

Benjamin T Goult

List of Publications by Year in descending order

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69
papers

4,542
citations

109321

35
h-index

114465

63
g-index

84
all docs

84
docs citations

84
times ranked

4256
citing authors

#	ARTICLE	IF	CITATIONS
1	The mechanical response of talin. <i>Nature Communications</i> , 2016, 7, 11966.	12.8	304
2	Mechanical activation of vinculin binding to talin locks talin in an unfolded conformation. <i>Scientific Reports</i> , 2014, 4, 4610.	3.3	296
3	The structure of an integrin/talin complex reveals the basis of inside-out signal transduction. <i>EMBO Journal</i> , 2009, 28, 3623-3632.	7.8	287
4	Talin tension sensor reveals novel features of focal adhesion force transmission and mechanosensitivity. <i>Journal of Cell Biology</i> , 2016, 213, 371-383.	5.2	205
5	Vinculin controls talin engagement with the actomyosin machinery. <i>Nature Communications</i> , 2015, 6, 10038.	12.8	175
6	Talin as a mechanosensitive signaling hub. <i>Journal of Cell Biology</i> , 2018, 217, 3776-3784.	5.2	174
7	RIAM and Vinculin Binding to Talin Are Mutually Exclusive and Regulate Adhesion Assembly and Turnover. <i>Journal of Biological Chemistry</i> , 2013, 288, 8238-8249.	3.4	169
8	The structure of the C-terminal actin-binding domain of talin. <i>EMBO Journal</i> , 2008, 27, 458-469.	7.8	159
9	Structural basis for the assembly of the SMRT/NCOR core transcriptional repression machinery. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 177-184.	8.2	156
10	Talin-KANK1 interaction controls the recruitment of cortical microtubule stabilizing complexes to focal adhesions. <i>ELife</i> , 2016, 5, .	6.0	150
11	The Structure of the Talin Head Reveals a Novel Extended Conformation of the FERM Domain. <i>Structure</i> , 2010, 18, 1289-1299.	3.3	132
12	Structure of a double ubiquitin-like domain in the talin head: a role in integrin activation. <i>EMBO Journal</i> , 2010, 29, 1069-1080.	7.8	127
13	Structural model and functional significance of pH-dependent talin-actin binding for focal adhesion remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14436-14441.	7.1	115
14	The Structure of an Interdomain Complex That Regulates Talin Activity. <i>Journal of Biological Chemistry</i> , 2009, 284, 15097-15106.	3.4	107
15	Structural studies on full-length talin1 reveal a compact auto-inhibited dimer: Implications for talin activation. <i>Journal of Structural Biology</i> , 2013, 184, 21-32.	2.8	100
16	Talin Dependent Mechanosensitivity of Cell Focal Adhesions. <i>Cellular and Molecular Bioengineering</i> , 2015, 8, 151-159.	2.1	84
17	The Structure of the N-Terminus of Kindlin-1: A Domain Important for β_3 Integrin Activation. <i>Journal of Molecular Biology</i> , 2009, 394, 944-956.	4.2	80
18	The IDOL-UBE2D complex mediates sterol-dependent degradation of the LDL receptor. <i>Genes and Development</i> , 2011, 25, 1262-1274.	5.9	75

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19	Structural Determinants of Integrin Binding to the Talin Rod. <i>Journal of Biological Chemistry</i> , 2009, 284, 8866-8876.	3.4	73
20	Studies on the morphology and spreading of human endothelial cells define key inter- and intramolecular interactions for talin1. <i>European Journal of Cell Biology</i> , 2010, 89, 661-673.	3.6	71
21	LD Motif Recognition by Talin: Structure of the Talin-DLC1 Complex. <i>Structure</i> , 2016, 24, 1130-1141.	3.3	68
22	The tale of two talins – two isoforms to fine-tune integrin signalling. <i>FEBS Letters</i> , 2018, 592, 2108-2125.	2.8	68
23	Structure calculation, refinement and validation using <i>CcpNmr Analysis</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 154-161.	2.5	67
24	Central Region of Talin Has a Unique Fold That Binds Vinculin and Actin. <i>Journal of Biological Chemistry</i> , 2010, 285, 29577-29587.	3.4	65
25	Talin Contains A C-Terminal Calpain2 Cleavage Site Important In Focal Adhesion Dynamics. <i>PLoS ONE</i> , 2012, 7, e34461.	2.5	59
26	The Structure of the Talin/Integrin Complex at a Lipid Bilayer: An NMR and MD Simulation Study. <i>Structure</i> , 2010, 18, 1280-1288.	3.3	57
27	FERM-dependent E3 ligase recognition is a conserved mechanism for targeted degradation of lipoprotein receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20107-20112.	7.1	53
28	A direct interaction between fascin and microtubules contributes to adhesion dynamics and cell migration. <i>Journal of Cell Science</i> , 2015, 128, 4601-14.	2.0	53
29	A Conserved Lipid-binding Loop in the Kindlin FERM F1 Domain Is Required for Kindlin-mediated β 3 Integrin Coactivation. <i>Journal of Biological Chemistry</i> , 2012, 287, 6979-6990.	3.4	52
30	A novel interaction between FRMD7 and CASK: evidence for a causal role in idiopathic infantile nystagmus. <i>Human Molecular Genetics</i> , 2013, 22, 2105-2118.	2.9	52
31	Mzt1/Tam4, a fission yeast MOZART1 homologue, is an essential component of the β -tubulin complex and directly interacts with GCP3 ^{Alp6} . <i>Molecular Biology of the Cell</i> , 2013, 24, 3337-3349.	2.1	44
32	Force-Dependent Binding Constants. <i>Biochemistry</i> , 2019, 58, 4696-4709.	2.5	44
33	Subcellular Localization of Talin Is Regulated by Inter-domain Interactions. <i>Journal of Biological Chemistry</i> , 2012, 287, 13799-13812.	3.4	43
34	Talin Autoinhibition Is Required for Morphogenesis. <i>Current Biology</i> , 2013, 23, 1825-1833.	3.9	43
35	Talin in mechanotransduction and mechanomemory at a glance. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	43
36	The Solution Structure of a Domain from the <i>Neisseria meningitidis</i> Lipoprotein PilP Reveals a New β -Sandwich Fold. <i>Journal of Molecular Biology</i> , 2006, 364, 186-195.	4.2	39

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37	Pre-complexation of talin and vinculin without tension is required for efficient nascent adhesion maturation. <i>ELife</i> , 2021, 10, .	6.0	36
38	Talin Autoinhibition Regulates Cell-ECM Adhesion Dynamics and Wound Healing In Vivo. <i>Cell Reports</i> , 2018, 25, 2401-2416.e5.	6.4	34
39	Force-Dependent Regulation of Talin-KANK1 Complex at Focal Adhesions. <i>Nano Letters</i> , 2019, 19, 5982-5990.	9.1	34
40	Force-Dependent Interactions between Talin and Full-Length Vinculin. <i>Journal of the American Chemical Society</i> , 2021, 143, 14726-14737.	13.7	34
41	Myosin-X and talin modulate integrin activity at filopodia tips. <i>Cell Reports</i> , 2021, 36, 109716.	6.4	33
42	Talin2-mediated traction force drives matrix degradation and cell invasion. <i>Journal of Cell Science</i> , 2016, 129, 3661-3674.	2.0	32
43	Adhesions Assemble! Autoinhibition as a Major Regulatory Mechanism of Integrin-Mediated Adhesion. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 144.	3.5	31
44	Rap1 binding to the talin 1 FO domain makes a minimal contribution to murine platelet GPIIb-IIIa activation. <i>Blood Advances</i> , 2018, 2, 2358-2368.	5.2	30
45	Talin mechanosensitivity is modulated by a direct interaction with cyclin-dependent kinase-1. <i>Journal of Biological Chemistry</i> , 2021, 297, 100837.	3.4	30
46	Direct binding of Talin to Rap1 is required for cell-ECM adhesion in <i>Drosophila</i> . <i>Journal of Cell Science</i> , 2018, 131, .	2.0	28
47	The Talin Head Domain Reinforces Integrin-Mediated Adhesion by Promoting Adhesion Complex Stability and Clustering. <i>PLoS Genetics</i> , 2014, 10, e1004756.	3.5	27
48	A Novel Mechanism for Calmodulin-Dependent Inactivation of Transient Receptor Potential Vanilloid 6. <i>Biochemistry</i> , 2018, 57, 2611-2622.	2.5	27
49	The Mechanical Basis of Memory – the MeshCODE Theory. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 592951.	2.9	24
50	The structure and selectivity of the SR protein SRSF2 RRM domain with RNA. <i>Nucleic Acids Research</i> , 2012, 40, 3232-3244.	14.5	22
51	The domain structure of talin: Residues 1815-1973 form a five-helix bundle containing a cryptic vinculin-binding site. <i>FEBS Letters</i> , 2010, 584, 2237-2241.	2.8	19
52	The Structural Basis of Calcium-Dependent Inactivation of the Transient Receptor Potential Vanilloid 5 Channel. <i>Biochemistry</i> , 2018, 57, 2623-2635.	2.5	18
53	Cancer associated talin point mutations disorganise cell adhesion and migration. <i>Scientific Reports</i> , 2021, 11, 347.	3.3	18
54	The Ansamycin Antibiotic, Rifamycin SV, Inhibits BCL6 Transcriptional Repression and Forms a Complex with the BCL6-BTB/POZ Domain. <i>PLoS ONE</i> , 2014, 9, e90889.	2.5	17

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55	Investigation of the Filamin A-Dependent Mechanisms of Tissue Factor Incorporation into Microvesicles. <i>Thrombosis and Haemostasis</i> , 2017, 117, 2034-2044.	3.4	17
56	Calcium-mediated Protein Folding and Stabilization of Salmonella Biofilm-associated Protein A. <i>Journal of Molecular Biology</i> , 2019, 431, 433-443.	4.2	17
57	Small-Angle X-ray Scattering and NMR Studies of the Conformation of the PDZ Region of SAP97 and Its Interactions with Kir2.1. <i>Biochemistry</i> , 2007, 46, 14117-14128.	2.5	16
58	High-Content Imaging of Unbiased Chemical Perturbations Reveals that the Phenotypic Plasticity of the Actin Cytoskeleton Is Constrained. <i>Cell Systems</i> , 2019, 9, 496-507.e5.	6.2	14
59	Chlamydial virulence factor TarP mimics talin to disrupt the talin-vinculin complex. <i>FEBS Letters</i> , 2018, 592, 1751-1760.	2.8	11
60	Biochemical Characterization of the Integrin Interactome. <i>Methods in Molecular Biology</i> , 2021, 2217, 115-147.	0.9	10
61	ProLIF: quantitative integrin protein-protein interactions and synergistic membrane effects on proteoliposomes. <i>Journal of Cell Science</i> , 2018, 132, .	2.0	9
62	Talin rod domain-containing protein 1 (TLNRD1) is a novel actin-bundling protein which promotes filopodia formation. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	9
63	Kindlin-1 Regulates Epidermal Growth Factor Receptor Signaling. <i>Journal of Investigative Dermatology</i> , 2019, 139, 369-379.	0.7	8
64	Assignment of ¹ H, ¹³ C, and ¹⁵ N resonances for the PilP pilot protein from <i>Neisseria meningitidis</i> . <i>Journal of Biomolecular NMR</i> , 2006, 36, 68-68.	2.8	3
65	NMR assignment of the C-terminal actin-binding domain of talin. <i>Biomolecular NMR Assignments</i> , 2008, 2, 17-19.	0.8	3
66	The ¹ H, ¹³ C and ¹⁵ N backbone and side-chain assignment of the RRM domain of SC35, a regulator of pre-mRNA splicing. <i>Biomolecular NMR Assignments</i> , 2011, 5, 7-10.	0.8	2
67	Mechano-Sensitive Interaction between Talin and Full-Length Vinculin. <i>Biophysical Journal</i> , 2016, 110, 23a.	0.5	0
68	The Mechanical Properties of Talin Rod Domain. <i>Biophysical Journal</i> , 2016, 110, 620a-621a.	0.5	0
69	The Limits of Phenotypic Plasticity in the Actin Cytoskeleton Revealed by Unbiased Chemical Perturbation. <i>SSRN Electronic Journal</i> , 0, .	0.4	0