i> : structural comparison with galactose mutarotases. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 197-205.	2.5	4
45	Cloning, expression, purification and preliminary X-ray crystallographic studies of 2-methylisocitrate lyase from <i>Salmonella typhimurium</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 2159-2161.	2.5	2
46	Functional evaluation of tryptophans in glycolipid binding and membrane interaction by HET-C2, a fungal glycolipid transfer protein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1069-1076.	1.4	2
47	Crystallization and preliminary X-ray crystallographic analysis of biodegradative threonine deaminase (TdcB) from <i>Salmonella typhimurium</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 275-278.	0.7	1
48	Nonvesicular Trafficking of Ceramide-1-Phosphate by a Lipid Transfer Protein that Regulates Eicosanoid Production. <i>Biophysical Journal</i> , 2014, 106, 303a.	0.2	1
49	Single-Molecule View on the Duality of Microrna Uridylation. <i>Biophysical Journal</i> , 2014, 106, 698a.	0.2	0
50	Purification of Cytosolic Phospholipase A2 ^C C2-domain after Expression in Soluble Form in <i>Escherichia coli</i> . <i>Bio-protocol</i> , 2021, 11, e3906.	0.2	0
51	What makes Phosphatidylserine a Novel Regulator of Ceramide-1-Phosphate Transfer Proteins?. <i>FASEB Journal</i> , 2015, 29, 886.23.	0.2	0