

Gourisankar Ghosh

List of Publications by Year in descending order

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156
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156
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of Protein Kinases. <i>Molecular Cell</i> , 2004, 15, 661-675.	9.7	972
2	The Crystal Structure of the I κ B β /NF- κ B Complex Reveals Mechanisms of NF- κ B Inactivation. <i>Cell</i> , 1998, 95, 759-770.	28.9	592
3	Structure of NF- κ B p50 homodimer bound to a κ B site. <i>Nature</i> , 1995, 373, 303-310.	27.8	571
4	Crystal structure of p50/p65 heterodimer of transcription factor NF- κ B bound to DNA. <i>Nature</i> , 1998, 391, 410-413.	27.8	514
5	A Fourth I κ B Protein within the NF- κ B Signaling Module. <i>Cell</i> , 2007, 128, 369-381.	28.9	359
6	Activation of IKK γ target genes depends on recognition of specific κ B binding sites by RelB:p52 dimers. <i>EMBO Journal</i> , 2004, 23, 4202-4210.	7.8	299
7	Regulation of DNA binding by Rel/NF- κ B transcription factors: structural views. <i>Oncogene</i> , 1999, 18, 6845-6852.	5.9	283
8	A novel DNA recognition mode by the NF- κ B p65 homodimer. <i>Nature Structural Biology</i> , 1998, 5, 67-73.	9.7	218
9	PRMT5 dimethylates R30 of the p65 subunit to activate NF- κ B. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13516-13521.	7.1	205
10	Interaction between the RNA binding domains of Ser-Arg splicing factor 1 and U1-70K snRNP protein determines early spliceosome assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8233-8238.	7.1	180
11	Interplay between SRPK and Clk/Sty Kinases in Phosphorylation of the Splicing Factor ASF/SF2 Is Regulated by a Docking Motif in ASF/SF2. <i>Molecular Cell</i> , 2005, 20, 77-89.	9.7	179
12	NF- κ B dictates the degradation pathway of I κ B β . <i>EMBO Journal</i> , 2008, 27, 1357-1367.	7.8	171
13	Crystal structure of NF- κ B (p50) ₂ complexed to a high-affinity RNA aptamer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9268-9273.	7.1	161
14	Regulation of SR protein phosphorylation and alternative splicing by modulating kinetic interactions of SRPK1 with molecular chaperones. <i>Genes and Development</i> , 2009, 23, 482-495.	5.9	160
15	Phosphorylation mechanism and structure of serine-arginine protein kinases. <i>FEBS Journal</i> , 2011, 278, 587-597.	4.7	159
16	I κ B β ² , but Not I κ B β , Functions as a Classical Cytoplasmic Inhibitor of NF- κ B Dimers by Masking Both NF- κ B Nuclear Localization Sequences in Resting Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 45225-45235.	3.4	152
17	NF- κ B regulation: lessons from structures. <i>Immunological Reviews</i> , 2012, 246, 36-58.	6.0	149
18	I κ B β Functions through Direct Contacts with the Nuclear Localization Signals and the DNA Binding Sequences of NF- κ B. <i>Journal of Biological Chemistry</i> , 1998, 273, 25427-25435.	3.4	148

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19	NF- κ B, I κ B, and IKK: Integral Components of Immune System Signaling. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1172, 207-226.	1.6	145
20	Structure of the Oligomerization and L-Arginine Binding Domain of the Arginine Repressor of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1996, 256, 377-391.	4.2	144
21	Mechanism of I κ B DNA binding by Rel/NF- κ B dimers. <i>Journal of Biological Chemistry</i> , 2000, 275, 24392-24399.	3.4	120
22	The Nfkb1 and Nfkb2 Proteins p105 and p100 Function as the Core of High-Molecular-Weight Heterogeneous Complexes. <i>Molecular Cell</i> , 2009, 34, 591-602.	9.7	120
23	The 20S proteasome processes NF- κ B1 p105 into p50 in a translation-independent manner. <i>EMBO Journal</i> , 2006, 25, 1945-1956.	7.8	118
24	Analysis of the RelA:CBP/p300 Interaction Reveals Its Involvement in NF- κ B-Driven Transcription. <i>PLoS Biology</i> , 2013, 11, e1001647.	5.6	118
25	PKR and eIF2 γ : Integration of Kinase Dimerization, Activation, and Substrate Docking. <i>Cell</i> , 2005, 122, 823-825.	28.9	112
26	A c-Rel subdomain responsible for enhanced DNA-binding affinity and selective gene activation. <i>Genes and Development</i> , 2005, 19, 2138-2151.	5.9	111
27	Enhanced Intracellular Mobility and Nuclear Accumulation of DNA Plasmids Associated with a Karyophilic Protein. <i>Human Gene Therapy</i> , 2005, 16, 200-208.	2.7	109
28	X-ray Crystal Structure of an I κ B γ -NF- κ B p65 Homodimer Complex. <i>Journal of Biological Chemistry</i> , 2003, 278, 23094-23100.	3.4	107
29	The X-ray Crystal Structure of the NF- κ B p50-p65 Heterodimer Bound to the Interferon γ -I κ B Site. <i>Journal of Biological Chemistry</i> , 2002, 277, 24694-24700.	3.4	106
30	Kinase Domain Insertions Define Distinct Roles of CLK Kinases in SR Protein Phosphorylation. <i>Structure</i> , 2009, 17, 352-362.	3.3	106
31	A Structural Guide to Proteins of the NF- κ B Signaling Module. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a000075-a000075.	5.5	102
32	Biophysical characterization of the free I κ B γ ankyrin repeat domain in solution. <i>Protein Science</i> , 2004, 13, 1767-1777.	7.6	101
33	A Sliding Docking Interaction Is Essential for Sequential and Processive Phosphorylation of an SR Protein by SRPK1. <i>Molecular Cell</i> , 2008, 29, 563-576.	9.7	98
34	Processive phosphorylation of alternative splicing factor/splicing factor 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12601-12606.	7.1	97
35	Mechanism of I κ B γ Binding to NF- κ B Dimers. <i>Journal of Biological Chemistry</i> , 2000, 275, 29840-29846.	3.4	95
36	Kinetic control of negative feedback regulators of NF- κ B/RelA determines their pathogen- and cytokine-receptor signaling specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9619-9624.	7.1	94

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37	A Structural Basis for I κ B Kinase 2 Activation Via Oligomerization-Dependent Trans Auto-Phosphorylation. <i>PLoS Biology</i> , 2013, 11, e1001581.	5.6	93
38	Attenuation of yeast UPR is essential for survival and is mediated by IRE1 kinase. <i>Journal of Cell Biology</i> , 2011, 193, 41-50.	5.2	92
39	X-Ray Crystal Structure of Proto-Oncogene Product c-Rel Bound to the CD28 Response Element of IL-2. <i>Structure</i> , 2001, 9, 669-678.	3.3	89
40	Kinetic enhancement of NF- κ B-DNA dissociation by I κ B β . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19328-19333.	7.1	88
41	The Transcriptional Specificity of NF- κ B Dimers Is Coded within the κ B DNA Response Elements. <i>Cell Reports</i> , 2012, 2, 824-839.	6.4	86
42	NEMO Ensures Signaling Specificity of the Pleiotropic IKK β by Directing Its Kinase Activity toward I κ B β . <i>Molecular Cell</i> , 2012, 47, 111-121.	9.7	85
43	Mass Spectrometric and Kinetic Analysis of ASF/SF2 Phosphorylation by SRPK1 and Clk/Sty. <i>Journal of Biological Chemistry</i> , 2005, 280, 41761-41768.	3.4	82
44	The κ B DNA Sequence from the HIV Long Terminal Repeat Functions as an Allosteric Regulator of HIV Transcription. <i>Journal of Biological Chemistry</i> , 2002, 277, 24701-24708.	3.4	81
45	Genome reading by the NF- κ B transcription factors. <i>Nucleic Acids Research</i> , 2019, 47, 9967-9989.	14.5	78
46	The role of DNA in the mechanism of NF κ B dimer formation: crystal structures of the dimerization domains of the p50 and p65 subunits. <i>Structure</i> , 1997, 5, 1427-1436.	3.3	75
47	The Specificity of Innate Immune Responses Is Enforced by Repression of Interferon Response Elements by NF- κ B p50. <i>Science Signaling</i> , 2011, 4, ra11.	3.6	75
48	The structure of Sky1p reveals a novel mechanism for constitutive activity. <i>Nature Structural Biology</i> , 2001, 8, 176-183.	9.7	70
49	Thermodynamics Reveal that Helix Four in the NLS of NF- κ B p65 Anchors I κ B β , Forming a Very Stable Complex. <i>Journal of Molecular Biology</i> , 2006, 360, 421-434.	4.2	69
50	Characterization of the Dimer Interface of Transcription Factor NF κ B p50 Homodimer. <i>Journal of Molecular Biology</i> , 1999, 289, 1029-1040.	4.2	67
51	NF- κ B p65 (RelA) homodimer uses distinct mechanisms to recognize DNA targets. <i>Structure</i> , 2000, 8, 419-428.	3.3	65
52	NF κ B p52:RelB heterodimer recognizes two classes of κ B sites with two distinct modes. <i>EMBO Reports</i> , 2009, 10, 152-159.	4.5	65
53	Transcriptional Outcome of Wnt-Frizzled Signal Transduction in Inflammation: Evolving Concepts. <i>Journal of Immunology</i> , 2008, 181, 4441-4445.	0.8	64
54	Pre-folding I κ B β Alters Control of NF- κ B Signaling. <i>Journal of Molecular Biology</i> , 2008, 380, 67-82.	4.2	58

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55	Stabilization of RelB Requires Multidomain Interactions with p100/p52. <i>Journal of Biological Chemistry</i> , 2008, 283, 12324-12332.	3.4	58
56	p100/I κ B β sequesters and inhibits NF- κ B through kappaBsome formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15946-15951.	7.1	54
57	X-ray Structure of a NF- κ B p50/RelB/DNA Complex Reveals Assembly of Multiple Dimers on Tandem κ B Sites. <i>Journal of Molecular Biology</i> , 2007, 373, 723-734.	4.2	50
58	Crystal Structure of a Free κ B DNA: Insights into DNA Recognition by Transcription Factor NF- κ B. <i>Journal of Molecular Biology</i> , 2005, 346, 147-160.	4.2	49
59	Construction, expression, purification and functional analysis of recombinant NF- κ B p50/p65 heterodimer. <i>Protein Engineering, Design and Selection</i> , 1999, 12, 423-428.	2.1	48
60	The I κ B β /NF- κ B complex has two hot spots, one at either end of the interface. <i>Protein Science</i> , 2008, 17, 2051-2058.	7.6	48
61	Structural Basis for the Activation of IKK1/I κ B. <i>Cell Reports</i> , 2016, 17, 1907-1914.	6.4	47
62	Bcl3 Phosphorylation by Akt, Erk2, and IKK Is Required for Its Transcriptional Activity. <i>Molecular Cell</i> , 2017, 67, 484-497.e5.	9.7	47
63	Inhibition of NF- κ B Activity by I κ B β 2 in Association with κ B-Ras. <i>Molecular and Cellular Biology</i> , 2004, 24, 3048-3056.	2.3	46
64	Molecular mimicry of the NF- κ B DNA target site by a selected RNA aptamer. <i>Current Opinion in Structural Biology</i> , 2004, 14, 21-27.	5.7	46
65	Ordered Multi-site Phosphorylation of the Splicing Factor ASF/SF2 By SRPK1. <i>Journal of Molecular Biology</i> , 2008, 376, 55-68.	4.2	46
66	NF- κ B RelB Forms an Intertwined Homodimer. <i>Structure</i> , 2005, 13, 1365-1373.	3.3	45
67	Adaptable Molecular Interactions Guide Phosphorylation of the SR Protein ASF/SF2 by SRPK1. <i>Journal of Molecular Biology</i> , 2008, 382, 894-909.	4.2	44
68	Contribution of Non-catalytic Core Residues to Activity and Regulation in Protein Kinase A. <i>Journal of Biological Chemistry</i> , 2009, 284, 6241-6248.	3.4	44
69	Role of lysine methylation of NF- κ B in differential gene regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13510-13515.	7.1	42
70	The SRSF1 linker induces semi-conservative ESE binding by cooperating with the RRMs. <i>Nucleic Acids Research</i> , 2011, 39, 9413-9421.	14.5	41
71	I κ B β 2 enhances the generation of the low-affinity NF- κ B/RelA homodimer. <i>Nature Communications</i> , 2015, 6, 7068.	12.8	41
72	N-terminus of the protein kinase CLK1 induces SR protein hyperphosphorylation. <i>Biochemical Journal</i> , 2014, 462, 143-152.	3.7	35

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73	Dissecting the Regulatory Strategies of NF- κ B RelA Target Genes in the Inflammatory Response Reveals Differential Transactivation Logics. <i>Cell Reports</i> , 2020, 30, 2758-2775.e6.	6.4	35
74	Mechanism of Dephosphorylation of the SR Protein ASF/SF2 by Protein Phosphatase 1. <i>Journal of Molecular Biology</i> , 2010, 403, 386-404.	4.2	33
75	κ B-Ras Binds to the Unique Insert within the Ankyrin Repeat Domain of κ B β 2 and Regulates Cytoplasmic Retention of κ B β 2-NF- κ B Complexes. <i>Journal of Biological Chemistry</i> , 2003, 278, 23101-23106.	3.4	32
76	SR Protein Kinase 1 Is Resilient to Inactivation. <i>Structure</i> , 2007, 15, 123-133.	3.3	32
77	Solvent Exposed Non-contacting Amino Acids Play a Critical Role in NF- κ B/ κ B β 1 Complex Formation. <i>Journal of Molecular Biology</i> , 2002, 324, 587-597.	4.2	31
78	p105/ κ B β 3 and Prototypical κ Bs Use a Similar Mechanism to Bind but a Different Mechanism to Regulate the Subcellular Localization of NF- κ B. <i>Journal of Biological Chemistry</i> , 2003, 278, 556-566.	3.4	31
79	Regiospecific Phosphorylation Control of the SR Protein ASF/SF2 by SRPK1. <i>Journal of Molecular Biology</i> , 2009, 390, 618-634.	4.2	31
80	An NF- κ B Activity Calculator to Delineate Signaling Crosstalk: Type I and II Interferons Enhance NF- κ B via Distinct Mechanisms. <i>Frontiers in Immunology</i> , 2019, 10, 1425.	4.8	31
81	Immunosuppression of Macrophages Underlies the Cardioprotective Effects of CST (Catestatin). <i>Hypertension</i> , 2021, 77, 1670-1682.	2.7	31
82	Deficiency in classical nonhomologous end-joining-mediated repair of transcribed genes is linked to SCA3 pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8154-8165.	7.1	28
83	Nucleotide-Induced Conformational Changes in the <i>Saccharomyces cerevisiae</i> SR Protein Kinase, Sky1p, Revealed by X-ray Crystallography. <i>Biochemistry</i> , 2003, 42, 9575-9585.	2.5	26
84	Pho5p and Newly Identified Nucleotide Pyrophosphatases/ Phosphodiesterases Regulate Extracellular Nucleotide Phosphate Metabolism in <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , 2005, 4, 1892-1901.	3.4	26
85	Structural disruption of exonic stem-loops immediately upstream of the intron regulates mammalian splicing. <i>Nucleic Acids Research</i> , 2020, 48, 6294-6309.	14.5	24
86	Deletion of the N-terminus of SF2/ASF Permits RS-Domain-Independent Pre-mRNA Splicing. <i>PLoS ONE</i> , 2007, 2, e854.	2.5	23
87	Inhibitor κ B Kinase β 2 Binding by Inhibitor κ B Kinase β 3. <i>Biochemistry</i> , 2007, 46, 12482-12490.	2.5	22
88	DNA-binding affinity and transcriptional activity of the RelA homodimer of nuclear factor κ B are not correlated. <i>Journal of Biological Chemistry</i> , 2017, 292, 18821-18830.	3.4	22
89	The RGG Domain of Npl3p Recruits Sky1p Through Docking Interactions. <i>Journal of Molecular Biology</i> , 2007, 367, 249-261.	4.2	21
90	Mechanistic Insights into Sky1p, a Yeast Homologue of the Mammalian SR Protein Kinases. <i>Biochemistry</i> , 2002, 41, 10002-10009.	2.5	19

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91	Understanding the Logic of I κ B:NF- κ B Regulation in Structural Terms. <i>Current Topics in Microbiology and Immunology</i> , 2010, 349, 1-24.	1.1	19
92	Flexible Regions within I κ B β Create the Ubiquitin-independent Degradation Signal. <i>Journal of Biological Chemistry</i> , 2010, 285, 32927-32936.	3.4	17
93	Preparation and Crystallization of Dynamic NF- κ B-I κ B Complexes. <i>Journal of Biological Chemistry</i> , 2000, 275, 32800-32806.	3.4	16
94	Structurally Unique Yeast and Mammalian Serine-Arginine Protein Kinases Catalyze Evolutionarily Conserved Phosphorylation Reactions. <i>Journal of Biological Chemistry</i> , 2007, 282, 23036-23043.	3.4	16
95	The NF- κ B subunit RelB controls p100 processing by competing with the kinases NIK and IKK1 for binding to p100. <i>Science Signaling</i> , 2016, 9, ra96.	3.6	16
96	Protein Cofactors Are Essential for High-Affinity DNA Binding by the Nuclear Factor κ B RelA Subunit. <i>Biochemistry</i> , 2018, 57, 2943-2957.	2.5	16
97	Identifying Critical Non-Catalytic Residues that Modulate Protein Kinase A Activity. <i>PLoS ONE</i> , 2009, 4, e4746.	2.5	15
98	Origin of the Functional Distinctiveness of NF- κ B/p52. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 764164.	3.7	15
99	Chemical Clamping Allows for Efficient Phosphorylation of the RNA Carrier Protein Npl3. <i>Journal of Biological Chemistry</i> , 2004, 279, 30182-30188.	3.4	14
100	NF- κ B Potentiates Caspase Independent Hydrogen Peroxide Induced Cell Death. <i>PLoS ONE</i> , 2011, 6, e16815.	2.5	14
101	A Structural Basis for Selective Dimerization by NF- κ B RelB. <i>Journal of Molecular Biology</i> , 2013, 425, 1934-1945.	4.2	14
102	Intrapulmonary administration of purified NEIL2 abrogates NF- κ B-mediated inflammation. <i>Journal of Biological Chemistry</i> , 2021, 296, 100723.	3.4	14
103	Discreet mutations from c-Rel to v-Rel alter κ B DNA recognition, I κ B β binding, and dimerization: implications for v-Rel oncogenicity. <i>Oncogene</i> , 2004, 23, 1229-1238.	5.9	13
104	Regulatory subunit NEMO promotes polyubiquitin-dependent induction of NF- κ B through a targetable second interaction with upstream activator IKK2. <i>Journal of Biological Chemistry</i> , 2022, 298, 101864.	3.4	11
105	Inhibition of Transcription Factor NF- κ B Activation by κ B β Ras. <i>Methods in Enzymology</i> , 2006, 407, 527-534.	1.0	8
106	Dynamic chromatin association of I κ B β is regulated by acetylation and cleavage of histone H4. <i>EMBO Reports</i> , 2021, 22, e52649.	4.5	8
107	Probing Kinase Activation and Substrate Specificity with an Engineered Monomeric IKK2. <i>Biochemistry</i> , 2014, 53, 2064-2073.	2.5	7
108	Discovery of a pre-mRNA structural scaffold as a contributor to the mammalian splicing code. <i>Nucleic Acids Research</i> , 2021, 49, 7103-7121.	14.5	7

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109	Identification of Functionally Distinct Regions That Mediate Biological Activity of the Protein Kinase A Homolog Tpk2. <i>Journal of Biological Chemistry</i> , 2008, 283, 1084-1093.	3.4	5
110	Understanding NIK Regulation from Its Structure. <i>Structure</i> , 2012, 20, 1615-1617.	3.3	5
111	Structurally plastic NEMO and oligomerization prone IKK2 subunits define the behavior of human IKK2:NEMO complexes in solution. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140526.	2.3	5
112	PABP1 Drives the Selective Translation of Influenza A Virus mRNA. <i>Journal of Molecular Biology</i> , 2022, 434, 167460.	4.2	5
113	Pieces of the puzzle: assembling the preinitiation complex of Pol II. <i>Structure</i> , 1996, 4, 891-895.	3.3	4
114	A New DNA Methyltransferase-Histone Deacetylase-Kinase Axis in Innate Immunity. <i>Molecular Cell</i> , 2016, 63, 544-546.	9.7	1
115	To Swap or Not To Swap. <i>Structure</i> , 2016, 24, 1436-1438.	3.3	0
116	Construing the Dynamic Complexity at a Plausible IKK2-Nemo Interface. <i>Biophysical Journal</i> , 2017, 112, 352a.	0.5	0
117	A Guide to Production, Crystallization, and Structure Determination of Human IKK1/2. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	0
118	Structural Aspects of NF- κ B and I κ B Proteins. , 2006, , 9-24.		0
119	Recognition of Nucleic Acids by Transcription Factor NF- κ B. <i>Biological and Medical Physics Series</i> , 2010, , 85-106.	0.4	0
120	Challenges and Insights in Regulation of p53 and NF- κ B Transcription Factors: Making the Case for Cancer Prevention from the Environmental-Physiological Paradigm. <i>FASEB Journal</i> , 2018, 32, 648.22.	0.5	0
121	A mechanism for signal-dependent IKK β activation driven by molecular interactions with polyubiquitin-bound NEMO. <i>FASEB Journal</i> , 2018, 32, 662.10.	0.5	0
122	Structural Analysis of NF- κ B and I κ B Proteins. , 2006, , 1-11.		0