

Andrew P Hinck

List of Publications by Year in descending order

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93
papers

4,562
citations

108046

37
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124990

64
g-index

102
all docs

102
docs citations

102
times ranked

6091
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Biology and Evolution of the TGF- β Family. Cold Spring Harbor Perspectives in Biology, 2016, 8, a022103.	2.3	267
2	Cooperative Assembly of TGF- β Superfamily Signaling Complexes Is Mediated by Two Disparate Mechanisms and Distinct Modes of Receptor Binding. Molecular Cell, 2008, 29, 157-168.	4.5	247
3	Structural Basis of J Cochaperone Binding and Regulation of Hsp70. Molecular Cell, 2007, 28, 422-433.	4.5	206
4	Structural studies of the TGF- β s and their receptors – insights into evolution of the TGF- β superfamily. FEBS Letters, 2012, 586, 1860-1870.	1.3	185
5	Transforming Growth Factor β 1: Three-Dimensional Structure in Solution and Comparison with the X-ray Structure of Transforming Growth Factor β 2. Biochemistry, 1996, 35, 8517-8534.	1.2	175
6	A structurally distinct TGF- β mimic from an intestinal helminth parasite potently induces regulatory T cells. Nature Communications, 2017, 8, 1741.	5.8	159
7	Atomic-resolution structures from fragmented protein crystals with the cryoEM method MicroED. Nature Methods, 2017, 14, 399-402.	9.0	158
8	Effects of amino acid substitutions on the pressure denaturation of staphylococcal nuclease as monitored by fluorescence and nuclear magnetic resonance spectroscopy. Biochemistry, 1993, 32, 5222-5232.	1.2	141
9	Ternary Complex of Transforming Growth Factor- β 1 Reveals Isoform-specific Ligand Recognition and Receptor Recruitment in the Superfamily. Journal of Biological Chemistry, 2010, 285, 14806-14814.	1.6	135
10	Multiple-Quantum Line Narrowing for Measurement of H.alpha.-H.beta. J Couplings in Isotopically Enriched Proteins. Journal of the American Chemical Society, 1995, 117, 5312-5315.	6.6	130
11	Crystal structure of the human β 2R2 ectodomain- β 3 complex. Nature Structural Biology, 2002, 9, 203-8.	9.7	130
12	TGF- β uses a novel mode of receptor activation to phosphorylate SMAD1/5 and induce epithelial-to-mesenchymal transition. Elife, 2018, 7, .	2.8	119
13	Solvent effects on the energetics of prolyl peptide bond isomerization. Journal of the American Chemical Society, 1992, 114, 5437-5439.	6.6	109
14	TGF- β signalling is mediated by two autonomously functioning β RI: β RII pairs. EMBO Journal, 2011, 30, 1263-1276.	3.5	98
15	High resolution solution structure of ribosomal protein L11-C76, a helical protein with a flexible loop that becomes structured upon binding to RNA. Nature Structural and Molecular Biology, 1997, 4, 70-77.	3.6	97
16	Structural basis for potency differences between GDF8 and GDF11. BMC Biology, 2017, 15, 19.	1.7	90
17	Polycomb Group Targeting through Different Binding Partners of RING1B C-Terminal Domain. Structure, 2010, 18, 966-975.	1.6	81
18	Schistosoma mansoni: TGF- β signaling pathways. Experimental Parasitology, 2007, 117, 304-317.	0.5	80

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19	Three Key Residues Underlie the Differential Affinity of the TGF β Isoforms for the TGF β Type II Receptor. <i>Journal of Molecular Biology</i> , 2006, 355, 47-62.	2.0	77
20	ALK1 signaling in development and disease: new paradigms. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 4539-4560.	2.4	76
21	Three-dimensional solution structure of the HIV-1 protease complexed with DMP323, a novel cyclic urea-type inhibitor, determined by nuclear magnetic resonance spectroscopy. <i>Protein Science</i> , 1996, 5, 495-506.	3.1	72
22	Assembly of T β R β I:T β R β II:TGF β Ternary Complex in vitro with Receptor Extracellular Domains is Cooperative and Isoform-dependent. <i>Journal of Molecular Biology</i> , 2005, 354, 1052-1068.	2.0	71
23	D2HGDH regulates alpha-ketoglutarate levels and dioxygenase function by modulating IDH2. <i>Nature Communications</i> , 2015, 6, 7768.	5.8	64
24	Coupling between local structure and global stability of a protein: mutants of staphylococcal nuclease. <i>Biochemistry</i> , 1990, 29, 4516-4525.	1.2	58
25	The RNA binding domain of ribosomal protein L11: three-dimensional structure of the RNA-bound form of the protein and its interaction with 23 S rRNA. <i>Journal of Molecular Biology</i> , 1997, 274, 101-113.	2.0	57
26	Binding Affinity of Transforming Growth Factor- β for Its Type II Receptor Is Determined by the C-terminal Region of the Molecule. <i>Journal of Biological Chemistry</i> , 1996, 271, 30656-30662.	1.6	56
27	Two-dimensional NMR studies of staphylococcal nuclease. 2. Sequence-specific assignments of carbon-13 and nitrogen-15 signals from the nuclease H124L-thymidine 3',5'-bisphosphate-calcium ternary complex. <i>Biochemistry</i> , 1990, 29, 102-113.	1.2	55
28	The Growth-Suppressive Function of the Polycomb Group Protein Polyhomeotic Is Mediated by Polymerization of Its Sterile Alpha Motif (SAM) Domain. <i>Journal of Biological Chemistry</i> , 2012, 287, 8702-8713.	1.6	54
29	Biological Activity Differences between TGF- β 1 and TGF- β 3 Correlate with Differences in the Rigidity and Arrangement of Their Component Monomers. <i>Biochemistry</i> , 2014, 53, 5737-5749.	1.2	54
30	T β R-II Discriminates the High- and Low-Affinity TGF- β Isoforms via Two Hydrogen-Bonded Ion Pairs. <i>Biochemistry</i> , 2009, 48, 2146-2155.	1.2	53
31	Solution studies of staphylococcal nuclease H124L. 2. Proton, carbon-13, and nitrogen-15 chemical shift assignments for the unligated enzyme and analysis of chemical shift changes that accompany formation of the nuclease-thymidine 3',5'-bisphosphate-calcium ternary complex. <i>Biochemistry</i> , 1992, 31, 921-936.	1.2	51
32	The Solution Structure of the Regulatory Domain of Tyrosine Hydroxylase. <i>Journal of Molecular Biology</i> , 2014, 426, 1483-1497.	2.0	47
33	Dynamic Interactions between Clathrin and Locally Structured Elements in a Disordered Protein Mediate Clathrin Lattice Assembly. <i>Journal of Molecular Biology</i> , 2010, 404, 274-290.	2.0	46
34	Structural characterization of an activin class ternary receptor complex reveals a third paradigm for receptor specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15505-15513.	3.3	46
35	A Novel TGF β Trap Blocks Chemotherapeutics-Induced TGF β 1 Signaling and Enhances Their Anticancer Activity in Gynecologic Cancers. <i>Clinical Cancer Research</i> , 2018, 24, 2780-2793.	3.2	45
36	Engineered Disulfide Bonds in Staphylococcal Nuclease: Effects on the Stability and Conformation of the Folded Protein. <i>Biochemistry</i> , 1996, 35, 10328-10338.	1.2	44

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37	Structural biology of betaglycan and endoglin, membrane-bound co-receptors of the TGF-beta family. <i>Experimental Biology and Medicine</i> , 2019, 244, 1547-1558.	1.1	43
38	Betaglycan has Two Independent Domains Required for High Affinity TGF- \hat{I}^2 Binding: Proteolytic Cleavage Separates the Domains and Inactivates the Neutralizing Activity of the Soluble Receptor. <i>Biochemistry</i> , 2009, 48, 11755-11765.	1.2	42
39	NMR strategy for determining Xaa-Pro peptide bond configurations in proteins: Mutants of staphylococcal nuclease with altered configuration at proline-117. <i>Biochemistry</i> , 1993, 32, 11810-11818.	1.2	40
40	Blockade of Autocrine TGF- \hat{I}^2 Signaling Inhibits Stem Cell Phenotype, Survival, and Metastasis of Murine Breast Cancer Cells. <i>Journal of Stem Cell Research & Therapy</i> , 2012, 02, 1-8.	0.3	38
41	Direct evidence for a phenylalanine site in the regulatory domain of phenylalanine hydroxylase. <i>Archives of Biochemistry and Biophysics</i> , 2011, 505, 250-255.	1.4	37
42	Structure of the Alk1 Extracellular Domain and Characterization of Its Bone Morphogenetic Protein (BMP) Binding Properties. <i>Biochemistry</i> , 2012, 51, 6328-6341.	1.2	35
43	Structure and Dynamics of the Homodimeric Dynein Light Chain km23. <i>Journal of Molecular Biology</i> , 2005, 352, 338-354.	2.0	34
44	An engineered transforming growth factor \hat{I}^2 (TGF- \hat{I}^2) monomer that functions as a dominant negative to block TGF- \hat{I}^2 signaling. <i>Journal of Biological Chemistry</i> , 2017, 292, 7173-7188.	1.6	34
45	Binding Properties of the Transforming Growth Factor- \hat{I}^2 Coreceptor Betaglycan: Proposed Mechanism for Potentiation of Receptor Complex Assembly and Signaling. <i>Biochemistry</i> , 2016, 55, 6880-6896.	1.2	33
46	A novel highly potent trivalent TGF- \hat{I}^2 receptor trap inhibits early-stage tumorigenesis and tumor cell invasion in murine Pten-deficient prostate glands. <i>Oncotarget</i> , 2016, 7, 86087-86102.	0.8	32
47	Solution Structure and Backbone Dynamics of the TGF- \hat{I}^2 Type II Receptor Extracellular Domain. <i>Biochemistry</i> , 2003, 42, 10126-10139.	1.2	28
48	Peptide ligands that use a novel binding site to target both TGF- \hat{I}^2 receptors. <i>Molecular BioSystems</i> , 2010, 6, 2392.	2.9	25
49	Production, Isolation, and Structural Analysis of Ligands and Receptors of the TGF- \hat{I}^2 Superfamily. <i>Methods in Molecular Biology</i> , 2016, 1344, 63-92.	0.4	25
50	Two-dimensional NMR studies of staphylococcal nuclease: evidence for conformational heterogeneity from hydrogen-1, carbon-13, and nitrogen-15 spin system assignments of the aromatic amino acids in the nuclease H124L-thymidine 3',5'-bisphosphate-calcium(2+) ternary complex. <i>Biochemistry</i> , 1990, 29, 4242-4253.	1.2	24
51	Sequential resonance assignments of the extracellular ligand binding domain of the human TGF-beta type II receptor. <i>Journal of Biomolecular NMR</i> , 2000, 18, 369-370.	1.6	24
52	Characterization of Ligand-Binding Properties of the Human BMP Type II Receptor Extracellular Domain. <i>Journal of Molecular Biology</i> , 2008, 378, 191-203.	2.0	23
53	Nuclear Magnetic Resonance Mapping and Functional Confirmation of the Collagen Binding Sites of Matrix Metalloproteinase-2. <i>Biochemistry</i> , 2009, 48, 5822-5831.	1.2	23
54	Structural Transitions of the RING1B C-Terminal Region upon Binding the Polycomb cbox Domain. <i>Biochemistry</i> , 2008, 47, 8007-8015.	1.2	21

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55	TGFBR3L is an inhibin B co-receptor that regulates female fertility. <i>Science Advances</i> , 2021, 7, eabl4391.	4.7	21
56	The T β R-I Pre-Helix Extension Is Structurally Ordered in the Unbound Form and Its Flanking Prolines Are Essential for Binding. <i>Journal of Molecular Biology</i> , 2011, 412, 601-618.	2.0	20
57	Solution structure of protein SRP19 of <i>Archaeoglobus fulgidus</i> signal recognition particle. <i>Journal of Molecular Biology</i> , 2002, 317, 145-158.	2.0	19
58	Nuclear Magnetic Resonance Structural Mapping Reveals Promiscuous Interactions between Clathrin-Box Motif Sequences and the N-Terminal Domain of the Clathrin Heavy Chain. <i>Biochemistry</i> , 2015, 54, 2571-2580.	1.2	19
59	Structures of TGF- β Receptor Complexes: Implications for Function and Therapeutic Intervention Using Ligand Traps. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 2081-2098.	0.9	18
60	Overexpression and purification of avian ovomucoid third domains in <i>Escherichia coli</i> . <i>Protein Engineering, Design and Selection</i> , 1993, 6, 221-227.	1.0	17
61	Expression, purification and characterization of BGERII: a novel pan-TGF β inhibitor. <i>Protein Engineering, Design and Selection</i> , 2008, 21, 463-473.	1.0	17
62	TGF- β 2 uses the concave surface of its extended finger region to bind betaglycan's ZP domain via three residues specific to TGF- β 2 and inhibin- β . <i>Journal of Biological Chemistry</i> , 2019, 294, 3065-3080.	1.6	15
63	The Amino Acid Specificity for Activation of Phenylalanine Hydroxylase Matches the Specificity for Stabilization of Regulatory Domain Dimers. <i>Biochemistry</i> , 2015, 54, 5167-5174.	1.2	14
64	Evaluation of competing J domain:Hsp70 complex models in light of existing mutational and NMR data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E734; author reply E735.	3.3	13
65	Divergence(s) in nodal signaling between aggressive melanoma and embryonic stem cells. <i>International Journal of Cancer</i> , 2015, 136, E242-51.	2.3	13
66	Structural Adaptation in Its Orphan Domain Engenders Betaglycan with an Alternate Mode of Growth Factor Binding Relative to Endoglin. <i>Structure</i> , 2019, 27, 1427-1442.e4.	1.6	12
67	Structure and Role of BCOR PUF β in Noncanonical PRC1 Assembly and Disease. <i>Biochemistry</i> , 2020, 59, 2718-2728.	1.2	12
68	Convergent evolution of a parasite-encoded complement control protein-scaffold to mimic binding of mammalian TGF- β 2 to its receptors, T β RI and T β RII. <i>Journal of Biological Chemistry</i> , 2022, 298, 101994.	1.6	12
69	Algorithm-assisted elucidation of disulfide structure: application of the negative signature mass algorithm to mass-mapping the disulfide structure of the 12-cysteine transforming growth factor β 2 type II receptor extracellular domain. <i>Analytical Biochemistry</i> , 2004, 329, 91-103.	1.1	11
70	Characterization of the SRP68/72 interface of human signal recognition particle by systematic site-directed mutagenesis. <i>Protein Science</i> , 2009, 18, 2183-2195.	3.1	11
71	Identification of Nucleic Acid Binding Residues in the FCS Domain of the Polycomb Group Protein Polyhomeotic. <i>Biochemistry</i> , 2011, 50, 4998-5007.	1.2	11
72	Novel TGF β 2 Inhibitors Ameliorate Oral Squamous Cell Carcinoma Progression and Improve the Antitumor Immune Response of Anti-PD-L1 Immunotherapy. <i>Molecular Cancer Therapeutics</i> , 2021, 20, 1102-1111.	1.9	11

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73	The conserved adenosine in helix 6 of <i>Archaeoglobus fulgidus</i> signal recognition particle RNA initiates SRP assembly. <i>Archaea</i> , 2004, 1, 269-275.	2.3	10
74	Human Polyhomeotic Homolog 3 (PHC3) Sterile Alpha Motif (SAM) Linker Allows Open-Ended Polymerization of PHC3 SAM. <i>Biochemistry</i> , 2012, 51, 5379-5386.	1.2	10
75	Histidine-121 of staphylococcal nuclease. Correction of the H δ 2 1H NMR assignment and reinterpretation of the role this residue plays in conformational heterogeneity of the protein. <i>Journal of the American Chemical Society</i> , 1990, 112, 9031-9034.	6.6	8
76	Characterization of Hydride Transfer to Flavin Adenine Dinucleotide in Neuronal Nitric Oxide Synthase Reductase Domain: Geometric Relationship between the Nicotinamide and Isoalloxazine Rings. <i>Archives of Biochemistry and Biophysics</i> , 2001, 395, 129-135.	1.4	7
77	Letter to the Editor: Sequential resonance assignments of the extracellular domain of the human TGF β 2 type II receptor in complex with monomeric TGF β 3. <i>Journal of Biomolecular NMR</i> , 2004, 29, 103-104.	1.6	7
78	TGF β 2 Antagonists: Same Knot, but Different Hold. <i>Structure</i> , 2013, 21, 1269-1270.	1.6	7
79	Complexes with truncated RNAs from the large domain of <i>Archaeoglobus fulgidus</i> signal recognition particle. <i>FEMS Microbiology Letters</i> , 2001, 198, 105-110.	0.7	6
80	Structure-guided engineering of TGF β 2s for the development of novel inhibitors and probing mechanism. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5239-5246.	1.4	6
81	In Search of "Hepatic Factor": Lack of Evidence for ALK1 Ligands BMP9 and BMP10. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 249-251.	2.5	6
82	<i>A. fulgidus</i> SRP54M-domain. <i>Journal of Biomolecular NMR</i> , 2008, 41, 241-8.	1.6	5
83	Distinct intramolecular interactions regulate autoinhibition of vinculin binding in β -T-catenin and β -E-catenin. <i>Journal of Biological Chemistry</i> , 2021, 296, 100582.	1.6	5
84	Sequence-specific 1H, 13C and 15N signal assignments and secondary structure of <i>archaeoglobusfulgidus</i> SRP19. <i>Journal of Biomolecular NMR</i> , 2001, 20, 187-188.	1.6	4
85	Model-free analysis for large proteins at high magnetic field strengths. <i>Journal of Biomolecular NMR</i> , 2007, 38, 315-324.	1.6	4
86	Case study of protein structure, stability, and function: NMR investigations of the proline residues in staphylococcal nuclease. <i>Pure and Applied Chemistry</i> , 1994, 66, 65-69.	0.9	4
87	Kinetic, Dynamic, Ligand Binding Properties, and Structural Models of a Dual-Substrate Specific Nudix Hydrolase from <i>Schizosaccharomyces pombe</i> . <i>Biochemistry</i> , 2009, 48, 6224-6239.	1.2	3
88	Backbone sequential resonance assignments of yeast iso-2 cytochrome c, reduced and oxidized forms. <i>Journal of Biomolecular NMR</i> , 2002, 22, 93-94.	1.6	2
89	Sequential Resonance Assignment of the Human BMP Type II Receptor Extracellular Domain. <i>Journal of Biomolecular NMR</i> , 2005, 32, 336-336.	1.6	2
90	Class II Cytokine Common Receptors: Something Old, Something New. <i>Structure</i> , 2010, 18, 551-552.	1.6	0

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91	Methyl-Labeling Assisted NMR Structure Determination of a 66 KDA Growth Factor-Receptor Complex. <i>Biophysical Journal</i> , 2017, 112, 487a-488a.	0.2	0
92	An introduction to the special issue on biomolecular NMR. <i>Archives of Biochemistry and Biophysics</i> , 2017, 628, 1-2.	1.4	0
93	Probing biomolecular structure, dynamics, and function using hydrogen exchange. <i>Archives of Biochemistry and Biophysics</i> , 2022, , 109185.	1.4	0