

Brad J Nolen

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

2,577
citations

304743

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501196

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docs citations

33
times ranked

3750
citing authors

#	ARTICLE	IF	CITATIONS
1	Unconcerted conformational changes in Arp2/3 complex integrate multiple activating signals to assemble functional actin networks. <i>Current Biology</i> , 2022, 32, 975-987.e6.	3.9	16
2	Analysis of functional surfaces on the actin nucleation promoting factor Dip1 required for Arp2/3 complex activation and endocytic actin network assembly.. <i>Journal of Biological Chemistry</i> , 2022, , 102019.	3.4	0
3	Structure of Arp2/3 complex at a branched actin filament junction resolved by single-particle cryo-electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	33
4	Cryo-EM reveals the transition of Arp2/3 complex from inactive to nucleation-competent state. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 1009-1016.	8.2	48
5	Synergy between Wsp1 and Dip1 may initiate assembly of endocytic actin networks. <i>ELife</i> , 2020, 9, .	6.0	6
6	Single-Turnover Activation of Arp2/3 Complex by Dip1 May Balance Nucleation of Linear versus Branched Actin Filaments. <i>Current Biology</i> , 2019, 29, 3331-3338.e7.	3.9	16
7	Identification of Wiskott-Aldrich syndrome protein (WASP) binding sites on the branched actin filament nucleator Arp2/3 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1409-E1418.	7.1	30
8	Dip1 Co-opts Features of Branching Nucleation to Create Linear Actin Filaments that Activate WASP-Bound Arp2/3 Complex. <i>Current Biology</i> , 2018, 28, 3886-3891.e4.	3.9	16
9	Structure of the nucleation-promoting factor <sc>SPIN</sc> 90 bound to the actin filament nucleator Arp2/3 complex. <i>EMBO Journal</i> , 2018, 37, .	7.8	29
10	Identification of an ATP-controlled allosteric switch that controls actin filament nucleation by Arp2/3 complex. <i>Nature Communications</i> , 2016, 7, 12226.	12.8	32
11	Role and structural mechanism of WASP-triggered conformational changes in branched actin filament nucleation by Arp2/3 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3834-43.	7.1	48
12	Interactions with Actin Monomers, Actin Filaments, and Arp2/3 Complex Define the Roles of WASP Family Proteins and Cortactin in Coordinately Regulating Branched Actin Networks. <i>Journal of Biological Chemistry</i> , 2014, 289, 28856-28869.	3.4	50
13	Structural basis for regulation of Arp2/3 complex by GMF. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1062-1068.	8.2	70
14	Small Molecules CK-666 and CK-869 Inhibit Actin-Related Protein 2/3 Complex by Blocking an Activating Conformational Change. <i>Chemistry and Biology</i> , 2013, 20, 701-712.	6.0	289
15	Dip1 Defines a Class of Arp2/3 Complex Activators that Function without Preformed Actin Filaments. <i>Current Biology</i> , 2013, 23, 1990-1998.	3.9	68
16	Insertions within the Actin Core of Actin-related Protein 3 (Arp3) Modulate Branching Nucleation by Arp2/3 Complex. <i>Journal of Biological Chemistry</i> , 2013, 288, 487-497.	3.4	20
17	Mechanism of synergistic activation of Arp2/3 complex by cortactin and N-WASP. <i>ELife</i> , 2013, 2, e00884.	6.0	102
18	Structural Characterization and Computer-Aided Optimization of a Small-Molecule Inhibitor of the Arp2/3 Complex, a Key Regulator of the Actin Cytoskeleton. <i>ChemMedChem</i> , 2012, 7, 1286-1294.	3.2	42

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19	Inside Cover: Structural Characterization and Computer-Aided Optimization of a Small-Molecule Inhibitor of the Arp2/3 Complex, a Key Regulator of the Actin Cytoskeleton (ChemMedChem 7/2012). ChemMedChem, 2012, 7, 1130-1130.	3.2	0
20	Mechanism of a Concentration-dependent Switch between Activation and Inhibition of Arp2/3 Complex by Coronin. Journal of Biological Chemistry, 2011, 286, 17039-17046.	3.4	61
21	Nucleotide- and Activator-Dependent Structural and Dynamic Changes of Arp2/3 Complex Monitored by Hydrogen/Deuterium Exchange and Mass Spectrometry. Journal of Molecular Biology, 2009, 390, 414-427.	4.2	15
22	Nucleotide-Mediated Conformational Changes of Monomeric Actin and Arp3 Studied by Molecular Dynamics Simulations. Journal of Molecular Biology, 2008, 376, 166-183.	4.2	49
23	Structure and Biochemical Properties of Fission Yeast Arp2/3 Complex Lacking the Arp2 Subunit. Journal of Biological Chemistry, 2008, 283, 26490-26498.	3.4	41
24	Insights into the Influence of Nucleotides on Actin Family Proteins from Seven Structures of Arp2/3 Complex. Molecular Cell, 2007, 26, 449-457.	9.7	70
25	Interplay between SRPK and Clk/Sty Kinases in Phosphorylation of the Splicing Factor ASF/SF2 Is Regulated by a Docking Motif in ASF/SF2. Molecular Cell, 2005, 20, 77-89.	9.7	179
26	Crystal structures of actin-related protein 2/3 complex with bound ATP or ADP. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15627-15632.	7.1	81
27	Regulation of Protein Kinases. Molecular Cell, 2004, 15, 661-675.	9.7	972
28	Nucleotide-Induced Conformational Changes in the <i>Saccharomyces cerevisiae</i> SR Protein Kinase, Sky1p, Revealed by X-ray Crystallography. Biochemistry, 2003, 42, 9575-9585.	2.5	26
29	Processive phosphorylation of alternative splicing factor/splicing factor 2. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12601-12606.	7.1	97
30	The structure of Sky1p reveals a novel mechanism for constitutive activity. Nature Structural Biology, 2001, 8, 176-183.	9.7	70