

Laurence Pelletier

List of Publications by Year in descending order

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75
papers

10,084
citations

66343

42
h-index

82547

72
g-index

86
all docs

86
docs citations

86
times ranked

12939
citing authors

#	ARTICLE	IF	CITATIONS
1	Orchestration of the DNA-Damage Response by the RNF8 Ubiquitin Ligase. <i>Science</i> , 2007, 318, 1637-1640.	12.6	800
2	The RIDDLE Syndrome Protein Mediates a Ubiquitin-Dependent Signaling Cascade at Sites of DNA Damage. <i>Cell</i> , 2009, 136, 420-434.	28.9	673
3	BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. <i>Nature Methods</i> , 2008, 5, 409-415.	19.0	568
4	Systematic Analysis of Human Protein Complexes Identifies Chromosome Segregation Proteins. <i>Science</i> , 2010, 328, 593-599.	12.6	465
5	A Dynamic Protein Interaction Landscape of the Human Centrosome-Cilium Interface. <i>Cell</i> , 2015, 163, 1484-1499.	28.9	446
6	Protein phosphatase 2A protects centromeric sister chromatid cohesion during meiosis I. <i>Nature</i> , 2006, 441, 53-61.	27.8	419
7	An endoribonuclease-prepared siRNA screen in human cells identifies genes essential for cell division. <i>Nature</i> , 2004, 432, 1036-1040.	27.8	369
8	Centriole assembly in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2006, 444, 619-623.	27.8	358
9	Subdiffraction imaging of centrosomes reveals higher-order organizational features of pericentriolar material. <i>Nature Cell Biology</i> , 2012, 14, 1148-1158.	10.3	337
10	Mitotic spindle assembly in animal cells: a fine balancing act. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 187-201.	37.0	315
11	Centriole Assembly Requires Both Centriolar and Pericentriolar Material Proteins. <i>Developmental Cell</i> , 2004, 7, 815-829.	7.0	273
12	Genome-scale RNAi profiling of cell division in human tissue culture cells. <i>Nature Cell Biology</i> , 2007, 9, 1401-1412.	10.3	270
13	A proximity-dependent biotinylation map of a human cell. <i>Nature</i> , 2021, 595, 120-124.	27.8	263
14	A Strategy for Modulation of Enzymes in the Ubiquitin System. <i>Science</i> , 2013, 339, 590-595.	12.6	257
15	Aurora A phosphorylation of TACC3/maskin is required for centrosome-dependent microtubule assembly in mitosis. <i>Journal of Cell Biology</i> , 2005, 170, 1047-1055.	5.2	248
16	HAUS, the 8-Subunit Human Augmin Complex, Regulates Centrosome and Spindle Integrity. <i>Current Biology</i> , 2009, 19, 816-826.	3.9	231
17	The <i>Caenorhabditis elegans</i> Centrosomal Protein SPD-2 Is Required for both Pericentriolar Material Recruitment and Centriole Duplication. <i>Current Biology</i> , 2004, 14, 863-873.	3.9	225
18	The AP-1A and AP-1B clathrin adaptor complexes define biochemically and functionally distinct membrane domains. <i>Journal of Cell Biology</i> , 2003, 163, 351-362.	5.2	188

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19	Golgi biogenesis in <i>Toxoplasma gondii</i> . <i>Nature</i> , 2002, 418, 548-552.	27.8	184
20	Golgin Tethers Define Subpopulations of COPI Vesicles. <i>Science</i> , 2005, 307, 1095-1098.	12.6	178
21	The Mammalian SPD-2 Ortholog Cep192 Regulates Centrosome Biogenesis. <i>Current Biology</i> , 2008, 18, 136-141.	3.9	169
22	ProHits-viz: a suite of web tools for visualizing interaction proteomics data. <i>Nature Methods</i> , 2017, 14, 645-646.	19.0	160
23	CEP120 and SPICE1 Cooperate with CPAP in Centriole Elongation. <i>Current Biology</i> , 2013, 23, 1360-1366.	3.9	153
24	The Ciliary Transition Zone: Finding the Pieces and Assembling the Gate. <i>Molecules and Cells</i> , 2017, 40, 243-253.	2.6	145
25	Structure-Function Analysis of Core STRIPAK Proteins. <i>Journal of Biological Chemistry</i> , 2011, 286, 25065-25075.	3.4	136
26	Interactome Rewiring Following Pharmacological Targeting of BET Bromodomains. <i>Molecular Cell</i> , 2019, 73, 621-638.e17.	9.7	135
27	Amorphous no more: subdiffraction view of the pericentriolar material architecture. <i>Trends in Cell Biology</i> , 2014, 24, 188-197.	7.9	134
28	Transferrin receptor recycling in the absence of perinuclear recycling endosomes. <i>Journal of Cell Biology</i> , 2002, 156, 797-804.	5.2	129
29	Global Interactomics Uncovers Extensive Organellar Targeting by Zika Virus. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2242-2255.	3.8	112
30	Pooled matrix protein interaction screens using Barcode Fusion Genetics. <i>Molecular Systems Biology</i> , 2016, 12, 863.	7.2	102
31	DCDC2 Mutations Cause a Renal-Hepatic Ciliopathy by Disrupting Wnt Signaling. <i>American Journal of Human Genetics</i> , 2015, 96, 81-92.	6.2	98
32	A negative genetic interaction map in isogenic cancer cell lines reveals cancer cell vulnerabilities. <i>Molecular Systems Biology</i> , 2013, 9, 696.	7.2	90
33	RNA interference rescue by bacterial artificial chromosome transgenesis in mammalian tissue culture cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2396-2401.	7.1	88
34	Saturation variant interpretation using CRISPR prime editing. <i>Nature Biotechnology</i> , 2022, 40, 885-895.	17.5	86
35	DNA damage signalling targets the kinetochore to promote chromatin mobility. <i>Nature Cell Biology</i> , 2016, 18, 281-290.	10.3	82
36	Phenotypic and Interaction Profiling of the Human Phosphatases Identifies Diverse Mitotic Regulators. <i>Cell Reports</i> , 2016, 17, 2488-2501.	6.4	81

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37	Spatial and proteomic profiling reveals centrosome-independent features of centriolar satellites. <i>EMBO Journal</i> , 2019, 38, e101109.	7.8	73
38	Centriolar satellite biogenesis and function in vertebrate cells. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	73
39	Centrosome asymmetry and inheritance during animal development. <i>Current Opinion in Cell Biology</i> , 2012, 24, 541-546.	5.4	68
40	The effect of Golgi depletion on exocytic transport. <i>Nature Cell Biology</i> , 2000, 2, 840-846.	10.3	66
41	Interaction Proteomics Identify NEURL4 and the HECT E3 Ligase HERC2 as Novel Modulators of Centrosome Architecture. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.014233.	3.8	57
42	PTEN regulates cilia through Dishevelled. <i>Nature Communications</i> , 2015, 6, 8388.	12.8	55
43	CDKL Family Kinases Have Evolved Distinct Structural Features and Ciliary Function. <i>Cell Reports</i> , 2018, 22, 885-894.	6.4	48
44	CEP19 cooperates with FOP and CEP350 to drive early steps in the ciliogenesis programme. <i>Open Biology</i> , 2017, 7, 170114.	3.6	46
45	Salmonella exploits Arl8B-directed kinesin activity to promote endosome tubulation and cell-to-cell transfer. <i>Cellular Microbiology</i> , 2011, 13, 1812-1823.	2.1	43
46	Nek5 promotes centrosome integrity in interphase and loss of centrosome cohesion in mitosis. <i>Journal of Cell Biology</i> , 2015, 209, 339-348.	5.2	40
47	Novel NEDD1 phosphorylation sites regulate γ -tubulin binding and mitotic spindle assembly. <i>Journal of Cell Science</i> , 2012, 125, 3745-51.	2.0	36
48	Gravin Is a Transitory Effector of Polo-like Kinase 1 during Cell Division. <i>Molecular Cell</i> , 2012, 48, 547-559.	9.7	36
49	Cep192 Controls the Balance of Centrosome and Non-Centrosomal Microtubules during Interphase. <i>PLoS ONE</i> , 2014, 9, e101001.	2.5	36
50	The Deubiquitinase USP37 Regulates Chromosome Cohesion and Mitotic Progression. <i>Current Biology</i> , 2015, 25, 2290-2299.	3.9	34
51	A multiplexed, next generation sequencing platform for high-throughput detection of SARS-CoV-2. <i>Nature Communications</i> , 2021, 12, 1405.	12.8	33
52	Direct binding of CEP85 to STIL ensures robust PLK4 activation and efficient centriole assembly. <i>Nature Communications</i> , 2018, 9, 1731.	12.8	32
53	CEP192 interacts physically and functionally with the K63-deubiquitinase CYLD to promote mitotic spindle assembly. <i>Cell Cycle</i> , 2012, 11, 3555-3558.	2.6	28
54	LUZP1 and the tumor suppressor EPLIN modulate actin stability to restrict primary cilia formation. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	25

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55	Formin-mediated actin polymerization promotes <i>Salmonella</i> invasion. <i>Cellular Microbiology</i> , 2013, 15, 2051-2063.	2.1	22
56	Atypical function of a centrosomal module in WNT signalling drives contextual cancer cell motility. <i>Nature Communications</i> , 2019, 10, 2356.	12.8	22
57	Comparison of SARS-CoV-2 indirect and direct RT-qPCR detection methods. <i>Virology Journal</i> , 2021, 18, 99.	3.4	22
58	N-Cadherin Relocalizes from the Periphery to the Center of the Synapse after Transient Synaptic Stimulation in Hippocampal Neurons. <i>PLoS ONE</i> , 2013, 8, e79679.	2.5	21
59	Aggresome assembly at the centrosome is driven by CP110 and CEP97 and CEP290 and centriolar satellites. <i>Nature Cell Biology</i> , 2022, 24, 483-496.	10.3	18
60	Myotubularin-related Proteins 3 and 4 Interact with Polo-like Kinase 1 and Centrosomal Protein of 55 kDa to Ensure Proper Abscission. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 946-960.	3.8	17
61	Systems biology of mammalian cell division. <i>Cell Cycle</i> , 2008, 7, 2123-2128.	2.6	13
62	Centrosome Biology: Polymer-Based Centrosome Maturation. <i>Current Biology</i> , 2017, 27, R836-R839.	3.9	12
63	The NEMP family supports metazoan fertility and nuclear envelope stiffness. <i>Science Advances</i> , 2020, 6, eabb4591.	10.3	11
64	CDKL kinase regulates the length of the ciliary proximal segment. <i>Current Biology</i> , 2021, 31, 2359-2373.e7.	3.9	11
65	Centrioles: Duplicating Precariously. <i>Current Biology</i> , 2007, 17, R770-R773.	3.9	10
66	Direct interaction between CEP85 and STIL mediates PLK4-driven directed cell migration. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	9
67	Charting the complex composite nature of centrosomes, primary cilia and centriolar satellites. <i>Current Opinion in Structural Biology</i> , 2021, 66, 32-40.	5.7	9
68	Centrosome Biology: The Ins and Outs of Centrosome Assembly. <i>Current Biology</i> , 2015, 25, R656-R659.	3.9	8
69	Pericentrin: Critical for Spindle Orientation. <i>Current Biology</i> , 2014, 24, R962-R964.	3.9	6
70	53BP1 Goes Back to Its p53 Roots. <i>Molecular Cell</i> , 2016, 64, 3-4.	9.7	5
71	Centrosomes: Keeping Tumors in Check. <i>Current Biology</i> , 2008, 18, R702-R704.	3.9	3
72	Global cellular response to chemical perturbation of PLK4 activity and abnormal centrosome number. <i>ELife</i> , 0, 11, .	6.0	2

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73	A magic bullet for targeting cancers with supernumerary centrosomes. EMBO Journal, 2019, 38, .	7.8	1
74	The C. elegans Centrosome during Early Embryonic Development. , 2005, , 225-250.		0
75	Centrosome Biogenesis: Centrosomin Sizes Things Up!. Current Biology, 2010, 20, R1069-R1071.	3.9	0