Hyunbum Jang

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#	Paper	IF	Citations
95	Ras Conformational Ensembles, Allostery, and Signaling. <i>Chemical Reviews</i> , 2016 , 116, 6607-65	68.1	199
94	Truncated beta-amyloid peptide channels provide an alternative mechanism for Alzheimer's Disease and Down syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6538-43	11.5	176
93	GTP-Dependent K-Ras Dimerization. <i>Structure</i> , 2015 , 23, 1325-35	5.2	145
92	Drugging Ras GTPase: a comprehensive mechanistic and signaling structural view. <i>Chemical Society Reviews</i> , 2016 , 45, 4929-52	58.5	113
91	Mechanisms for the Insertion of Toxic, Fibril-like EAmyloid Oligomers into the Membrane. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 822-833	6.4	102
90	The Structural Basis of Oncogenic Mutations G12, G13 and Q61 in Small GTPase K-Ras4B. <i>Scientific Reports</i> , 2016 , 6, 21949	4.9	95
89	Mutations in LZTR1 drive human disease by dysregulating RAS ubiquitination. <i>Science</i> , 2018 , 362, 1177-	-1383	87
88	Mechanisms of membrane binding of small GTPase K-Ras4B farnesylated hypervariable region. Journal of Biological Chemistry, 2015 , 290, 9465-77	5.4	81
87	A New View of Ras Isoforms in Cancers. <i>Cancer Research</i> , 2016 , 76, 18-23	10.1	71
86	Membrane-associated Ras dimers are isoform-specific: K-Ras dimers differ from H-Ras dimers. <i>Biochemical Journal</i> , 2016 , 473, 1719-32	3.8	68
85	Disordered amyloidogenic peptides may insert into the membrane and assemble into common cyclic structural motifs. <i>Chemical Society Reviews</i> , 2014 , 43, 6750-64	58.5	66
84	The Key Role of Calmodulin in KRAS-Driven Adenocarcinomas. <i>Molecular Cancer Research</i> , 2015 , 13, 120	6 <i>5</i> 6.763	65
83	Oncogenic Ras Isoforms Signaling Specificity at the Membrane. <i>Cancer Research</i> , 2018 , 78, 593-602	10.1	65
82	GTP Binding and Oncogenic Mutations May Attenuate Hypervariable Region (HVR)-Catalytic Domain Interactions in Small GTPase K-Ras4B, Exposing the Effector Binding Site. <i>Journal of Biological Chemistry</i> , 2015 , 290, 28887-900	5.4	60
81	The higher level of complexity of K-Ras4B activation at the membrane. FASEB Journal, 2016, 30, 1643-5	5 5 0.9	58
80	Polymorphism of amyloid [peptide in different environments: implications for membrane insertion and pore formation. <i>Soft Matter</i> , 2011 , 7, 5267-5273	3.6	57
79	High-Affinity Interaction of the K-Ras4B Hypervariable Region with the Ras Active Site. <i>Biophysical Journal</i> , 2015 , 109, 2602-2613	2.9	56

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78	A New View of Pathway-Driven Drug Resistance in Tumor Proliferation. <i>Trends in Pharmacological Sciences</i> , 2017 , 38, 427-437	13.2	47
77	PI3K inhibitors: review and new strategies. <i>Chemical Science</i> , 2020 , 11, 5855-5865	9.4	46
76	Raf-1 Cysteine-Rich Domain Increases the Affinity of K-Ras/Raf at the Membrane, Promoting MAPK Signaling. <i>Structure</i> , 2018 , 26, 513-525.e2	5.2	46
75	Inhibitors of Ras-SOS Interactions. <i>ChemMedChem</i> , 2016 , 11, 814-21	3.7	46
74	The mechanism of PI3Klactivation at the atomic level. <i>Chemical Science</i> , 2019 , 10, 3671-3680	9.4	45
73	Review: Precision medicine and driver mutations: Computational methods, functional assays and conformational principles for interpreting cancer drivers. <i>PLoS Computational Biology</i> , 2019 , 15, e10066	. <i>5</i> 58	45
72	Calmodulin and PI3K Signaling in Cancers. <i>Trends in Cancer</i> , 2017 , 3, 214-224	12.5	43
71	Oncogenic KRAS signaling and YAP1/Eatenin: Similar cell cycle control in tumor initiation. <i>Seminars in Cell and Developmental Biology</i> , 2016 , 58, 79-85	7.5	43
70	Phosphorylated Calmodulin Promotes PI3K Activation by Binding to the SH Domains. <i>Biophysical Journal</i> , 2017 , 113, 1956-1967	2.9	39
69	The disordered hypervariable region and the folded catalytic domain of oncogenic K-Ras4B partner in phospholipid binding. <i>Current Opinion in Structural Biology</i> , 2016 , 36, 10-7	8.1	35
68	Flexible-body motions of calmodulin and the farnesylated hypervariable region yield a high-affinity interaction enabling K-Ras4B membrane extraction. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12544-12	25 5 9	34
67	Intrinsic protein disorder in oncogenic KRAS signaling. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 324	1 5 6336	134
66	Comparison of the Conformations of KRAS Isoforms, K-Ras4A and K-Ras4B, Points to Similarities and Significant Differences. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 667-79	3.4	34
65	Oligomerization and nanocluster organization render specificity. <i>Biological Reviews</i> , 2015 , 90, 587-98	13.5	34
64	The structural basis for cancer treatment decisions. <i>Oncotarget</i> , 2014 , 5, 7285-302	3.3	33
63	Principles of K-Ras effector organization and the role of oncogenic K-Ras in cancer initiation through G1 cell cycle deregulation. <i>Expert Review of Proteomics</i> , 2015 , 12, 669-82	4.2	31
62	Is Nanoclustering essential for all oncogenic KRas pathways? Can it explain why wild-type KRas can inhibit its oncogenic variant?. <i>Seminars in Cancer Biology</i> , 2019 , 54, 114-120	12.7	30
61	K-Ras4B/calmodulin/PI3K□A promising new adenocarcinoma-specific drug target?. <i>Expert Opinion on Therapeutic Targets</i> , 2016 , 20, 831-42	6.4	29

60	Does Ras Activate Raf and PI3K Allosterically?. Frontiers in Oncology, 2019, 9, 1231	5.3	29
59	Autoinhibition in Ras effectors Raf, PI3K and RASSF5: a comprehensive review underscoring the challenges in pharmacological intervention. <i>Biophysical Reviews</i> , 2018 , 10, 1263-1282	3.7	29
58	The structural basis for Ras activation of PI3KIlipid kinase. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 12021-12028	3.6	28
57	Plasma membrane regulates Ras signaling networks. <i>Cellular Logistics</i> , 2015 , 5, e1136374		26
56	Familial Alzheimer's disease Osaka mutant (£22) Ebarrels suggest an explanation for the different A'\(\frac{1}{4}\) 42 preferred conformational states observed by experiment. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 11518-29	3.4	26
55	Precision medicine review: rare driver mutations and their biophysical classification. <i>Biophysical Reviews</i> , 2019 , 11, 5-19	3.7	26
54	The quaternary assembly of KRas4B with Raf-1 at the membrane. <i>Computational and Structural Biotechnology Journal</i> , 2020 , 18, 737-748	6.8	26
53	Protein ensembles link genotype to phenotype. <i>PLoS Computational Biology</i> , 2019 , 15, e1006648	5	25
52	Unraveling the molecular mechanism of interactions of the Rho GTPases Cdc42 and Rac1 with the scaffolding protein IQGAP2. <i>Journal of Biological Chemistry</i> , 2018 , 293, 3685-3699	5.4	24
51	RASSF5: An MST activator and tumor suppressor in vivo but opposite in vitro. <i>Current Opinion in Structural Biology</i> , 2016 , 41, 217-224	8.1	24
50	Dynamic multiprotein assemblies shape the spatial structure of cell signaling. <i>Progress in Biophysics and Molecular Biology</i> , 2014 , 116, 158-64	4.7	24
49	PDEIBinding to Ras Isoforms Provides a Route to Proper Membrane Localization. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5917-5927	3.4	21
48	The Structural Basis of the Farnesylated and Methylated KRas4B Interaction with Calmodulin. <i>Structure</i> , 2019 , 27, 1647-1659.e4	5.2	21
47	The dynamic mechanism of RASSF5 and MST kinase activation by Ras. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6470-6480	3.6	19
46	Oncogenic KRas mobility in the membrane and signaling response. <i>Seminars in Cancer Biology</i> , 2019 , 54, 109-113	12.7	18
45	Anticancer drug resistance: An update and perspective <i>Drug Resistance Updates</i> , 2021 , 100796	23.2	17
44	Allosteric KRas4B Can Modulate SOS1 Fast and Slow Ras Activation Cycles. <i>Biophysical Journal</i> , 2018 , 115, 629-641	2.9	16
43	Ras assemblies and signaling at the membrane. <i>Current Opinion in Structural Biology</i> , 2020 , 62, 140-148	8.1	15

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42	Autoinhibition can identify rare driver mutations and advise pharmacology. <i>FASEB Journal</i> , 2020 , 34, 16-29	0.9	15
41	Oncogenic K-Ras4B Dimerization Enhances Downstream Mitogen-activated Protein Kinase Signaling. <i>Journal of Molecular Biology</i> , 2020 , 432, 1199-1215	6.5	13
40	Why Are Some Driver Mutations Rare?. Trends in Pharmacological Sciences, 2019, 40, 919-929	13.2	13
39	Graphite-Templated Amyloid Nanostructures Formed by a Potential Pentapeptide Inhibitor for Alzheimer's Disease: A Combined Study of Real-Time Atomic Force Microscopy and Molecular Dynamics Simulations. <i>Langmuir</i> , 2017 , 33, 6647-6656	4	12
38	Computational Structural Biology: Successes, Future Directions, and Challenges. <i>Molecules</i> , 2019 , 24,	4.8	12
37	High-Affinity Interactions of the nSH3/cSH3 Domains of Grb2 with the C-Terminal Proline-Rich Domain of SOS1. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3401-3411	16.4	12
36	PI3K Driver Mutations: A Biophysical Membrane-Centric Perspective. Cancer Research, 2021, 81, 237-24	710.1	12
35	Calmodulin and IQGAP1 activation of PI3Kland Akt in KRAS, HRAS and NRAS-driven cancers. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 2304-2314	6.9	12
34	Are Parallel Proliferation Pathways Redundant?. Trends in Biochemical Sciences, 2020, 45, 554-563	10.3	11
33	Calmodulin (CaM) Activates PI3Klby Targeting the "Soft" CaM-Binding Motifs in Both the nSH2 and cSH2 Domains of p85\(\textit{Journal of Physical Chemistry B}, \textit{2018}, 122, 11137-11146}	3.4	11
32	Arl2-Mediated Allosteric Release of Farnesylated KRas4B from Shuttling Factor PDE[]Journal of Physical Chemistry B, 2018 , 122, 7503-7513	3.4	11
31	Structural Features that Distinguish Inactive and Active PI3K Lipid Kinases. <i>Journal of Molecular Biology</i> , 2020 , 432, 5849-5859	6.5	11
30	Phosphorylation and Driver Mutations in PI3Kland PTEN Autoinhibition. <i>Molecular Cancer Research</i> , 2021 , 19, 543-548	6.6	11
29	A new precision medicine initiative at the dawn of exascale computing. <i>Signal Transduction and Targeted Therapy</i> , 2021 , 6, 3	21	11
28	Inhibition of Nonfunctional Ras. <i>Cell Chemical Biology</i> , 2021 , 28, 121-133	8.2	11
27	The Mystery of Rap1 Suppression of Oncogenic Ras. <i>Trends in Cancer</i> , 2020 , 6, 369-379	12.5	10
26	The mechanism of full activation of tumor suppressor PTEN at the phosphoinositide-enriched membrane. <i>IScience</i> , 2021 , 24, 102438	6.1	10
25	The mechanism of activation of monomeric B-Raf V600E. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 3349-3363	6.8	9

24	Interaction of Calmodulin with the cSH2 Domain of the p85 Regulatory Subunit. <i>Biochemistry</i> , 2018 , 57, 1917-1928	3.2	8
23	Ca-Dependent Switch of Calmodulin Interaction Mode with Tandem IQ Motifs in the Scaffolding Protein IQGAP1. <i>Biochemistry</i> , 2019 , 58, 4903-4911	3.2	8
22	Dynamic Protein Allosteric Regulation and Disease. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1163, 25-43	3.6	8
21	SOS1 interacts with Grb2 through regions that induce closed nSH3 conformations. <i>Journal of Chemical Physics</i> , 2020 , 153, 045106	3.9	7
20	Active and Inactive Cdc42 Differ in Their Insert Region Conformational Dynamics. <i>Biophysical Journal</i> , 2021 , 120, 306-318	2.9	7
19	B-Raf autoinhibition in the presence and absence of 14-3-3. <i>Structure</i> , 2021 , 29, 768-777.e2	5.2	7
18	Computational Methods for Structural and Functional Studies of Alzheimers Amyloid Ion Channels. <i>Methods in Molecular Biology</i> , 2016 , 1345, 251-68	1.4	6
17	Normal Mode Analysis of KRas4B Reveals Partner Specific Dynamics. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 5210-5221	3.4	6
16	Medin Oligomer Membrane Pore Formation: A Potential Mechanism of Vascular Dysfunction. <i>Biophysical Journal</i> , 2020 , 118, 2769-2782	2.9	5
15	Nucleotide-Specific Autoinhibition of Full-Length K-Ras4B Identified by Extensive Conformational Sampling. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 145	5.6	5
14	Ras isoform-specific expression, chromatin accessibility, and signaling. <i>Biophysical Reviews</i> , 2021 , 13, 489-505	3.7	5
13	How can same-gene mutations promote both cancer and developmental disorders?. <i>Science Advances</i> , 2022 , 8, eabm2059	14.3	4
12	Allostery, and how to define and measure signal transduction <i>Biophysical Chemistry</i> , 2022 , 283, 106766	53.5	3
11	The mechanism of Raf activation through dimerization Chemical Science, 2021, 12, 15609-15619	9.4	3
10	Signaling in the crowded cell. Current Opinion in Structural Biology, 2021, 71, 43-50	8.1	3
9	Mechanism of activation and the rewired network: New drug design concepts. <i>Medicinal Research Reviews</i> , 2021 ,	14.4	2
8	Mechanistic Differences of Activation of Rac1 and Rac1. Journal of Physical Chemistry B, 2021, 125, 3790)-3802	2
7	The structural basis of the oncogenic mutant K-Ras4B homodimers		1

6 The Mechanism of Activation of Monomeric B-Raf V600E

5	The structural basis of Akt PH domain interaction with calmodulin. <i>Biophysical Journal</i> , 2021 , 120, 1994	1-2098	1
4	Allostery: Allosteric Cancer Drivers and Innovative Allosteric Drugs <i>Journal of Molecular Biology</i> , 2022 , 167569	6.5	1
3	The mechanism of activation of MEK1 by B-Raf and KSR1 <i>Cellular and Molecular Life Sciences</i> , 2022 , 79, 281	10.3	1
2	Novel MAPK/AKT-impairing germline NRAS variant identified in a melanoma-prone family. <i>Familial Cancer</i> , 2021 , 1	3	О
1	The dynamic nature of the K-Ras/calmodulin complex can be altered by oncogenic mutations. <i>Current Opinion in Structural Biology</i> , 2021 , 71, 164-170	8.1	Ο

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