

Frank Sicheiri

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

5,576
citations

147801

31
h-index

138484

58
g-index

66
all docs

66
docs citations

66
times ranked

9098
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Panel of Engineered Ubiquitin Variants Targeting the Family of Human Ubiquitin Interacting Motifs. ACS Chemical Biology, 2022, 17, 941-956. | 3.4 | 5 |
| 2 | A suite of in vitro and in vivo assays for monitoring the activity of the pseudokinase Bud32. Methods in Enzymology, 2022, 667, 729-773. | 1.0 | 0 |
| 3 | First-class Deubiquitylase Inhibitors Reveal New Enzyme Conformations. FASEB Journal, 2022, 36, . | 0.5 | 0 |
| 4 | Bora phosphorylation substitutes in trans for T-loop phosphorylation in Aurora A to promote mitotic entry. Nature Communications, 2021, 12, 1899. | 12.8 | 18 |
| 5 | Aurora A kinase activation: Different means to different ends. Journal of Cell Biology, 2021, 220, . | 5.2 | 19 |
| 6 | Comprehensive Assessment of the Relationship Between Site ² Specificity and Helix \pm 2 in the Erbin PDZ Domain. Journal of Molecular Biology, 2021, 433, 167115. | 4.2 | 0 |
| 7 | Bipartite binding of the N terminus of Skp2 to cyclin A. Structure, 2021, 29, 975-988.e5. | 3.3 | 2 |
| 8 | The structural and functional workings of KEOPS. Nucleic Acids Research, 2021, 49, 10818-10834. | 14.5 | 23 |
| 9 | Identification and optimization of molecular glue compounds that inhibit a noncovalent E2 enzyme-ubiquitin complex. Science Advances, 2021, 7, eabi5797. | 10.3 | 17 |
| 10 | Structural and Functional Analysis of Ubiquitin-based Inhibitors That Target the Backsides of E2 Enzymes. Journal of Molecular Biology, 2020, 432, 952-966. | 4.2 | 22 |
| 11 | Comprehensive analysis of all evolutionary paths between two divergent PDZ domain specificities. Protein Science, 2020, 29, 433-442. | 7.6 | 17 |
| 12 | Persistence of serum and saliva antibody responses to SARS-CoV-2 spike antigens in COVID-19 patients. Science Immunology, 2020, 5, . | 11.9 | 714 |
| 13 | A phenolic small molecule inhibitor of RNase L prevents cell death from ADAR1 deficiency. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24802-24812. | 7.1 | 17 |
| 14 | Functional characterization of a PROTAC directed against BRAF mutant V600E. Nature Chemical Biology, 2020, 16, 1170-1178. | 8.0 | 80 |
| 15 | A substrate binding model for the KEOPS tRNA modifying complex. Nature Communications, 2020, 11, 6233. | 12.8 | 21 |
| 16 | Structural and Functional Characterization of Ubiquitin Variant Inhibitors of USP15. Structure, 2019, 27, 590-605.e5. | 3.3 | 47 |
| 17 | Rigidification Dramatically Improves Inhibitor Selectivity for RAF Kinases. ACS Medicinal Chemistry Letters, 2019, 10, 1074-1080. | 2.8 | 10 |
| 18 | FAM105A/OTULINL Is a Pseudodeubiquitinase of the OTU-Class that Localizes to the ER Membrane. Structure, 2019, 27, 1000-1012.e6. | 3.3 | 10 |

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|----|--|------|-----------|
| 19 | The ubiquitin interacting motifs of USP37 act on the proximal Ub of a di-Ub chain to enhance catalytic efficiency. <i>Scientific Reports</i> , 2019, 9, 4119. | 3.3 | 11 |
| 20 | Dimerization of a ubiquitin variant leads to high affinity interactions with a ubiquitin interacting motif. <i>Protein Science</i> , 2019, 28, 848-856. | 7.6 | 9 |
| 21 | Yeast Two-Hybrid Analysis for Ubiquitin Variant Inhibitors of Human Deubiquitinases. <i>Journal of Molecular Biology</i> , 2019, 431, 1160-1171. | 4.2 | 6 |
| 22 | OAS-RNase L innate immune pathway mediates the cytotoxicity of a DNA-demethylating drug. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5071-5076. | 7.1 | 58 |
| 23 | Robust cullin-RING ligase function is established by a multiplicity of poly-ubiquitylation pathways. <i>ELife</i> , 2019, 8, . | 6.0 | 36 |
| 24 | Effects of rigidity on the selectivity of protein kinase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2018, 146, 519-528. | 5.5 | 11 |
| 25 | MEK drives BRAF activation through allosteric control of KSR proteins. <i>Nature</i> , 2018, 554, 549-553. | 27.8 | 105 |
| 26 | A feed forward loop enforces YAP/TAZ signaling during tumorigenesis. <i>Nature Communications</i> , 2018, 9, 3510. | 12.8 | 75 |
| 27 | Structural Basis for Auto-Inhibition of the NDR1 Kinase Domain by an Atypically Long Activation Segment. <i>Structure</i> , 2018, 26, 1101-1115.e6. | 3.3 | 17 |
| 28 | A Structure-Based Strategy for Engineering Selective Ubiquitin Variant Inhibitors of Skp1-Cul1-F-Box Ubiquitin Ligases. <i>Structure</i> , 2018, 26, 1226-1236.e3. | 3.3 | 27 |
| 29 | Metformin reduces liver glucose production by inhibition of fructose-1-6-bisphosphatase. <i>Nature Medicine</i> , 2018, 24, 1395-1406. | 30.7 | 212 |
| 30 | Mechanism of catalysis, E2 recognition, and autoinhibition for the IpaH family of bacterial E3 ubiquitin ligases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1311-1316. | 7.1 | 27 |
| 31 | Structural and functional characterization of a ubiquitin variant engineered for tight and specific binding to an alpha-helical ubiquitin interacting motif. <i>Protein Science</i> , 2017, 26, 1060-1069. | 7.6 | 20 |
| 32 | An allosteric conduit facilitates dynamic multisite substrate recognition by the SCFCdc4 ubiquitin ligase. <i>Nature Communications</i> , 2017, 8, 13943. | 12.8 | 33 |
| 33 | Inhibition of RAS function through targeting an allosteric regulatory site. <i>Nature Chemical Biology</i> , 2017, 13, 62-68. | 8.0 | 237 |
| 34 | Proteomic analysis of the human KEOPS complex identifies C14ORF142 as a core subunit homologous to yeast Gon7. <i>Nucleic Acids Research</i> , 2017, 45, 805-817. | 14.5 | 49 |
| 35 | Inhibition of SCF ubiquitin ligases by engineered ubiquitin variants that target the Cul1 binding site on the Skp1-F-box interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3527-3532. | 7.1 | 61 |
| 36 | Structural and functional characterization of KEOPS dimerization by Pcc1 and its role in t ⁶ A biosynthesis. <i>Nucleic Acids Research</i> , 2016, 44, 6971-6980. | 14.5 | 26 |

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|----|---|------|-----------|
| 37 | Expression and purification of functional human glycogen synthase-1:glycogenin-1 complex in insect cells. <i>Protein Expression and Purification</i> , 2015, 108, 23-29. | 1.3 | 12 |
| 38 | Getting a handle on glycogen synthase – Its interaction with glycogenin. <i>Molecular Aspects of Medicine</i> , 2015, 46, 63-69. | 6.4 | 25 |
| 39 | Baculovirus protein PK2 subverts eIF2 \pm kinase function by mimicry of its kinase domain C-lobe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4364-73. | 7.1 | 14 |
| 40 | Higher-Order Assembly of BRCC36 – KIAA0157 Is Required for DUB Activity and Biological Function. <i>Molecular Cell</i> , 2015, 59, 970-983. | 9.7 | 44 |
| 41 | Crystal structure of a BRAF kinase domain monomer explains basis for allosteric regulation. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 37-43. | 8.2 | 121 |
| 42 | Structural basis for the recruitment of glycogen synthase by glycogenin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2831-40. | 7.1 | 43 |
| 43 | Dimeric Structure of Pseudokinase RNase L Bound to 2-5A Reveals a Basis for Interferon-Induced Antiviral Activity. <i>Molecular Cell</i> , 2014, 53, 221-234. | 9.7 | 123 |
| 44 | E2 enzyme inhibition by stabilization of a low-affinity interface with ubiquitin. <i>Nature Chemical Biology</i> , 2014, 10, 156-163. | 8.0 | 81 |
| 45 | Structure and mechanism of action of the hydroxy – aryl – aldehyde class of IRE1 endoribonuclease inhibitors. <i>Nature Communications</i> , 2014, 5, 4202. | 12.8 | 108 |
| 46 | Dimerization-induced allostery in protein kinase regulation. <i>Trends in Biochemical Sciences</i> , 2014, 39, 475-486. | 7.5 | 80 |
| 47 | Structural basis of Rad53 kinase activation by dimerization and activation segment exchange. <i>Cellular Signalling</i> , 2014, 26, 1825-1836. | 3.6 | 16 |
| 48 | A Strategy for Modulation of Enzymes in the Ubiquitin System. <i>Science</i> , 2013, 339, 590-595. | 12.6 | 257 |
| 49 | Inhibitors that stabilize a closed RAF kinase domain conformation induce dimerization. <i>Nature Chemical Biology</i> , 2013, 9, 428-436. | 8.0 | 140 |
| 50 | Reconstitution and characterization of eukaryotic N6-threonylcarbamoylation of tRNA using a minimal enzyme system. <i>Nucleic Acids Research</i> , 2013, 41, 6332-6346. | 14.5 | 68 |
| 51 | Conserved Structural Mechanisms for Autoinhibition in IpaH Ubiquitin Ligases. <i>Journal of Biological Chemistry</i> , 2012, 287, 268-275. | 3.4 | 39 |
| 52 | Structural basis for specificity of TGF β family receptor small molecule inhibitors. <i>Cellular Signalling</i> , 2012, 24, 476-483. | 3.6 | 50 |
| 53 | An Allosteric Inhibitor of the Human Cdc34 – Ubiquitin-Conjugating Enzyme. <i>Cell</i> , 2011, 145, 1075-1087. | 28.9 | 203 |
| 54 | Putting the brakes on the unfolded protein response. <i>Journal of Cell Biology</i> , 2011, 193, 17-19. | 5.2 | 6 |

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|----|--|------|-----------|
| 55 | An allosteric inhibitor of substrate recognition by the SCFCdc4 ubiquitin ligase. <i>Nature Biotechnology</i> , 2010, 28, 733-737. | 17.5 | 136 |
| 56 | A dimerization-dependent mechanism drives RAF catalytic activation. <i>Nature</i> , 2009, 461, 542-545. | 27.8 | 420 |
| 57 | Atomic Structure of the KEOPS Complex: An Ancient Protein Kinase-Containing Molecular Machine. <i>Molecular Cell</i> , 2008, 32, 259-275. | 9.7 | 87 |
| 58 | The Eukaryotic Protein Kinase Domain. , 2005, , 181-209. | | 2 |
| 59 | Higher-Order Substrate Recognition of eIF2 γ by the RNA-Dependent Protein Kinase PKR. <i>Cell</i> , 2005, 122, 887-900. | 28.9 | 351 |
| 60 | Structural and biochemical characterization of the type III secretion chaperones CesT and SigE. <i>Nature Structural Biology</i> , 2001, 8, 1031-1036. | 9.7 | 122 |
| 61 | Multisite phosphorylation of a CDK inhibitor sets a threshold for the onset of DNA replication. <i>Nature</i> , 2001, 414, 514-521. | 27.8 | 710 |
| 62 | The crystal structure of an Eph receptor SAM domain reveals a mechanism for modular dimerization. <i>Nature Structural Biology</i> , 1999, 6, 44-49. | 9.7 | 229 |
| 63 | Engineered SH2 Domains for Targeted Phosphoproteomics. <i>ACS Chemical Biology</i> , 0, , . | 3.4 | 6 |