

# Dhirendra Kumar Simanshu

## List of Publications by Year in descending order

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51  
papers

3,954  
citations

218677

26  
h-index

197818

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.	28.9	1,262
2	Dicer recognizes the 5' end of RNA for efficient and accurate processing. <i>Nature</i> , 2011, 475, 201-205.	27.8	444
3	Uridylation by TUT4 and TUT7 Marks mRNA for Degradation. <i>Cell</i> , 2014, 159, 1365-1376.	28.9	243
4	Non-vesicular trafficking by a ceramide-1-phosphate transfer protein regulates eicosanoids. <i>Nature</i> , 2013, 500, 463-467.	27.8	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.	7.1	145
6	Atypical KRASG12R Mutant Is Impaired in PI3K Signaling and Macropinocytosis in Pancreatic Cancer. <i>Cancer Discovery</i> , 2020, 10, 104-123.	9.4	131
7	A Phosphate-Binding Pocket within the Platform-PAZ-Connector Helix Cassette of Human Dicer. <i>Molecular Cell</i> , 2014, 53, 606-616.	9.7	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.	5.9	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.	12.8	107
10	TUT7 controls the fate of precursor microRNAs by using three different uridylation mechanisms. <i>EMBO Journal</i> , 2015, 34, 1801-1815.	7.8	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.	7.1	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.	7.1	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.	7.1	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.	9.7	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.	6.4	69
16	RIT1 oncoproteins escape LZTR1-mediated proteolysis. <i>Science</i> , 2019, 363, 1226-1230.	12.6	66
17	Multimeric assembly and biochemical characterization of the Traxin translin endonuclease complex. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 658-664.	8.2	60
18	Structures of N-terminally processed KRAS provide insight into the role of N-acetylation. <i>Scientific Reports</i> , 2019, 9, 10512.	3.3	47

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19	The small molecule BI-2852 induces a nonfunctional dimer of KRAS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3363-3364.	7.1	46
20	Machine learning-driven multiscale modeling reveals lipid-dependent dynamics of RAS signaling proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	44
21	Structural Insights into the SPRED1-Neurofibromin-KRAS Complex and Disruption of SPRED1-Neurofibromin Interaction by Oncogenic EGFR. <i>Cell Reports</i> , 2020, 32, 107909.	6.4	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. <i>Journal of Biological Chemistry</i> , 2006, 281, 39630-39641.	3.4	40
23	Uncovering a membrane-distal conformation of KRAS available to recruit RAF to the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24258-24268.	7.1	34
24	Structural basis of phosphatidylcholine recognition by the C2 domain of cytosolic phospholipase A2. <i>ELife</i> , 2019, 8, .	6.0	31
25	Sphingolipid transfer proteins defined by the GLTP-fold. <i>Quarterly Reviews of Biophysics</i> , 2015, 48, 281-322.	5.7	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. <i>Journal of Molecular Biology</i> , 2005, 352, 876-892.	4.2	29
27	Structure and function of enzymes involved in the anaerobic degradation of L-threonine to propionate. <i>Journal of Biosciences</i> , 2007, 32, 1195-1206.	1.1	23
28	Membrane interactions of the globular domain and the hypervariable region of KRAS4b define its unique diffusion behavior. <i>ELife</i> , 2020, 9, .	6.0	23
29	A Structure is Worth a Thousand Words: New Insights for RAS and RAF Regulation. <i>Cancer Discovery</i> , 2022, 12, 899-912.	9.4	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. <i>Journal of Biological Chemistry</i> , 2010, 285, 13066-13078.	3.4	22
31	RAS interaction with Sin1 is dispensable for mTORC2 assembly and activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
32	The glycolipid transfer protein (GLTP) domain of phosphoinositol 4-phosphate adaptor protein-2 (FAPP2): Structure drives preference for simple neutral glycosphingolipids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 417-427.	2.4	20
33	Phosphatidylserine Stimulates Ceramide 1-Phosphate (C1P) Intermembrane Transfer by C1P Transfer Proteins. <i>Journal of Biological Chemistry</i> , 2017, 292, 2531-2541.	3.4	20
34	Crystal structure of Salmonella typhimurium 2-methylisocitrate lyase (PrpB) and its complex with pyruvate and Mg <sup>2+</sup> . <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 193-201.	2.1	17
35	Systematic study on crystal-contact engineering of diphthine synthase: influence of mutations at crystal-packing regions on X-ray diffraction quality. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 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?. <i>Biochemistry</i> , 2011, 50, 5163-5171.	2.5	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.	13.7	14
38	Crystal structures of <i>Salmonella typhimurium</i> propionate kinase and its complex with Ap <sub>4</sub> A: Evidence for a novel Ap <sub>4</sub> A synthetic activity. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1379-1388.	2.6	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.	3.4	9
40	Exploring CRD mobility during RAS/RAF engagement at the membrane. <i>Biophysical Journal</i> , 2022, 121, 3630-3650.	0.5	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.	3.4	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.	2.3	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.	2.6	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.	0.5	1
49	Single-Molecule View on the Duality of Microrna Uridylation. <i>Biophysical Journal</i> , 2014, 106, 698a.	0.5	0
50	Purification of Cytosolic Phospholipase A2 <sup>C</sup> C2-domain after Expression in Soluble Form in <i>Escherichia coli</i> . <i>Bio-protocol</i> , 2021, 11, e3906.	0.4	0
51	What makes Phosphatidylserine a Novel Regulator of Ceramide-1-Phosphate Transfer Proteins?. <i>FASEB Journal</i> , 2015, 29, 886.23.	0.5	0