

Peter A Rubenstein

List of Publications by Year in descending order

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90
papers

3,160
citations

147801

31
h-index

175258

52
g-index

91
all docs

91
docs citations

91
times ranked

2489
citing authors

#	ARTICLE	IF	CITATIONS
1	The functional importance of multiple actin isoforms. <i>BioEssays</i> , 1990, 12, 309-315.	2.5	229
2	Early Myocardial Function Affects Endocardial Cushion Development in Zebrafish. <i>PLoS Biology</i> , 2004, 2, e129.	5.6	191
3	Actin microheterogeneity in chick embryo fibroblasts.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977, 74, 120-123.	7.1	152
4	The structure of nonvertebrate actin: Implications for the ATP hydrolytic mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5760-5765.	7.1	148
5	Effects of profilin and profilactin on actin structure and function in living cells. <i>Journal of Cell Biology</i> , 1992, 117, 1023-1029.	5.2	123
6	Ion-dependent Polymerization Differences between Mammalian β^2 - and β^3 -Nonmuscle Actin Isoforms. <i>Journal of Biological Chemistry</i> , 2010, 285, 16087-16095.	3.4	105
7	Yeast actin with a mutation in the "hydrophobic plug" between subdomains 3 and 4 (L266D) displays a cold-sensitive polymerization defect.. <i>Journal of Cell Biology</i> , 1993, 123, 1185-1195.	5.2	104
8	Structure Determination and Characterization of <i>Saccharomyces cerevisiae</i> Profilin. <i>Biochemistry</i> , 1998, 37, 11171-11181.	2.5	85
9	Fluorescence Probing of Yeast Actin Subdomain 3/4 Hydrophobic Loop 262-274. <i>Journal of Biological Chemistry</i> , 1997, 272, 16829-16837.	3.4	75
10	Actin-destabilizing factors disrupt filaments by means of a time reversal of polymerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17664-17668.	7.1	72
11	Vinculin Nucleates Actin Polymerization and Modifies Actin Filament Structure. <i>Journal of Biological Chemistry</i> , 2009, 284, 30463-30473.	3.4	72
12	Mutational Analysis of the Role of the N Terminus of Actin in Actomyosin Interactions. Comparison with Other Mutant Actins and Implications for the Cross-Bridge Cycle. <i>Biochemistry</i> , 1996, 35, 16557-16565.	2.5	70
13	Cellular protein synthesis and inhibition of cell division are independent of butyrate-induced histone hyperacetylation. <i>Nature</i> , 1979, 280, 692-693.	27.8	67
14	Actin depolymerization under force is governed by lysine 113:glutamic acid 195-mediated catch-slip bonds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5022-5027.	7.1	66
15	Regulation of Phospholipase D Activity by Actin. <i>Journal of Biological Chemistry</i> , 2002, 277, 50683-50692.	3.4	64
16	In vivo and in vitro effects of two novel gamma-actin (ACTG1) mutations that cause DFNA20/26 hearing impairment. <i>Human Molecular Genetics</i> , 2009, 18, 3075-3089.	2.9	64
17	Cross-linking constraints on F-actin structure 1 Edited by M. F. Moody. <i>Journal of Molecular Biology</i> , 2000, 299, 421-429.	4.2	60
18	Modulation of yeast F-actin structure by a mutation in the nucleotide-binding cleft. <i>Journal of Molecular Biology</i> , 1997, 271, 235-243.	4.2	47

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19	Beryllium Fluoride and Phalloidin Restore Polymerizability of a Mutant Yeast Actin (V266G,L267G) with Severely Decreased Hydrophobicity in a Subdomain 3/4 Loop. <i>Journal of Biological Chemistry</i> , 1997, 272, 1237-1247.	3.4	45
20	His73, Often Methylated, Is an Important Structural Determinant for Actin. <i>Journal of Biological Chemistry</i> , 1999, 274, 37443-37449.	3.4	44
21	Engaging basic scientists in translational research: identifying opportunities, overcoming obstacles. <i>Journal of Translational Medicine</i> , 2012, 10, 72.	4.4	43
22	A Mutation in an ATP-binding Loop of <i>Saccharomyces cerevisiae</i> Actin (S14A) Causes a Temperature-sensitive Phenotype in Vivo and in Vitro. <i>Journal of Biological Chemistry</i> , 1995, 270, 11406-11414.	3.4	42
23	Effects of Human Deafness β -Actin Mutations (DFNA20/26) on Actin Function. <i>Journal of Biological Chemistry</i> , 2006, 281, 20129-20139.	3.4	42
24	A Highly Conserved 3-Methylhistidine Modification Is Absent in Yeast Actin. <i>Archives of Biochemistry and Biophysics</i> , 1999, 370, 105-111.	3.0	40
25	Acceleration of Yeast Actin Polymerization by Yeast Arp2/3 Complex Does Not Require an Arp2/3-activating Protein. <i>Journal of Biological Chemistry</i> , 2005, 280, 24168-24174.	3.4	38
26	Locking the Hydrophobic Loop 262-274 to G-Actin Surface by a Disulfide Bridge Prevents Filament Formation. <i>Biochemistry</i> , 2002, 41, 10787-10793.	2.5	37
27	Effect of the Substitution of Muscle Actin-specific Subdomain 1 and 2 Residues in Yeast Actin on Actin Function. <i>Journal of Biological Chemistry</i> , 2006, 281, 29916-29928.	3.4	37
28	The Effect of the S14A Mutation on the Conformation and Thermostability of <i>Saccharomyces cerevisiae</i> G-Actin and Its Interaction with Adenine Nucleotides. <i>Journal of Biological Chemistry</i> , 1995, 270, 11415-11423.	3.4	35
29	F-actin-like ATPase Activity in a Polymerization-defective Mutant Yeast Actin (V266G/L267G). <i>Journal of Biological Chemistry</i> , 2001, 276, 25598-25604.	3.4	35
30	The Effects of Severely Decreased Hydrophobicity in a Subdomain 3/4 Loop on the Dynamics and Stability of Yeast G-actin. <i>Journal of Biological Chemistry</i> , 1997, 272, 4412-4418.	3.4	34
31	Differential Actin-regulatory Activities of Tropomodulin1 and Tropomodulin3 with Diverse Tropomyosin and Actin Isoforms. <i>Journal of Biological Chemistry</i> , 2014, 289, 11616-11629.	3.4	34
32	Interaction of the Gonococcal Porin P.IB with G- and F-Actin. <i>Biochemistry</i> , 2000, 39, 8638-8647.	2.5	32
33	Cerebral microvascular smooth muscle in tissue culture. <i>In Vitro</i> , 1984, 20, 512-520.	1.2	31
34	Insights into the effects of disease-causing mutations in human actins. <i>Cytoskeleton</i> , 2014, 71, 211-229.	2.0	30
35	Tropomyosin-dependent Filament Formation by a Polymerization-defective Mutant Yeast Actin (V266G,L267G). <i>Journal of Biological Chemistry</i> , 2000, 275, 40594-40600.	3.4	29
36	A Nucleotide State-sensing Region on Actin. <i>Journal of Biological Chemistry</i> , 2010, 285, 25591-25601.	3.4	28

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37	Functional Analysis of a De Novo <i>ACTB</i> Mutation in a Patient with Atypical Baraitser-Winter Syndrome. <i>Human Mutation</i> , 2013, 34, 1242-1249.	2.5	28
38	A Mammalian Actin Substitution in Yeast Actin (H372R) Causes a Suppressible Mitochondria/Vacuole Phenotype. <i>Journal of Biological Chemistry</i> , 2005, 280, 36494-36501.	3.4	27
39	Thoracic Aortic Aneurysm (TAAD)-causing Mutation in Actin Affects Formin Regulation of Polymerization. <i>Journal of Biological Chemistry</i> , 2012, 287, 28398-28408.	3.4	25
40	Control of profilin and actin expression in muscle and nonmuscle cells. <i>Cytoskeleton</i> , 1993, 24, 179-188.	4.4	24
41	Conformational Dynamics of Loop 262~274 in G- and F-actin. <i>Biochemistry</i> , 2006, 45, 6541-6549.	2.5	24
42	Allele-specific Effects of Thoracic Aortic Aneurysm and Dissection $\hat{\pm}$ -Smooth Muscle Actin Mutations on Actin Function. <i>Journal of Biological Chemistry</i> , 2011, 286, 11356-11369.	3.4	24
43	Stimulatory effects of drugs for protein synthesis on muscle cell cultures in duchenne dystrophy. <i>Annals of Neurology</i> , 1979, 5, 107-110.	5.3	23
44	Differential behavior of gizzard isoactins. <i>Archives of Biochemistry and Biophysics</i> , 1981, 210, 598-608.	3.0	23
45	Biochemical Consequences of the Cardiofunk (R177H) Mutation in Yeast Actin. <i>Journal of Biological Chemistry</i> , 2003, 278, 48386-48394.	3.4	22
46	Control of the Ability of Profilin to Bind and Facilitate Nucleotide Exchange from G-actin. <i>Journal of Biological Chemistry</i> , 2008, 283, 9444-9453.	3.4	22
47	Role of the N-terminal negative charges of actin in force generation and cross-bridge kinetics in reconstituted bovine cardiac muscle fibres. <i>Journal of Physiology</i> , 2005, 564, 65-82.	2.9	21
48	Hydrophobic Loop Dynamics and Actin Filament Stability. <i>Biochemistry</i> , 2006, 45, 13576-13584.	2.5	21
49	Differential Regulation of Actin Polymerization and Structure by Yeast Formin Isoforms. <i>Journal of Biological Chemistry</i> , 2009, 284, 16776-16783.	3.4	21
50	Allele-specific Effects of Human Deafness $\hat{\pm}$ -Actin Mutations (DFNA20/26) on the Actin/Cofilin Interaction. <i>Journal of Biological Chemistry</i> , 2009, 284, 18260-18269.	3.4	21
51	The W-Loop of Alpha-Cardiac Actin Is Critical for Heart Function and Endocardial Cushion Morphogenesis in Zebrafish. <i>Molecular and Cellular Biology</i> , 2012, 32, 3527-3540.	2.3	20
52	Interaction in Vivo and in Vitro between the Yeast Fimbrin, SAC6P, and a Polymerization-defective Yeast Actin (V266G and L267G). <i>Journal of Biological Chemistry</i> , 1999, 274, 35873-35880.	3.4	19
53	Effect of Polymerization on the Subdomain 3/4 Loop of Yeast Actin. <i>Journal of Biological Chemistry</i> , 2002, 277, 22699-22709.	3.4	19
54	An Intermediate Form of ADP-F-actin. <i>Journal of Biological Chemistry</i> , 2005, 280, 1696-1703.	3.4	19

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55	Differential Interaction of Cardiac, Skeletal Muscle, and Yeast Tropomyosins with Fluorescent (Pyrene235) Yeast Actin. <i>Biophysical Journal</i> , 2006, 90, 1308-1318.	0.5	19
56	Two Deafness-causing (DFNA20/26) Actin Mutations Affect Arp2/3-dependent Actin Regulation. <i>Journal of Biological Chemistry</i> , 2012, 287, 27217-27226.	3.4	19
57	Regulation of Yeast Actin Behavior by Interaction of Charged Residues across the Interdomain Cleft. <i>Journal of Biological Chemistry</i> , 2002, 277, 22875-22882.	3.4	18
58	Using baculovirus/insect cell expressed recombinant actin to study the molecular pathogenesis of HCM caused by actin mutation A331P. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 74, 64-75.	1.9	17
59	Caldesmon, N-Terminal Yeast Actin Mutants, and the Regulation of Actomyosin Interactions. <i>Biochemistry</i> , 1994, 33, 3210-3216.	2.5	16
60	GTP-Yeast Actin. <i>Journal of Biological Chemistry</i> , 2002, 277, 41101-41109.	3.4	15
61	Actin Hydrophobic Loop 262-274 and Filament Nucleation and Elongation. <i>Journal of Molecular Biology</i> , 2008, 375, 793-801.	4.2	15
62	Effects of Binding Factors on Structural Elements in F-Actin. <i>Biochemistry</i> , 2009, 48, 370-378.	2.5	15
63	Actin Isoform-specific Conformational Differences Observed with Hydrogen/Deuterium Exchange and Mass Spectrometry. <i>Journal of Biological Chemistry</i> , 2009, 284, 25421-25430.	3.4	14
64	Regulation of actin catch-slip bonds with a RhoA-formin module. <i>Scientific Reports</i> , 2016, 6, 35058.	3.3	14
65	Structural Transition at Actin's N-Terminus in the Actomyosin Cross-Bridge Cycle. <i>Biochemistry</i> , 2000, 39, 1792-1799.	2.5	13
66	Host range restriction of vesicular stomatitis virus on duck embryo cells. <i>Virology</i> , 1978, 85, 612-616.	2.4	12
67	Two Deafness-Causing Actin Mutations (DFNA20/26) Have Allosteric Effects on the Actin Structure. <i>Biophysical Journal</i> , 2016, 111, 323-332.	0.5	11
68	[16] Actin amino-terminal acetylation and processing in a rabbit reticulocyte lysate. <i>Methods in Enzymology</i> , 1984, 106, 179-192.	1.0	10
69	Role of Intermonomer Ionic Bridges in the Stabilization of the Actin Filament. <i>Journal of Biological Chemistry</i> , 2008, 283, 34844-34854.	3.4	9
70	Functional Adaptation between Yeast Actin and Its Cognate Myosin Motors. <i>Journal of Biological Chemistry</i> , 2011, 286, 30384-30392.	3.4	9
71	Isolation of two different molecular weight polypeptides copurifying with rat liver tyrosine aminotransferase. <i>Archives of Biochemistry and Biophysics</i> , 1979, 194, 299-311.	3.0	8
72	Synthesis of mammalian profilin in <i>Escherichia coli</i> and its characterization. <i>Cytoskeleton</i> , 1989, 14, 230-236.	4.4	7

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73	Importance of a Lys113â€“Glu195 Intermonomer Ionic Bond in F-actin Stabilization and Regulation by Yeast Formins Bni1p and Bnr1p. <i>Journal of Biological Chemistry</i> , 2013, 288, 19140-19153.	3.4	7
74	Is the onset of actin histidine methylation under developmental control in the chick embryo. <i>Archives of Biochemistry and Biophysics</i> , 1983, 225, 731-739.	3.0	6
75	Nonuniform behavior of multiple isoactins in the same cell is a cell-dependent phenomenon. <i>Cytoskeleton</i> , 1989, 14, 263-270.	4.4	6
76	Thin Filament Regulation and Ionic Interactions between the N-terminal Region in Actin and Troponin. <i>Biophysical Journal</i> , 2002, 83, 2726-2732.	0.5	6
77	Mutant Profilin Suppresses Mutant Actin-dependent Mitochondrial Phenotype in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 41745-41757.	3.4	6
78	NATure of actin amino-terminal acetylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4314-4316.	7.1	6
79	Chapter 13 Amino-Terminal Processing of <i>Dictyostelium discoideum</i> Actin. <i>Methods in Cell Biology</i> , 1987, 28, 231-243.	1.1	5
80	Familial Visceral Myopathies: From Symptom-Based Syndromes to Actin-Related Diseases. <i>Gastroenterology</i> , 2012, 143, 1420-1423.	1.3	5
81	Actin structure-function relationships in vitro using oligodeoxynucleotide-directed site-specific mutagenesis. <i>Cytoskeleton</i> , 1989, 14, 35-39.	4.4	4
82	Teaching Biochemistry and Genetics to Students of Medicine, Pharmacy, and Dentistry. <i>Medical Science Educator</i> , 2017, 27, 855-859.	1.5	4
83	Lights, camera, actin. <i>IUBMB Life</i> , 2005, 57, 683-687.	3.4	3
84	Muscle ribosome detachment factor. <i>Acta Neurologica Scandinavica</i> , 1981, 64, 108-121.	2.1	3
85	A Potential Yeast Actin Allosteric Conduit Dependent on Hydrophobic Core Residues Val-76 and Trp-79. <i>Journal of Biological Chemistry</i> , 2010, 285, 21185-21194.	3.4	3
86	<i>Neisseria gonorrhoeae</i> porin, P.IB, causes release of ATP from yeast actin. <i>Journal of Muscle Research and Cell Motility</i> , 2004, 25, 343-350.	2.0	2
87	Chapter 9.11 Contractile and Cytoskeletal Proteins. <i>Journal of Chromatography Library</i> , 1983, , 172-176.	0.1	0
88	Mutant profilin suppresses mutant actin-dependent mitochondrial phenotype in <i>Saccharomyces cerevisiae</i> .. <i>Journal of Biological Chemistry</i> , 2012, 287, 13048.	3.4	0
89	Mutant vascular actin is a TAAD misbehaving. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9500-9501.	7.1	0
90	Teaching Biochemistry to Students of Dentistry, Medicine, and Pharmacy: 7th International Conference of the Association of Biochemistry Educators (ABE) Tucson, AZ, USA, May 5â€“9, 2019. <i>Medical Science Educator</i> , 2020, 30, 585-589.	1.5	0