

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 | 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, . | 3.3 | 44 |
| 2 | A Structure is Worth a Thousand Words: New Insights for RAS and RAF Regulation. <i>Cancer Discovery</i> , 2022, 12, 899-912. | 7.7 | 23 |
| 3 | 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 |
| 4 | Exploring CRD mobility during RAS/RAF engagement at the membrane. <i>Biophysical Journal</i> , 2022, 121, 3630-3650. | 0.2 | 9 |
| 5 | Purification of Cytosolic Phospholipase A2± C2-domain after Expression in Soluble Form in Escherichia coli. <i>Bio-protocol</i> , 2021, 11, e3906. | 0.2 | 0 |
| 6 | 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 |
| 7 | 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, . | 3.3 | 21 |
| 8 | Atypical KRASG12R Mutant Is Impaired in PI3K Signaling and Macropinocytosis in Pancreatic Cancer. <i>Cancer Discovery</i> , 2020, 10, 104-123. | 7.7 | 131 |
| 9 | Structural Insights into the SPRED1-Neurofibromin-KRAS Complex and Disruption of SPRED1-Neurofibromin Interaction by Oncogenic EGFR. <i>Cell Reports</i> , 2020, 32, 107909. | 2.9 | 41 |
| 10 | 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. | 3.3 | 34 |
| 11 | 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 |
| 12 | 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. | 3.3 | 46 |
| 13 | Membrane interactions of the globular domain and the hypervariable region of KRAS4b define its unique diffusion behavior. <i>ELife</i> , 2020, 9, . | 2.8 | 23 |
| 14 | Structures of N-terminally processed KRAS provide insight into the role of N-acetylation. <i>Scientific Reports</i> , 2019, 9, 10512. | 1.6 | 47 |
| 15 | 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 |
| 16 | RIT1 oncoproteins escape LZTR1-mediated proteolysis. <i>Science</i> , 2019, 363, 1226-1230. | 6.0 | 66 |
| 17 | Structural basis of phosphatidylcholine recognition by the C2-domain of cytosolic phospholipase A2±. <i>ELife</i> , 2019, 8, . | 2.8 | 31 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | Phosphatidylserine Stimulates Ceramide 1-Phosphate (C1P) Intermembrane Transfer by C1P Transfer Proteins. <i>Journal of Biological Chemistry</i> , 2017, 292, 2531-2541. | 1.6 | 20 |
| 21 | RAS Proteins and Their Regulators in Human Disease. <i>Cell</i> , 2017, 170, 17-33. | 13.5 | 1,262 |
| 22 | Structural basis of recognition of farnesylated and methylated KRAS4b by PDE1 γ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6766-E6775. | 3.3 | 145 |
| 23 | TUT7 controls the fate of precursor microRNAs by using three different uridylation mechanisms. <i>EMBO Journal</i> , 2015, 34, 1801-1815. | 3.5 | 97 |
| 24 | Sphingolipid transfer proteins defined by the GLTP-fold. <i>Quarterly Reviews of Biophysics</i> , 2015, 48, 281-322. | 2.4 | 30 |
| 25 | What makes Phosphatidylserine a Novel Regulator of Ceramide-1-Phosphate Transfer Proteins?. <i>FASEB Journal</i> , 2015, 29, 886.23. | 0.2 | 0 |
| 26 | Uridylation by TUT4 and TUT7 Marks mRNA for Degradation. <i>Cell</i> , 2014, 159, 1365-1376. | 13.5 | 243 |
| 27 | Arabidopsis 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | Single-Molecule View on the Duality of MicroRNA Uridylation. <i>Biophysical Journal</i> , 2014, 106, 698a. | 0.2 | 0 |
| 31 | Non-vesicular trafficking by a ceramide-1-phosphate transfer protein regulates eicosanoids. <i>Nature</i> , 2013, 500, 463-467. | 13.7 | 159 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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. | 1.2 | 20 |
| 35 | 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 |
| 36 | Dicer recognizes the 5' end of RNA for efficient and accurate processing. <i>Nature</i> , 2011, 475, 201-205. | 13.7 | 444 |

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|----|---|-----|-----------|
| 37 | 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. | 1.2 | 14 |
| 38 | Multimeric assembly and biochemical characterization of the Traxâ€“translin endonuclease complex. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 658-664. | 3.6 | 60 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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. | 1.6 | 22 |
| 42 | 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 |
| 43 | 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 |
| 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 | Structure and function of enzymes involved in the anaerobic degradation of L-threonine to propionate. <i>Journal of Biosciences</i> , 2007, 32, 1195-1206. | 0.5 | 23 |
| 46 | 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 |
| 47 | Crystal Structures of <i>Salmonella typhimurium</i> 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. | 1.6 | 40 |
| 48 | 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 |
| 49 | Crystal Structures of ADP and AMPPNP-bound Propionate Kinase (TdcD) from <i>Salmonella typhimurium</i> : Comparison with Members of Acetate and Sugar Kinase/Heat Shock Cognate 70/Actin Superfamily. <i>Journal of Molecular Biology</i> , 2005, 352, 876-892. | 2.0 | 29 |
| 50 | Crystal structure of <i>Salmonella typhimurium</i> 2-methylisocitrate lyase (PrpB) and its complex with pyruvate and Mg ²⁺ . <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 193-201. | 1.0 | 17 |
| 51 | 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 |