

Niels Galjart

List of Publications by Year in descending order

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96
papers

11,217
citations

34100
52
h-index

40976
93
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100
all docs

100
docs citations

100
times ranked

12486
citing authors

#	ARTICLE	IF	CITATIONS
1	CLASP2 safeguards hematopoietic stem cell properties during mouse and fish development. Cell Reports, 2022, 39, 110957.	6.4	2
2	Novel <i>TUBA4A</i> Variant Associated With Familial Frontotemporal Dementia. Neurology: Genetics, 2021, 7, e596.	1.9	18
3	Targeting the Microtubule EB1-CLASP2 Complex Modulates Na ⁺ 1.5 at Intercalated Discs. Circulation Research, 2021, 129, 349-365.	4.5	23
4	CTCF chromatin residence time controls three-dimensional genome organization, gene expression and DNA methylation in pluripotent cells. Nature Cell Biology, 2021, 23, 881-893.	10.3	30
5	The +TIP Navigator-1 is an actin-microtubule crosslinker that regulates axonal growth cone motility. Journal of Cell Biology, 2020, 219, .	5.2	25
6	Purification of Mammalian Tubulins and Tubulin-Associated Proteins Using a P2A-Based Expression System. Methods in Molecular Biology, 2020, 2101, 1-17.	0.9	2
7	Facilitating Data Association In Particle Tracking Using Autoencoding And Score Matching. , 2019, , .		5
8	Distinct Functions for Mammalian CLASP1 and -2 During Neurite and Axon Elongation. Frontiers in Cellular Neuroscience, 2019, 13, 5.	3.7	15
9	The transcriptional regulator CCCTC-binding factor limits oxidative stress in endothelial cells. Journal of Biological Chemistry, 2018, 293, 8449-8461.	3.4	18
10	Remote Memory and Cortical Synaptic Plasticity Require Neuronal CCCTC-Binding Factor (CTCF). Journal of Neuroscience, 2018, 38, 5042-5052.	3.6	39
11	Accurate estimation of intracellular dynamics and underlying spatial structures using hierarchical trajectory smoothing. , 2018, , .		1
12	TAPPING into the treasures of tubulin using novel protein production methods. Essays in Biochemistry, 2018, 62, 781-792.	4.7	4
13	Choice of binding sites for CTCFL compared to CTCF is driven by chromatin and by sequence preference. Nucleic Acids Research, 2018, 46, 7097-7107.	14.5	20
14	Inducible podocyte-specific deletion of CTCF drives progressive kidney disease and bone abnormalities. JCI Insight, 2018, 3, .	5.0	14
15	Mitotic progression, arrest, exit or death relies on centromere structural integrity, rather than de novo transcription. ELife, 2018, 7, .	6.0	18
16	Ninein is essential for apico-basal microtubule formation and CLIP-170 facilitates its redeployment to non-centrosomal microtubule organizing centres. Open Biology, 2017, 7, 160274.	3.6	45
17	Cohesin is positioned in mammalian genomes by transcription, CTCF and Wapl. Nature, 2017, 544, 503-507.	27.8	385
18	Purification of Biotinylated Proteins Using Single Walled Carbon Nanotube-Streptavidin Complexes. Journal of Nanoscience and Nanotechnology, 2017, 17, 926-931.	0.9	0

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19	Gaussian processes for trajectory analysis in microtubule tracking applications. , 2017, , .		3
20	CTCF orchestrates the germinal centre transcriptional program and prevents premature plasma cell differentiation. Nature Communications, 2017, 8, 16067.	12.8	22
21	CTCF counter-regulates cardiomyocyte development and maturation programs in the embryonic heart. PLoS Genetics, 2017, 13, e1006985.	3.5	54
22	<i>ACTG2</i> variants impair actin polymerization in sporadic Megacystis Microcolon Intestinal Hypoperistalsis Syndrome. Human Molecular Genetics, 2016, 25, 571-583.	2.9	56
23	CTCF contributes in a critical way to spermatogenesis and male fertility. Scientific Reports, 2016, 6, 28355.	3.3	28
24	Isolation of Functional Tubulin Dimers and of Tubulin-Associated Proteins from Mammalian Cells. Current Biology, 2016, 26, 1728-1736.	3.9	66
25	CLASP2-dependent microtubule capture at the neuromuscular junction membrane requires LL5 β and actin for focal delivery of acetylcholine receptor vesicles. Molecular Biology of the Cell, 2015, 26, 938-951.	2.1	31
26	A defect in the CLIP1 gene (CLIP-170) can cause autosomal recessive intellectual disability. European Journal of Human Genetics, 2015, 23, 331-336.	2.8	22
27	The DNA-binding factor Ctfc critically controls gene expression in macrophages. Cellular and Molecular Immunology, 2014, 11, 58-70.	10.5	34
28	Severe presentation of <i>WDR62</i> mutation: Is there a role for modifying genetic factors?. American Journal of Medical Genetics, Part A, 2014, 164, 2161-2171.	1.2	30
29	Dual Effect of CTCF Loss on Neuroprogenitor Differentiation and Survival. Journal of Neuroscience, 2014, 34, 2860-2870.	3.6	71
30	CTCF induces histone variant incorporation, erases the H3K27me3 histone mark and opens chromatin. Nucleic Acids Research, 2014, 42, 11941-11951.	14.5	41
31	Acetylcholine Receptor (AChR) Clustering Is Regulated Both by Glycogen Synthase Kinase 3 β (GSK3 β)-dependent Phosphorylation and the Level of CLIP-associated Protein 2 (CLASP2) Mediating the Capture of Microtubule Plus-ends. Journal of Biological Chemistry, 2014, 289, 30857-30867.	3.4	19
32	Dynamic Microtubules Catalyze Formation of Navigator-TRIO Complexes to Regulate Neurite Extension. Current Biology, 2014, 24, 1778-1785.	3.9	73
33	Going Solo. Methods in Cell Biology, 2013, 115, 109-124.	1.1	5
34	MAP1B regulates microtubule dynamics by sequestering EB1/3 in the cytosol of developing neuronal cells. EMBO Journal, 2013, 32, 1293-1306.	7.8	80
35	Protein 4.1R binds to CLASP2 and regulates dynamics, organization and attachment of microtubules to the cell cortex. Journal of Cell Science, 2013, 126, 4589-601.	2.0	31
36	Host microtubule plus-end binding protein CLASP1 influences sequential steps in the Trypanosoma cruzi infection process. Cellular Microbiology, 2013, 15, 571-584.	2.1	12

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37	Agrin regulates CLASP2-mediated capture of microtubules at the neuromuscular junction synaptic membrane. <i>Journal of Cell Biology</i> , 2012, 198, 421-437.	5.2	57
38	<i>Tcra</i> gene recombination is supported by a <i>Tcra</i> enhancer- and CTCF-dependent chromatin hub. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3493-502.	7.1	79
39	CTCF Is Required for Neural Development and Stochastic Expression of Clustered Pcdh Genes in Neurons. <i>Cell Reports</i> , 2012, 2, 345-357.	6.4	154
40	The Microtubule Plus-End Tracking Protein CLASP2 Is Required for Hematopoiesis and Hematopoietic Stem Cell Maintenance. <i>Cell Reports</i> , 2012, 2, 781-788.	6.4	35
41	The male germ cell gene regulator CTCFL is functionally different from CTCF and binds CTCF-like consensus sites in a nucleosome composition-dependent manner. <i>Epigenetics and Chromatin</i> , 2012, 5, 8.	3.9	80
42	The DNA-Binding Protein CTCF Limits Proximal V β Recombination and Restricts β Enhancer Interactions to the Immunoglobulin β Light Chain Locus. <i>Immunity</i> , 2011, 35, 501-513.	14.3	114
43	History-Dependent Catastrophes Regulate Axonal Microtubule Behavior. <i>Current Biology</i> , 2010, 20, 1023-1028.	3.9	64
44	Plus-End-Tracking Proteins and Their Interactions at Microtubule Ends. <i>Current Biology</i> , 2010, 20, R528-R537.	3.9	194
45	CTCF regulates the local epigenetic state of ribosomal DNA repeats. <i>Epigenetics and Chromatin</i> , 2010, 3, 19.	3.9	80
46	In vivo imaging of haematopoietic cells emerging from the mouse aortic endothelium. <i>Nature</i> , 2010, 464, 116-120.	27.8	792
47	Phosphorylation Controls Autoinhibition of Cytoplasmic Linker Protein-170. <i>Molecular Biology of the Cell</i> , 2010, 21, 2661-2673.	2.1	40
48	Functional Analysis of CTCF During Mammalian Limb Development. <i>Developmental Cell</i> , 2010, 19, 819-830.	7.0	136
49	Nicotinamide adenine dinucleotide (NAD) ⁺ regulated DNA methylation alters CCCTC-binding factor (CTCF)/cohesin binding and transcription at the BDNF locus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21836-21841.	7.1	58
50	Critical Role for the Transcription Regulator CCCTC-Binding Factor in the Control of Th2 Cytokine Expression. <i>Journal of Immunology</i> , 2009, 182, 999-1010.	0.8	56
51	Phosphorylation of CLASP2 by GSK-3 β regulates its interaction with IQGAP1, EB1 and microtubules. <i>Journal of Cell Science</i> , 2009, 122, 2969-2979.	2.0	132
52	Motor-Independent Targeting of CLASPs to Kinetochores by CENP-E Promotes Microtubule Turnover and Poleward Flux. <i>Current Biology</i> , 2009, 19, 1566-1572.	3.9	120
53	Mammalian Navigators are microtubule plus-end tracking proteins that can reorganize the cytoskeleton to induce neurite-like extensions. <i>Cytoskeleton</i> , 2009, 66, 824-838.	4.4	49
54	CTCF regulates cell cycle progression of β T cells in the thymus. <i>EMBO Journal</i> , 2008, 27, 2839-2850.	7.8	155

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55	Dynein, Lis1 and CLIP-170 counteract Eg5-dependent centrosome separation during bipolar spindle assembly. <i>EMBO Journal</i> , 2008, 27, 3235-3245.	7.8	144
56	Particle Filtering for Multiple Object Tracking in Dynamic Fluorescence Microscopy Images: Application to Microtubule Growth Analysis. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 789-804.	8.9	157
57	Cryo electron tomography of vitrified fibroblasts: Microtubule plus ends in situ. <i>Journal of Structural Biology</i> , 2008, 161, 459-468.	2.8	58
58	Plasma membrane recruitment of dephosphorylated β -catenin upon activation of the Wnt pathway. <i>Journal of Cell Science</i> , 2008, 121, 1793-1802.	2.0	75
59	Microtubule Plus-End Conformations and Dynamics in the Periphery of Interphase Mouse Fibroblasts. <i>Molecular Biology of the Cell</i> , 2008, 19, 3138-3146.	2.1	28
60	Dynamic behavior of GFP-CLIP-170 reveals fast protein turnover on microtubule plus ends. <i>Journal of Cell Biology</i> , 2008, 180, 729-737.	5.2	107
61	Visualization of microtubule growth in living platelets reveals a dynamic marginal band with multiple microtubules. <i>Blood</i> , 2008, 111, 4605-4616.	1.4	130
62	Asymmetric CLASP-Dependent Nucleation of Noncentrosomal Microtubules at the trans-Golgi Network. <i>Developmental Cell</i> , 2007, 12, 917-930.	7.0	481
63	Microtubule-binding proteins CLASP1 and CLASP2 interact with actin filaments. <i>Cytoskeleton</i> , 2007, 64, 519-530.	4.4	93
64	Rao-Blackwellized Marginal Particle Filtering for Multiple Object Tracking in Molecular Bioimaging. <i>Lecture Notes in Computer Science</i> , 2007, 20, 110-121.	1.3	15
65	CTCF mediates long-range chromatin looping and local histone modification in the beta-globin locus. <i>Genes and Development</i> , 2006, 20, 2349-2354.	5.9	643
66	CLASPs Attach Microtubule Plus Ends to the Cell Cortex through a Complex with LL5 β . <i>Developmental Cell</i> , 2006, 11, 21-32.	7.0	288
67	CLIP-170 facilitates the formation of kinetochore-microtubule attachments. <i>EMBO Journal</i> , 2006, 25, 45-57.	7.8	72
68	Role of CLASP2 in Microtubule Stabilization and the Regulation of Persistent Motility. <i>Current Biology</i> , 2006, 16, 2259-2264.	3.9	159
69	Differential effects of matrix and growth factors on endothelial and fibroblast motility: Application of a modified cell migration assay. <i>Journal of Cellular Biochemistry</i> , 2006, 99, 1536-1552.	2.6	55
70	Tubulin tyrosination is a major factor affecting the recruitment of CAP-Gly proteins at microtubule plus ends. <i>Journal of Cell Biology</i> , 2006, 174, 839-849.	5.2	271
71	Mammalian CLASP1 and CLASP2 Cooperate to Ensure Mitotic Fidelity by Regulating Spindle and Kinetochore Function. <i>Molecular Biology of the Cell</i> , 2006, 17, 4526-4542.	2.1	116
72	Differential Contributions of Mammalian Rad54 Paralogs to Recombination, DNA Damage Repair, and Meiosis. <i>Molecular and Cellular Biology</i> , 2006, 26, 976-989.	2.3	134

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73	Differential roles of microtubule assembly and sliding in proplatelet formation by megakaryocytes. Blood, 2005, 106, 4076-4085.	1.4	184
74	CLIPs and CLASPs and cellular dynamics. Nature Reviews Molecular Cell Biology, 2005, 6, 487-498.	37.0	188
75	CTCF binding and higher order chromatin structure of the H19 locus are maintained in mitotic chromatin. EMBO Journal, 2005, 24, 3291-3300.	7.8	123
76	The microtubule plus-end-tracking protein CLIP-170 associates with the spermatid manchette and is essential for spermatogenesis. Genes and Development, 2005, 19, 2501-2515.	5.9	101
77	EB1 and EB3 Control CLIP Dissociation from the Ends of Growing Microtubules. Molecular Biology of the Cell, 2005, 16, 5334-5345.	2.1	182
78	CLASP1 and CLASP2 bind to EB1 and regulate microtubule plus-end dynamics at the cell cortex. Journal of Cell Biology, 2005, 168, 141-153.	5.2	409
79	The Marginal Microtubule Coil in the Resting Blood Platelet Is a Dynamic Bipolar Array.. Blood, 2005, 106, 1653-1653.	1.4	1
80	Conformational changes in CLIP-170 regulate its binding to microtubules and dynactin localization. Journal of Cell Biology, 2004, 166, 1003-1014.	5.2	159
81	LIMK1 and CLIP-115: linking cytoskeletal defects to Williams syndrome. BioEssays, 2004, 26, 141-150.	2.5	83
82	Gain and Phase Control of Compensatory Eye Movements by the Flocculus of the Vestibulocerebellum. Springer Handbook of Auditory Research, 2004, , 375-422.	0.7	7
83	A plus-end raft to control microtubule dynamics and function. Current Opinion in Cell Biology, 2003, 15, 48-53.	5.4	91
84	Bicaudal D induces selective dynein-mediated microtubule minus end-directed transport. EMBO Journal, 2003, 22, 6004-6015.	7.8	196
85	Visualization of Microtubule Growth in Cultured Neurons via the Use of EB3-GFP (End-Binding Protein) Tj ETQq1 1 0,784314 rgBT /Ov	3.6	624
86	Cytoplasmic linker proteins promote microtubule rescue in vivo. Journal of Cell Biology, 2002, 159, 589-599.	5.2	224
87	LIS1, CLIP-170's Key to the Dynein/Dynactin Pathway. Molecular and Cellular Biology, 2002, 22, 3089-3102.	2.3	222
88	Bicaudal-D regulates COPI-independent Golgiâ€“ER transport by recruiting the dyneinâ€“dynactin motor complex. Nature Cell Biology, 2002, 4, 986-992.	10.3	357
89	Targeted mutation of Cln2 in the Williams syndrome critical region links CLIP-115 haploinsufficiency to neurodevelopmental abnormalities in mice. Nature Genetics, 2002, 32, 116-127.	21.4	163
90	CLASPs Are CLIP-115 and -170 Associating Proteins Involved in the Regional Regulation of Microtubule Dynamics in Motile Fibroblasts. Cell, 2001, 104, 923-935.	28.9	462

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91	Identification of a Novel Peroxisome Proliferator Responsive cDNA Isolated from Rat Hepatocytes as the Zinc-Finger Protein ZFP-37. Toxicology and Applied Pharmacology, 1998, 152, 107-118.	2.8	12
92	Microcircuitry and function of the inferior olive. Trends in Neurosciences, 1998, 21, 391-400.	8.6	404
93	The MurineCYLN2Gene: Genomic Organization, Chromosome Localization, and Comparison to the Human Gene That Is Located within the 7q11.23 Williams Syndrome Critical Region. Genomics, 1998, 53, 348-358.	2.9	52
94	The Centromeric/Nucleolar Chromatin Protein ZFP-37 May Function to Specify Neuronal Nuclear Domains. Journal of Biological Chemistry, 1998, 273, 9099-9109.	3.4	38
95	CLIP-115, a Novel Brain-Specific Cytoplasmic Linker Protein, Mediates the Localization of Dendritic Lamellar Bodies. Neuron, 1997, 19, 1187-1199.	8.1	97
96	Gain adaptation and phase dynamics of compensatory eye movements in mice. Genes and Function, 1997, 1, 175-190.	2.8	64