

# Ruth Nussinov

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

291  
papers

23,721  
citations

74  
h-index

147  
g-index

323  
ext. papers

27,816  
ext. citations

8.1  
avg, IF

7.54  
L-index

#	Paper	IF	Citations
291	How can same-gene mutations promote both cancer and developmental disorders?. <i>Science Advances</i> , <b>2022</b> , 8, eabm2059	14.3	4
290	Allostery, and how to define and measure signal transduction.. <i>Biophysical Chemistry</i> , <b>2022</b> , 283, 106766	3.5	3
289	Artificial intelligence approaches to human-microbiome protein-protein interactions.. <i>Current Opinion in Structural Biology</i> , <b>2022</b> , 73, 102328	8.1	1
288	Allostery: Allosteric Cancer Drivers and Innovative Allosteric Drugs.. <i>Journal of Molecular Biology</i> , <b>2022</b> , 167569	6.5	1
287	The mechanism of activation of MEK1 by B-Raf and KSR1.. <i>Cellular and Molecular Life Sciences</i> , <b>2022</b> , 79, 281	10.3	1
286	Anticancer drug resistance: An update and perspective.. <i>Drug Resistance Updates</i> , <b>2021</b> , 100796	23.2	17
285	The mechanism of Raf activation through dimerization.. <i>Chemical Science</i> , <b>2021</b> , 12, 15609-15619	9.4	3
284	Mechanism of activation and the rewired network: New drug design concepts. <i>Medicinal Research Reviews</i> , <b>2021</b> ,	14.4	2
283	Interpretable artificial intelligence and exascale molecular dynamics simulations to reveal kinetics: Applications to Alzheimer's disease. <i>Current Opinion in Structural Biology</i> , <b>2021</b> , 72, 103-113	8.1	0
282	MSA-Regularized Protein Sequence Transformer toward Predicting Genome-Wide Chemical-Protein Interactions: Application to GPCRome Deorphanization. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 1570-1582	6.1	2
281	Mechanistic Differences of Activation of Rac1 and Rac1. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 3790-3802	3.4	2
280	The mechanism of full activation of tumor suppressor PTEN at the phosphoinositide-enriched membrane. <i>IScience</i> , <b>2021</b> , 24, 102438	6.1	10
279	The structural basis of Akt PH domain interaction with calmodulin. <i>Biophysical Journal</i> , <b>2021</b> , 120, 1994-2008	2.9	1
278	Normal Mode Analysis of KRas4B Reveals Partner Specific Dynamics. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 5210-5221	3.4	6
277	Novel MAPK/AKT-impairing germline NRAS variant identified in a melanoma-prone family. <i>Familial Cancer</i> , <b>2021</b> , 1	3	0
276	PI3K Driver Mutations: A Biophysical Membrane-Centric Perspective. <i>Cancer Research</i> , <b>2021</b> , 81, 237-247	10.1	12
275	Phosphorylation and Driver Mutations in PI3K and PTEN Autoinhibition. <i>Molecular Cancer Research</i> , <b>2021</b> , 19, 543-548	6.6	11

274	A new precision medicine initiative at the dawn of exascale computing. <i>Signal Transduction and Targeted Therapy</i> , <b>2021</b> , 6, 3	21	11
273	The mechanism of activation of monomeric B-Raf V600E. <i>Computational and Structural Biotechnology Journal</i> , <b>2021</b> , 19, 3349-3363	6.8	9
272	A network-based deep learning methodology for stratification of tumor mutations. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	3
271	Active and Inactive Cdc42 Differ in Their Insert Region Conformational Dynamics. <i>Biophysical Journal</i> , <b>2021</b> , 120, 306-318	2.9	7
270	Inhibition of Nonfunctional Ras. <i>Cell Chemical Biology</i> , <b>2021</b> , 28, 121-133	8.2	11
269	Amyloid Oligomers: A Joint Experimental/Computational Perspective on Alzheimer's Disease, Parkinson's Disease, Type II Diabetes, and Amyotrophic Lateral Sclerosis. <i>Chemical Reviews</i> , <b>2021</b> , 121, 2545-2647	68.1	128
268	Trastuzumab Blocks the Receiver Function of HER2 Leading to the Population Shifts of HER2-Containing Homodimers and Heterodimers. <i>Antibodies</i> , <b>2021</b> , 10,	7	1
267	Ras isoform-specific expression, chromatin accessibility, and signaling. <i>Biophysical Reviews</i> , <b>2021</b> , 13, 489-505	3.7	5
266	B-Raf autoinhibition in the presence and absence of 14-3-3. <i>Structure</i> , <b>2021</b> , 29, 768-777.e2	5.2	7
265	Signaling in the crowded cell. <i>Current Opinion in Structural Biology</i> , <b>2021</b> , 71, 43-50	8.1	3
264	The dynamic nature of the K-Ras/calmodulin complex can be altered by oncogenic mutations. <i>Current Opinion in Structural Biology</i> , <b>2021</b> , 71, 164-170	8.1	0
263	My personal mutanome: a computational genomic medicine platform for searching network perturbing alleles linking genotype to phenotype. <i>Genome Biology</i> , <b>2021</b> , 22, 53	18.3	7
262	Peptide-MHC Binding Reveals Conserved Allosteric Sites in MHC Class I- and Class II-Restricted T Cell Receptors (TCRs). <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 166697	6.5	3
261	PI3K inhibitors: review and new strategies. <i>Chemical Science</i> , <b>2020</b> , 11, 5855-5865	9.4	46
260	Are Parallel Proliferation Pathways Redundant?. <i>Trends in Biochemical Sciences</i> , <b>2020</b> , 45, 554-563	10.3	11
259	Ras assemblies and signaling at the membrane. <i>Current Opinion in Structural Biology</i> , <b>2020</b> , 62, 140-148	8.1	15
258	Individualized genetic network analysis reveals new therapeutic vulnerabilities in 6,700 cancer genomes. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1007701	5	19
257	HMI-PRED: A Web Server for Structural Prediction of Host-Microbe Interactions Based on Interface Mimicry. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 3395-3403	6.5	13

256	Oncogenic K-Ras4B Dimerization Enhances Downstream Mitogen-activated Protein Kinase Signaling. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 1199-1215	6.5	13
255	Target identification among known drugs by deep learning from heterogeneous networks. <i>Chemical Science</i> , <b>2020</b> , 11, 1775-1797	9.4	91
254	Network-based prediction of drug-target interactions using an arbitrary-order proximity embedded deep forest. <i>Bioinformatics</i> , <b>2020</b> , 36, 2805-2812	7.2	58
253	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> , <b>2020</b> , 142, 3401-3411	16.4	12
252	Computational network biology: Data, models, and applications. <i>Physics Reports</i> , <b>2020</b> , 846, 1-66	27.7	54
251	Autoinhibition can identify rare driver mutations and advise pharmacology. <i>FASEB Journal</i> , <b>2020</b> , 34, 16-29	0.9	15
250	Structural Features that Distinguish Inactive and Active PI3K Lipid Kinases. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 5849-5859	6.5	11
249	Medin Oligomer Membrane Pore Formation: A Potential Mechanism of Vascular Dysfunction. <i>Biophysical Journal</i> , <b>2020</b> , 118, 2769-2782	2.9	5
248	The Mystery of Rap1 Suppression of Oncogenic Ras. <i>Trends in Cancer</i> , <b>2020</b> , 6, 369-379	12.5	10
247	Harnessing endophenotypes and network medicine for Alzheimer's drug repurposing. <i>Medicinal Research Reviews</i> , <b>2020</b> , 40, 2386-2426	14.4	25
246	Nucleotide-Specific Autoinhibition of Full-Length K-Ras4B Identified by Extensive Conformational Sampling. <i>Frontiers in Molecular Biosciences</i> , <b>2020</b> , 7, 145	5.6	5
245	SOS1 interacts with Grb2 through regions that induce closed nSH3 conformations. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 045106	3.9	7
244	Computational Investigation of Gantenerumab and Crenezumab Recognition of A $\beta$ Fibrils in Alzheimer's Disease Brain Tissue. <i>ACS Chemical Neuroscience</i> , <b>2020</b> , 11, 3233-3244	5.7	4
243	Artificial intelligence in COVID-19 drug repurposing. <i>The Lancet Digital Health</i> , <b>2020</b> , 2, e667-e676	14.4	188
242	The quaternary assembly of KRas4B with Raf-1 at the membrane. <i>Computational and Structural Biotechnology Journal</i> , <b>2020</b> , 18, 737-748	6.8	26
241	Head and Neck Cancers Promote an Inflammatory Transcriptome through Coactivation of Classic and Alternative NF- $\kappa$ B Pathways. <i>Cancer Immunology Research</i> , <b>2019</b> , 7, 1760-1774	12.5	11
240	Emerging Allosteric Mechanism of EGFR Activation in Physiological and Pathological Contexts. <i>Biophysical Journal</i> , <b>2019</b> , 117, 5-13	2.9	19
239	A Systems Pharmacology Approach Uncovers Wogonoside as an Angiogenesis Inhibitor of Triple-Negative Breast Cancer by Targeting Hedgehog Signaling. <i>Cell Chemical Biology</i> , <b>2019</b> , 26, 1143-1158.e6 <sup>23</sup>	8.2	23

238	The structural basis for Ras activation of PI3K $\beta$ lipid kinase. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 12021-12028	3.6	28
237	deepDR: a network-based deep learning approach to in silico drug repositioning. <i>Bioinformatics</i> , <b>2019</b> , 35, 5191-5198	7.2	194
236	The mechanism of PI3K $\beta$ activation at the atomic level. <i>Chemical Science</i> , <b>2019</b> , 10, 3671-3680	9.4	45
235	Review: Precision medicine and driver mutations: Computational methods, functional assays and conformational principles for interpreting cancer drivers. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006658	5.8	45
234	A component overlapping attribute clustering (COAC) algorithm for single-cell RNA sequencing data analysis and potential pathobiological implications. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006772	5	11
233	Allostery in Its Many Disguises: From Theory to Applications. <i>Structure</i> , <b>2019</b> , 27, 566-578	5.2	158
232	Computational Structural Biology: Successes, Future Directions, and Challenges. <i>Molecules</i> , <b>2019</b> , 24,	4.8	12
231	Protein ensembles link genotype to phenotype. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006648	5	25
230	Pathogenic Autoreactive T and B Cells Cross-React with Mimotopes Expressed by a Common Human Gut Commensal to Trigger Autoimmunity. <i>Cell Host and Microbe</i> , <b>2019</b> , 26, 100-113.e8	23.4	63
229	The Structural Basis of the Farnesylated and Methylated KRas4B Interaction with Calmodulin. <i>Structure</i> , <b>2019</b> , 27, 1647-1659.e4	5.2	21
228	Does Ras Activate Raf and PI3K Allosterically?. <i>Frontiers in Oncology</i> , <b>2019</b> , 9, 1231	5.3	29
227	Ca-Dependent Switch of Calmodulin Interaction Mode with Tandem IQ Motifs in the Scaffolding Protein IQGAP1. <i>Biochemistry</i> , <b>2019</b> , 58, 4903-4911	3.2	8
226	Dynamic Protein Allosteric Regulation and Disease. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1163, 25-43	3.6	8
225	Why Are Some Driver Mutations Rare?. <i>Trends in Pharmacological Sciences</i> , <b>2019</b> , 40, 919-929	13.2	13
224	Oncoviruses Can Drive Cancer by Rewiring Signaling Pathways Through Interface Mimicry. <i>Frontiers in Oncology</i> , <b>2019</b> , 9, 1236	5.3	11
223	Antigen binding allosterically promotes Fc receptor recognition. <i>MAbs</i> , <b>2019</b> , 11, 58-74	6.6	30
222	Developments in integrative modeling with dynamical interfaces. <i>Current Opinion in Structural Biology</i> , <b>2019</b> , 56, 11-17	8.1	9
221	Precision medicine review: rare driver mutations and their biophysical classification. <i>Biophysical Reviews</i> , <b>2019</b> , 11, 5-19	3.7	26

220	Personal Mutanomes Meet Modern Oncology Drug Discovery and Precision Health. <i>Pharmacological Reviews</i> , <b>2019</b> , 71, 1-19	22.5	30
219	Interface-Based Structural Prediction of Novel Host-Pathogen Interactions. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1851, 317-335	1.4	11
218	Oncogenic KRas mobility in the membrane and signaling response. <i>Seminars in Cancer Biology</i> , <b>2019</b> , 54, 109-113	12.7	18
217	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> , <b>2019</b> , 54, 114-120	12.7	30
216	Unraveling the molecular mechanism of interactions of the Rho GTPases Cdc42 and Rac1 with the scaffolding protein IQGAP2. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 3685-3699	5.4	24
215	Interaction of Calmodulin with the cSH2 Domain of the p85 Regulatory Subunit. <i>Biochemistry</i> , <b>2018</b> , 57, 1917-1928	3.2	8
214	Raf-1 Cysteine-Rich Domain Increases the Affinity of K-Ras/Raf at the Membrane, Promoting MAPK Signaling. <i>Structure</i> , <b>2018</b> , 26, 513-525.e2	5.2	46
213	Atomistic-level study of the interactions between hIAPP protofibrils and membranes: Influence of pH and lipid composition. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 1818-1825	3.8	22
212	Oncogenic Ras Isoforms Signaling Specificity at the Membrane. <i>Cancer Research</i> , <b>2018</b> , 78, 593-602	10.1	65
211	Allosteric activation of RAF in the MAPK signaling pathway. <i>Current Opinion in Structural Biology</i> , <b>2018</b> , 53, 100-106	8.1	20
210	Calmodulin (CaM) Activates PI3K by Targeting the "Soft" CaM-Binding Motifs in Both the nSH2 and cSH2 Domains of p85. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 11137-11146	3.4	11
209	Arl2-Mediated Allosteric Release of Farnesylated KRas4B from Shuttling Factor PDE. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 7503-7513	3.4	11
208	The distinct structural preferences of tau protein repeat domains. <i>Chemical Communications</i> , <b>2018</b> , 54, 5700-5703	5.8	14
207	KRAS Activating Signaling Triggers Arteriovenous Malformations. <i>Trends in Biochemical Sciences</i> , <b>2018</b> , 43, 481-483	10.3	7
206	Peptide-MHC (pMHC) binding to a human antiviral T cell receptor induces long-range allosteric communication between pMHC- and CD3-binding sites. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 15991-16005	5.4	27
205	Allosteric KRas4B Can Modulate SOS1 Fast and Slow Ras Activation Cycles. <i>Biophysical Journal</i> , <b>2018</b> , 115, 629-641	2.9	16
204	Structure and energetic basis of overrepresented light chain in systemic light chain amyloidosis patients. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2018</b> , 1864, 2294-2303	6.9	4
203	Calmodulin and IQGAP1 activation of PI3K and Akt in KRAS, HRAS and NRAS-driven cancers. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2018</b> , 1864, 2304-2314	6.9	12

202	Mutations in LZTR1 drive human disease by dysregulating RAS ubiquitination. <i>Science</i> , <b>2018</b> , 362, 1177-1183	13.3	87
201	Autoinhibition in Ras effectors Raf, PI3K and RASSF5: a comprehensive review underscoring the challenges in pharmacological intervention. <i>Biophysical Reviews</i> , <b>2018</b> , 10, 1263-1282	3.7	29
200	Structural disorder in four-repeat Tau fibrils reveals a new mechanism for barriers to cross-seeding of Tau isoforms. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 17336-17348	5.4	25
199	Molecular Recognition between Aβ-specific Single-Domain Antibody and Aβ-Misfolded Aggregates. <i>Antibodies</i> , <b>2018</b> , 7,	7	7
198	Familial Mutations May Switch Conformational Preferences in β-Synuclein Fibrils. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 837-849	5.7	25
197	Calmodulin and PI3K Signaling in Cancers. <i>Trends in Cancer</i> , <b>2017</b> , 3, 214-224	12.5	43
196	A New View of Pathway-Driven Drug Resistance in Tumor Proliferation. <i>Trends in Pharmacological Sciences</i> , <b>2017</b> , 38, 427-437	13.2	47
195	The dynamic mechanism of RASSF5 and MST kinase activation by Ras. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 6470-6480	3.6	19
194	Allostery modulates the beat rate of a cardiac pacemaker. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 6429-6430	5.4	4
193	A Protocol for the Design of Protein and Peptide Nanostructure Self-Assemblies Exploiting Synthetic Amino Acids. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1529, 323-352	1.4	0
192	Computational Tools for Allosteric Drug Discovery: Site Identification and Focus Library Design. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1529, 439-446	1.4	12
191	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> , <b>2017</b> , 292, 12544-12559	5.4	34
190	Intrinsic protein disorder in oncogenic KRAS signaling. <i>Cellular and Molecular Life Sciences</i> , <b>2017</b> , 74, 3245-3261	13.3	34
189	PDE1 Binding to Ras Isoforms Provides a Route to Proper Membrane Localization. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 5917-5927	3.4	21
188	Exploring the Aggregation Mechanism of Intrinsically Disordered Tau Protein. <i>World Scientific Lecture and Course Notes in Chemistry</i> , <b>2017</b> , 51-71		
187	Mechanisms of recognition of amyloid-β monomer, oligomer, and fibril by homologous antibodies. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 18325-18343	5.4	38
186	Prediction of Host-Pathogen Interactions for Helicobacter pylori by Interface Mimicry and Implications to Gastric Cancer. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 3925-3941	6.5	16
185	Phosphorylated Calmodulin Promotes PI3K Activation by Binding to the SH Domains. <i>Biophysical Journal</i> , <b>2017</b> , 113, 1956-1967	2.9	39

184	Energetic redistribution in allostery to execute protein function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 7480-7482	11.5	30
183	Compilation and Analysis of Enzymes, Engineered Antibodies, and Nanoparticles Designed to Interfere with Amyloid- $\beta$ Aggregation. <i>Israel Journal of Chemistry</i> , <b>2017</b> , 57, 622-633	3.4	1
182	Structural host-microbiota interaction networks. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005579	5	35
181	Prediction of Protein Interactions by Structural Matching: Prediction of PPI Networks and the Effects of Mutations on PPIs that Combines Sequence and Structural Information. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1558, 255-270	1.4	4
180	Allosteric control of antibody-prion recognition through oxidation of a disulfide bond between the CH and CL chains. <i>Protein Engineering, Design and Selection</i> , <b>2017</b> , 30, 67-76	1.9	6
179	Amylin- $\beta$ oligomers at atomic resolution using molecular dynamics simulations: a link between Type 2 diabetes and Alzheimer's disease. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 2330-8	3.6	63
178	Conformational dynamics of cancer-associated MyD88-TIR domain mutant L252P (L265P) allosterically tilts the landscape toward homo-dimerization. <i>Protein Engineering, Design and Selection</i> , <b>2016</b> , 29, 347-54	1.9	13
177	RASSF5: An MST activator and tumor suppressor in vivo but opposite in vitro. <i>Current Opinion in Structural Biology</i> , <b>2016</b> , 41, 217-224	8.1	24
176	Conformational selection in amyloid-based immunotherapy: Survey of crystal structures of antibody-amyloid complexes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 2672-81	4	17
175	Pathogen mimicry of host protein-protein interfaces modulates immunity. <i>Seminars in Cell and Developmental Biology</i> , <b>2016</b> , 58, 136-45	7.5	33
174	Membrane-associated Ras dimers are isoform-specific: K-Ras dimers differ from H-Ras dimers. <i>Biochemical Journal</i> , <b>2016</b> , 473, 1719-32	3.8	68
173	Protein Ensembles: How Does Nature Harness Thermodynamic Fluctuations for Life? The Diverse Functional Roles of Conformational Ensembles in the Cell. <i>Chemical Reviews</i> , <b>2016</b> , 116, 6516-51	68.1	221
172	Ras Conformational Ensembles, Allostery, and Signaling. <i>Chemical Reviews</i> , <b>2016</b> , 116, 6607-65	68.1	199
171	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> , <b>2016</b> , 120, 667-79	3.4	34
170	A New View of Ras Isoforms in Cancers. <i>Cancer Research</i> , <b>2016</b> , 76, 18-23	10.1	71
169	Dimerization of the SP1 Region of HIV-1 Gag Induces a Helical Conformation and Association into Helical Bundles: Implications for Particle Assembly. <i>Journal of Virology</i> , <b>2016</b> , 90, 1773-87	6.6	26
168	Self-aggregation and coaggregation of the p53 core fragment with its aggregation gatekeeper variant. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 8098-107	3.6	18
167	The Role of Protein Loops and Linkers in Conformational Dynamics and Allostery. <i>Chemical Reviews</i> , <b>2016</b> , 116, 6391-423	68.1	213

166	K-Ras4B/calmodulin/PI3K/A promising new adenocarcinoma-specific drug target?. <i>Expert Opinion on Therapeutic Targets</i> , <b>2016</b> , 20, 831-42	6.4	29
165	Coupling of the non-amyloid-component (NAC) domain and the KTK(E/Q)GV repeats stabilize the $\beta$ -synuclein fibrils. <i>European Journal of Medicinal Chemistry</i> , <b>2016</b> , 121, 841-850	6.8	21
164	The disordered hypervariable region and the folded catalytic domain of oncogenic K-Ras4B partner in phospholipid binding. <i>Current Opinion in Structural Biology</i> , <b>2016</b> , 36, 10-7	8.1	35
163	Principles and Overview of Sampling Methods for Modeling Macromolecular Structure and Dynamics. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004619	5	124
162	Drugging Ras GTPase: a comprehensive mechanistic and signaling structural view. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 4929-52	58.5	113
161	Intracellular and intercellular signaling networks in cancer initiation, development and precision anti-cancer therapy: RAS acts as contextual signaling hub. <i>Seminars in Cell and Developmental Biology</i> , <b>2016</b> , 58, 55-9	7.5	14
160	Inhibitors of Ras-SOS Interactions. <i>ChemMedChem</i> , <b>2016</b> , 11, 814-21	3.7	46
159	Insights Into the Allosteric Inhibition of the SUMO E2 Enzyme Ubc9. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5797-5801	7.6	10
158	The Structural Basis of Oncogenic Mutations G12, G13 and Q61 in Small GTPase K-Ras4B. <i>Scientific Reports</i> , <b>2016</b> , 6, 21949	4.9	95
157	The higher level of complexity of K-Ras4B activation at the membrane. <i>FASEB Journal</i> , <b>2016</b> , 30, 1643-55	5.9	58
156	TRAF3 signaling: Competitive binding and evolvability of adaptive viral molecular mimicry. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 2646-55	4	20
155	How Does Hyperphosphorylation Promote Tau Aggregation and Modulate Filament Structure and Stability?. <i>ACS Chemical Neuroscience</i> , <b>2016</b> , 7, 565-75	5.7	23
154	Oncogenic KRAS signaling and YAP1/Eatenin: Similar cell cycle control in tumor initiation. <i>Seminars in Cell and Developmental Biology</i> , <b>2016</b> , 58, 79-85	7.5	43
153	PRISM-EM: template interface-based modelling of multi-protein complexes guided by cryo-electron microscopy density maps. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2016</b> , 72, 1137-1148	5.5	12
152	The design of covalent allosteric drugs. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2015</b> , 55, 249-67	17.9	76
151	The Role of Allostery in the Termination of Second Messenger Signaling. <i>Biophysical Journal</i> , <b>2015</b> , 109, 1080-1	2.9	3
150	Allosteric Stretching-and-Packing Cross-Seeding Mechanism Can Trigger Tau Protein Aggregation. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3276-3282	6.4	34
149	GTP-Dependent K-Ras Dimerization. <i>Structure</i> , <b>2015</b> , 23, 1325-35	5.2	145

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2 The structural basis of the oncogenic mutant K-Ras4B homodimers 1

1 The Mechanism of Activation of Monomeric B-Raf V600E 1