

# Thomas B Thompson

## List of Publications by Year in descending order

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80  
papers

3,636  
citations

136740

32  
h-index

143772

57  
g-index

88  
all docs

88  
docs citations

88  
times ranked

4335  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth differentiation factor 9:bone morphogenetic protein 15 heterodimers are potent regulators of ovarian functions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E776-85.	3.3	251
2	The Structure of the Follistatin:Activin Complex Reveals Antagonism of Both Type I and Type II Receptor Binding. Developmental Cell, 2005, 9, 535-543.	3.1	247
3	Structures of an ActRIIB:activin A complex reveal a novel binding mode for TGF-beta ligand:receptor interactions. EMBO Journal, 2003, 22, 1555-1566.	3.5	188
4	Structural Studies of the Parainfluenza Virus 5 Hemagglutinin-Neuraminidase Tetramer in Complex with Its Receptor, Sialyllactose. Structure, 2005, 13, 803-815.	1.6	187
5	The Structure of Apolipoprotein A-I in High Density Lipoproteins. Journal of Biological Chemistry, 2007, 282, 22249-22253.	1.6	176
6	Circulating Growth Differentiation Factor 11/8 Levels Decline With Age. Circulation Research, 2016, 118, 29-37.	2.0	161
7	Biochemistry and Biology of GDF11 and Myostatin. Circulation Research, 2016, 118, 1125-1142.	2.0	155
8	The structure of myostatin:follistatin 288: insights into receptor utilization and heparin binding. EMBO Journal, 2009, 28, 2662-2676.	3.5	148
9	The 1.5-Å... Resolution Crystal Structure of Bacterial Luciferase in Low Salt Conditions. Journal of Biological Chemistry, 1996, 271, 21956-21968.	1.6	122
10	Structural basis for potency differences between GDF8 and GDF11. BMC Biology, 2017, 15, 19.	1.7	90
11	Neural Network Prediction of the HIV-1 Protease Cleavage Sites. Journal of Theoretical Biology, 1995, 177, 369-379.	0.8	88
12	Structure of Myostatin-Follistatin-like 3. Journal of Biological Chemistry, 2012, 287, 1043-1053.	1.6	76
13	Three-Dimensional Structure of ATP:Corrinoid Adenosyltransferase from Salmonella typhimurium in Its Free State, Complexed with MgATP, or Complexed with Hydroxycobalamin and MgATP. Biochemistry, 2001, 40, 361-374.	1.2	72
14	Evolution of Enzymatic Activity in the Enolase Superfamily: Structure of o-Succinylbenzoate Synthase from Escherichia coli in Complex with Mg <sup>2+</sup> and o-Succinylbenzoate. Biochemistry, 2000, 39, 10662-10676.	1.2	71
15	Beta A versus beta B: is it merely a matter of expression?. Molecular and Cellular Endocrinology, 2004, 225, 9-17.	1.6	70
16	Molecular Biology of Inhibin Action. Seminars in Reproductive Medicine, 2004, 22, 269-276.	0.5	66
17	The Structure of FSTL3-Activin A Complex. Journal of Biological Chemistry, 2008, 283, 32831-32838.	1.6	63
18	The DAN family: Modulators of TGFβ <sup>2</sup> signaling and beyond. Protein Science, 2014, 23, 999-1012.	3.1	62

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19	A thumbwheel mechanism for APOA1 activation of LCAT activity in HDL[S]. <i>Journal of Lipid Research</i> , 2018, 59, 1244-1255.	2.0	59
20	Structure of the human myostatin precursor and determinants of growth factor latency. <i>EMBO Journal</i> , 2018, 37, 367-383.	3.5	58
21	Structural and Functional Analysis of Tetracenomyacin F2 Cyclase from <i>Streptomyces glaucescens</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 37956-37963.	1.6	54
22	Members of the DAN Family Are BMP Antagonists That Form Highly Stable Noncovalent Dimers. <i>Journal of Molecular Biology</i> , 2012, 424, 313-327.	2.0	54
23	Structure of Protein Related to Dan and Cerberus: Insights into the Mechanism of Bone Morphogenetic Protein Antagonism. <i>Structure</i> , 2013, 21, 1417-1429.	1.6	54
24	A consensus model of human apolipoprotein A-I in its monomeric and lipid-free state. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 1093-1099.	3.6	54
25	Three-Dimensional Structure of Adenosylcobinamide Kinase/Adenosylcobinamide Phosphate Guanylyltransferase from <i>Salmonella typhimurium</i> Determined to 2.3 Å... Resolution. <i>Biochemistry</i> , 1998, 37, 7686-7695.	1.2	46
26	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
27	Activin A forms a non-signaling complex with ACVR1 and type II Activin/BMP receptors via its finger 2 tip loop. <i>ELife</i> , 2020, 9, .	2.8	45
28	Cytochrome b5 reductase—cytochrome b5 as an active P450 redox enzyme system in <i>Phanerochaete chrysosporium</i> : Atypical properties and in vivo evidence of electron transfer capability to CYP63A2. <i>Archives of Biochemistry and Biophysics</i> , 2011, 509, 26-32.	1.4	40
29	BMP Antagonist Gremlin 2 Limits Inflammation After Myocardial Infarction. <i>Circulation Research</i> , 2016, 119, 434-449.	2.0	40
30	The Structure of Dimeric Apolipoprotein A-IV and Its Mechanism of Self-Association. <i>Structure</i> , 2012, 20, 767-779.	1.6	39
31	Structure of Gremlin-2 in Complex with GDF5 Gives Insight into DAN-Family-Mediated BMP Antagonism. <i>Cell Reports</i> , 2016, 16, 2077-2086.	2.9	37
32	Myostatin Stimulates, Not Inhibits, C2C12 Myoblast Proliferation. <i>Endocrinology</i> , 2014, 155, 670-675.	1.4	35
33	Alternative Binding Modes Identified for Growth and Differentiation Factor-associated Serum Protein (GASP) Family Antagonism of Myostatin. <i>Journal of Biological Chemistry</i> , 2015, 290, 7506-7516.	1.6	35
34	Structural perspective of BMP ligands and signaling. <i>Bone</i> , 2020, 140, 115549.	1.4	35
35	Three-Dimensional Structure of Adenosylcobinamide Kinase/Adenosylcobinamide Phosphate Guanylyltransferase (CobL) Complexed with GMP: A Evidence for a Substrate-Induced Transferase Active Site. <i>Biochemistry</i> , 1999, 38, 12995-13005.	1.2	33
36	Structure of Neuroblastoma Suppressor of Tumorigenicity 1 (NBL1). <i>Journal of Biological Chemistry</i> , 2015, 290, 4759-4771.	1.6	32

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37	Activins bind and signal via bone morphogenetic protein receptor type II (BMPR2) in immortalized gonadotrope-like cells. <i>Cellular Signalling</i> , 2013, 25, 2717-2726.	1.7	30
38	Molecular characterization of latent GDF8 reveals mechanisms of activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E866-E875.	3.3	30
39	Characterization of Follistatin-Type Domains and Their Contribution to Myostatin and Activin A Antagonism. <i>Molecular Endocrinology</i> , 2012, 26, 1167-1178.	3.7	28
40	Analysis of the Adenosylcobinamide Kinase/Adenosylcobinamide-phosphate Guanylyltransferase (CobU) Enzyme of <i>Salmonella typhimurium</i> LT2. <i>Journal of Biological Chemistry</i> , 2000, 275, 27576-27586.	1.6	26
41	The Structure of Human Apolipoprotein A-IV as Revealed by Stable Isotope-assisted Cross-linking, Molecular Dynamics, and Small Angle X-ray Scattering. <i>Journal of Biological Chemistry</i> , 2014, 289, 5596-5608.	1.6	26
42	MuSK is a BMP co-receptor that shapes BMP responses and calcium signaling in muscle cells. <i>Science Signaling</i> , 2016, 9, ra87.	1.6	26
43	Structural biology of the TGF $\beta$ family. <i>Experimental Biology and Medicine</i> , 2019, 244, 1530-1546.	1.1	26
44	Mutations in GDF11 and the extracellular antagonist, Follistatin, as a likely cause of Mendelian forms of orofacial clefting in humans. <i>Human Mutation</i> , 2019, 40, 1813-1825.	1.1	26
45	Structure of AMH bound to AMHR2 provides insight into a unique signaling pair in the TGF- $\beta$ family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	26
46	The orphan ligand, activin C, signals through activin receptor-like kinase 7. <i>ELife</i> , 0, 11, .	2.8	21
47	Development of a Small-Molecule Screening Method for Inhibitors of Cellular Response to Myostatin and Activin A. <i>Journal of Biomolecular Screening</i> , 2013, 18, 837-844.	2.6	20
48	Myostatin Attenuation In Vivo Reduces Adiposity, but Activates Adipogenesis. <i>Endocrinology</i> , 2016, 157, 282-291.	1.4	17
49	Coordinated Proliferation and Differentiation of Human-Induced Pluripotent Stem Cell-Derived Cardiac Progenitor Cells Depend on Bone Morphogenetic Protein Signaling Regulation by GREMLIN 2. <i>Stem Cells and Development</i> , 2017, 26, 678-693.	1.1	17
50	Structural Basis for a Functional Antagonist in the Transforming Growth Factor $\beta$ Superfamily. <i>Journal of Biological Chemistry</i> , 2005, 280, 40177-40186.	1.6	16
51	An Evaluation of the Crystal Structure of C-terminal Truncated Apolipoprotein A-I in Solution Reveals Structural Dynamics Related to Lipid Binding. <i>Journal of Biological Chemistry</i> , 2016, 291, 5439-5451.	1.6	16
52	Crystal structure of the WFIKKN2 follistatin domain reveals insight into how it inhibits growth differentiation factor 8 (GDF8) and GDF11. <i>Journal of Biological Chemistry</i> , 2019, 294, 6333-6343.	1.6	13
53	Analysis of the Interaction between Heparin and Follistatin and Heparin and Follistatin-Ligand Complexes Using Surface Plasmon Resonance. <i>Biochemistry</i> , 2012, 51, 6797-6803.	1.2	12
54	Myostatin regulates pituitary development and hepatic IGF1. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E1036-E1049.	1.8	12

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55	Mutational Analysis of the Putative Anti-Allergic Hormone (AMH) Binding Interface on its Type II Receptor, AMHR2. <i>Endocrinology</i> , 2020, 161, .	1.4	12
56	Role of Conserved Proline Residues in Human Apolipoprotein A-IV Structure and Function. <i>Journal of Biological Chemistry</i> , 2015, 290, 10689-10702.	1.6	11
57	Expression and purification of recombinant protein related to DAN and cerberus (PRDC). <i>Protein Expression and Purification</i> , 2012, 82, 389-395.	0.6	10
58	Improving the diffraction of apoA-IV crystals through extreme dehydration. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 105-110.	0.7	10
59	Small-angle X-ray Scattering of Apolipoprotein A-IV Reveals the Importance of Its Termini for Structural Stability. <i>Journal of Biological Chemistry</i> , 2013, 288, 4854-4866.	1.6	10
60	Analysis and identification of the Grem2 heparin/heparan sulfate-binding motif. <i>Biochemical Journal</i> , 2017, 474, 1093-1107.	1.7	10
61	The anti-sigma factor MucA of <i>Pseudomonas aeruginosa</i> : Dramatic differences of a mucA22 vs. a $\Delta$ mucA mutant in anaerobic acidified nitrite sensitivity of planktonic and biofilm bacteria in vitro and during chronic murine lung infection. <i>PLoS ONE</i> , 2019, 14, e0216401.	1.1	10
62	Molecular Mechanisms of AMH Signaling. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	10
63	Visceral adipose tissue remodeling in pancreatic ductal adenocarcinoma cachexia: the role of activin A signaling. <i>Scientific Reports</i> , 2022, 12, 1659.	1.6	8
64	Fibronectin-based scaffold domain proteins that bind myostatin: a patent evaluation of WO2014043344. <i>Expert Opinion on Therapeutic Patents</i> , 2015, 25, 619-624.	2.4	7
65	Characterization of the different oligomeric states of the DAN family antagonists SOSTDC1 and SOST. <i>Biochemical Journal</i> , 2020, 477, 3167-3182.	1.7	7
66	Structures of activin ligand traps using natural sets of type I and type II TGF $\beta$ 2 receptors. <i>IScience</i> , 2022, 25, 103590.	1.9	7
67	Analysis of the loop-helix interaction in bundle motif protein structures. <i>The Protein Journal</i> , 1995, 14, 559-566.	1.1	6
68	Reply to Mottershead et al.: GDF9:BMP15 heterodimers are potent regulators of ovarian functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2258-E2258.	3.3	6
69	Deletion of Gremlin-2 alters estrous cyclicity and disrupts female fertility in mice. <i>Biology of Reproduction</i> , 2021, 105, 1205-1220.	1.2	6
70	Amino Acid 72 of Mouse and Human GDF9 Mature Domain Is Responsible for Altered Homodimer Bioactivities but Has Subtle Effects on GDF9:BMP15 Heterodimer Activities1. <i>Biology of Reproduction</i> , 2014, 91, 142.	1.2	4
71	Functional recombinant apolipoprotein A5 that is stable at high concentrations at physiological pH. <i>Journal of Lipid Research</i> , 2020, 61, 244-251.	2.0	4
72	Characterization of tolloid-mediated cleavage of the GDF8 procomplex. <i>Biochemical Journal</i> , 2021, 478, 1733-1747.	1.7	4

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73	Heparin-mediated dimerization of follistatin. <i>Experimental Biology and Medicine</i> , 2021, 246, 467-482.	1.1	3
74	New Insight Into Hyperemesis Gravidarum and a Potential Role for GDF15. <i>Endocrinology</i> , 2018, 159, 2698-2700.	1.4	2
75	FSTL3-Neutralizing Antibodies Enhance Glucose-Responsive Insulin Secretion in Dysfunctional Male Mouse and Human Islets. <i>Endocrinology</i> , 2021, 162, .	1.4	2
76	BMP and BMP Regulation: Structure and Function. , 2017, , 73-111.		1
77	Structural biology: Gaining atomic level insight into the biological function of macromolecules. <i>Experimental Biology and Medicine</i> , 2019, 244, 1507-1509.	1.1	1
78	Activins and Inhibins in Female Reproduction. , 2018, , 202-210.		0
79	Front Cover, Volume 40, Issue 10. <i>Human Mutation</i> , 2019, 40, i.	1.1	0
80	Structure of dimeric apoAâ€”IV: basis for HDL model. <i>FASEB Journal</i> , 2011, 25, 938.1.	0.2	0