Isabelle Vernos

List of Publications by Year
in descending order

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91 papers	7,922 citations	71102 41 h-index	53230 85 g-index
98 all docs	98 docs citations	98 times ranked	6300 citing authors

#	Article	IF	Citations
1	Ran Induces Spindle Assembly by Reversing the Inhibitory Effect of Importin Î± on TPX2 Activity. Cell, 2001, 104, 83-93.	28.9	572
2	Genetic organization of Drosophila bithorax complex. Nature, 1985, 313, 108-113.	27.8	547
3	Structural Basis of Aurora-A Activation by TPX2 at the Mitotic Spindle. Molecular Cell, 2003, 12, 851-862.	9.7	541
4	The Mitotic Spindle: A Self-Made Machine. Science, 2001, 294, 543-547.	12.6	438
5	A model for the proposed roles of different microtubule-based motor proteins in establishing spindle bipolarity. Current Biology, 1998, 8, 903-913.	3.9	394
6	Tpx2, a Novel Xenopus Map Involved in Spindle Pole Organization. Journal of Cell Biology, 2000, 149, 1405-1418.	5.2	347
7	Chromosome-induced microtubule assembly mediated by TPX2 is required for spindle formation in HeLa cells. Nature Cell Biology, 2002, 4, 871-879.	10.3	287
8	Dynactin is required for bidirectional organelle transport. Journal of Cell Biology, 2003, 160, 297-301.	5.2	281
9	Xklp15 a chromosomal xenopus kinesin-like protein essential for spindle organization and chromosome positioning. Cell, 1995, 81, 117-127.	28.9	238
10	Xkid, a Chromokinesin Required for Chromosome Alignment on the Metaphase Plate. Cell, 2000, 102, 425-435.	28.9	219
11	The mechanism of spindle assembly. Journal of Cell Biology, 2004, 166, 949-955.	5.2	198
12	Heterotrimeric Kinesin II Is the Microtubule Motor Protein Responsible for Pigment Dispersion in Xenopus Melanophores. Journal of Cell Biology, 1998, 143, 1547-1558.	5.2	175
13	Localization of the Kinesin-like Protein Xklp2 to Spindle Poles Requires a Leucine Zipper, a Microtubule-associated Protein, and Dynein. Journal of Cell Biology, 1998, 143, 673-685.	5.2	171
14	The TACC proteins: TACC-ling microtubule dynamics and centrosome function. Trends in Cell Biology, 2008, 18, 379-388.	7.9	154
15	Xklp2, a Novel Xenopus Centrosomal Kinesin-like Protein Required for Centrosome Separation during Mitosis. Cell, 1996, 84, 49-59.	28.9	151
16	Development and Biological Evaluation of Potent and Specific Inhibitors of Mitotic Kinesin Eg5. ChemBioChem, 2005, 6, 1173-1177.	2.6	139
17	A Kinesin-like Motor Inhibits Microtubule Dynamic Instability. Science, 2004, 303, 1519-1522.	12.6	138
18	The Role of Hklp2 in the Stabilization and Maintenance of Spindle Bipolarity. Current Biology, 2009, 19, 1712-1717.	3.9	136

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19	Function and regulation of Maskin, a TACC family protein, in microtubule growth during mitosis. Journal of Cell Biology, 2005, 170, 1057-1066.	5.2	127
20	Kinesin-2 is a Motor for Late Endosomes and Lysosomes. Traffic, 2005, 6, 1114-1124.	2.7	119
21	Characterization of the TPX2 Domains Involved in Microtubule Nucleation and Spindle Assembly in Xenopus Egg Extracts. Molecular Biology of the Cell, 2004, 15, 5318-5328.	2.1	107
22	The RanGTP Pathway: From Nucleo-Cytoplasmic Transport to Spindle Assembly and Beyond. Frontiers in Cell and Developmental Biology, 2015, 3, 82.	3.7	106
23	The Plant TPX2 Protein Regulates Prospindle Assembly before Nuclear Envelope Breakdown. Plant Cell, 2008, 20, 2783-2797.	6.6	102
24	Regulation of Microtubule-dependent Recycling at the Trans-Golgi Network by Rab6A and Rab6A'. Molecular Biology of the Cell, 2005, 16, 162-177.	2.1	101
25	Microtubule assembly during mitosis â€“ from distinct origins to distinct functions?. Journal of Cell Science, 2012, 125, 2805-14.	2.0	94
26	Role of Xklp3, a Subunit of the Xenopus Kinesin II Heterotrimeric Complex, in Membrane Transport between the Endoplasmic Reticulum and the Golgi Apparatus. Journal of Cell Biology, 1998, 143, 1559-1573.	5.2	92
27	K-fibre minus ends are stabilized by a RanGTP-dependent mechanism essential for functional spindle assembly. Nature Cell Biology, 2011, 13, 1406-1414.	10.3	89
28	Kinesin II Mediates Vg1 mRNA Transport in Xenopus Oocytes. Current Biology, 2004, 14, 219-224.	3.9	83
29	Microtubule Nucleation in Mitosis by a RanGTP-Dependent Protein Complex. Current Biology, 2015, 25, 131-140.	3.9	81
30	Chromosomes take the lead in spindle assembly. Trends in Cell Biology, 1995, 5, 297-301.	7.9	80
31	Acentrosomal Microtubule Assembly in Mitosis: The Where, When, and How. Trends in Cell Biology, 2016, 26, 80-87.	7.9	80
32	Dissecting the role of Aurora A during spindle assembly. EMBO Journal, 2008, 27, 2567-2579.	7.8	79
33	Spindle-localized CPE-mediated translation controls meiotic chromosome segregation. Nature Cell Biology, 2008, 10, 858-865.	10.3	79
34	Motors involved in spindle assembly and chromosome segregation. Current Opinion in Cell Biology, 1996, 8, 4-9.	5.4	77
35	Aurora A kinase and its substrate TACC3 are required for central spindle assembly. EMBO Reports, 2013, 14, 829-836.	4.5	72
36	Nek9 Phosphorylation of NEDD1/GCP-WD Contributes to Plk1 Control of Î³-Tubulin Recruitment to the Mitotic Centrosome. Current Biology, 2012, 22, 1516-1523.	3.9	67

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37	A Role for Kinesin-2 in COPI-Dependent Recycling between the ER and the Golgi Complex. Current Biology, 2006, 16, 2245-2251.	3.9	65
38	Uncovering new substrates for Aurora A kinase. EMBO Reports, 2010, 11, 977-984.	4.5	59
39	Determinants for Aurora-A Activation and Aurora-B Discrimination by TPX2. Cell Cycle, 2004, 3, 402-405.	2.6	53
40	The Role of NEDD1 Phosphorylation by Aurora A in Chromosomal Microtubule Nucleation and Spindle Function. Current Biology, 2013, 23, 143-149.	3.9	53
41	An epigenetic regulator emerges as microtubule minus-end binding and stabilizing factor in mitosis. Nature Communications, 2015, 6, 7889.	12.8	48
42	Nek9 Phosphorylation Defines a New Role for TPX2 in Eg5-Dependent Centrosome Separation before Nuclear Envelope Breakdown. Current Biology, 2018, 28, 121-129.e4.	3.9	48
43	Multiple Kinesin-like Transcripts in Xenopus Oocytes. Developmental Biology, 1993, 157, 232-239.	2.0	44
44	Aurora-A-Dependent Control of TACC3 Influences the Rate of Mitotic Spindle Assembly. PLoS Genetics, 2015, 11, e1005345.	3.5	43
45	Allosteric inhibition of Aurora-A kinase by a synthetic vNAR domain. Open Biology, 2016, 6, 160089.	3.6	39
46	Motor protein KIFC5A interacts with Nubp1 and Nubp2, and is implicated in the regulation of centrosome duplication. Journal of Cell Science, 2006, 119, 2035-2047.	2.0	37
47	Development and Biological Evaluation of a Novel Aurora A Kinase Inhibitor. ChemBioChem, 2009, 10, 464-478.	2.6	35
48	Quotas are questionable. Nature, 2013, 495, 39-39.	27.8	34
49	Analysis of heterodimer formation by Xklp3A/B, a newly cloned kinesin-II from Xenopus laevis. EMBO Journal, 2001, 20, 3370-3379.	7.8	31
50	Chromokinesins: localization-dependent functions and regulation during cell division. Biochemical Society Transactions, 2011, 39, 1154-1160.	3.4	31
51	Embryogenesis and aging of Drosophila melanogaster flown in the space shuttle. Die Naturwissenschaften, 1986, 73, 431-432.	1.6	30
52	Chromosome motors on the move. EMBO Reports, 2001, 2, 669-673.	4.5	30
53	The role of microtubule dependent motors in centrosome movements and spindle pole organization during mitosis. Seminars in Cell and Developmental Biology, 1996, 7, 367-378.	5.0	28
54	Xkid chromokinesin is required for the meiosis I to meiosis II transition in Xenopus laevis oocytes. Nature Cell Biology, 2002, 4, 737-742.	10.3	28

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55	Non-centrosomal TPX2-Dependent Regulation of the Aurora A Kinase: Functional Implications for Healthy and Pathological Cell Division. Frontiers in Oncology, 2016, 6, 88.	2.8	28
56	Determinants for Aurora-A activation and Aurora-B discrimination by TPX2. Cell Cycle, 2004, 3, 404-7.	2.6	28
57	Different forms of Ultrabithorax proteins generated by alternative splicing are functionally equivalent.. EMBO Journal, 1990, 9, 3551-3555.	7.8	25
58	Chromokinesin Xklp1 Contributes to the Regulation of Microtubule Density and Organization during Spindle Assembly. Molecular Biology of the Cell, 2006, 17, 1451-1460.	2.1	25
59	Structure and Non-Structure of Centrosomal Proteins. PLoS ONE, 2013, 8, e62633.	2.5	25
60	The chaperonin CCT controls T cell receptorâ€“driven 3D configuration of centrioles. Science Advances, 2020, 6, .	10.3	23
61	Plant TPX2 and related proteins. Plant Signaling and Behavior, 2009, 4, 69-72.	2.4	22
62	The human sperm basal body is a complex centrosome important for embryo preimplantation development. Molecular Human Reproduction, 2021, 27, .	2.8	22
63	Kinesin subfamily UNC104 contains a FHA domain: boundaries and physicochemical characterization. FEBS Letters, 2000, 486, 285-290.	2.8	21
64	Protein 4.1R regulates interphase microtubule organization at the centrosome. Journal of Cell Science, 2004, 117, 6197-6206.	2.0	21
65	The Kinesin Superfamily Motor Protein KIF4 Is Associated With Immune Cell Activation in Idiopathic Inflammatory Myopathies. Journal of Neuropathology and Experimental Neurology, 2008, 67, 624-632.	1.7	20
66	XTACC3â€“XMAP215 association reveals an asymmetric interaction promoting microtubule elongation. Nature Communications, 2014, 5, 5072.	12.8	19
67	Role of Kif15 and its novel mitotic partner KBP in K-fiber dynamics and chromosome alignment. PLoS ONE, 2017, 12, e0174819.	2.5	17
68	Chromosome motors on the move. From motion to spindle checkpoint activity. EMBO Reports, 2001, 2, 669-73.	4.5	14
69	Insights of the tubulin code in gametes and embryos: from basic research to potential clinical applications in humansâ€. Biology of Reproduction, 2019, 100, 575-589.	2.7	13
70	The sequential activation of the mitotic microtubule assembly pathways favors bipolar spindle formation. Molecular Biology of the Cell, 2016, 27, 2935-2945.	2.1	11
71	A Dominant Negative Approach for Functional Studies of the Kinesin II Complex. , 2001, 164, 191-204.		10
72	The Chromosomal Passenger Complex Takes Center Stage during Mitosis. Developmental Cell, 2004, 7, 145-146.	7.0	9

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73	Microtubule nucleation during central spindle assembly requires NEDD1 phosphorylation on Serine 405 by Aurora A. Journal of Cell Science, 2019, 132, .	2.0	8
74	Different forms of Ultrabithorax proteins generated by alternative splicing are functionally equivalent. EMBO Journal, 1990, 9, 3551-5.	7.8	8
75	From meiosis to mitosis: the sperm centrosome defines the kinetics of spindle assembly after fertilization. Journal of Cell Science, 2016, 129, 2538-47.	2.0	7
76	Aurora A: Working from dawn to dusk in mitosis. Cell Cycle, 2014, 13, 499-500.	2.6	6
77	The C-terminal domain of TPX2 is made of alpha-helical tandem repeats. BMC Structural Biology, 2016, 16, 17.	2.3	6
78	Insects as test systems for assessing the potential role of microgravity in biological development and evolution. Advances in Space Research, 1989, 9, 137-146.	2.6	5
79	Proteomic Profiling of Microtubule Self-organization in M-phase. Molecular and Cellular Proteomics, 2018, 17, 1991-2004.	3.8	5
80	Aurora-A regulates MCRS1 function during mitosis. Cell Cycle, 2016, 15, 1779-1786.	2.6	4
81	DnaJB6 is a RanGTP-regulated protein required for microtubule organization during mitosis. Journal of Cell Science, 2019, 132, .	2.0	4
82	The Use of Dominant Negative Mutants to Study the Function of Mitotic Motors in the In Vitro Spindle Assembly Assay in Xenopus Egg Extracts. , 2001, 164, 173-189.		3
83	Detection and Quantification of Protein-Microtubules Interactions Using Green Fluorescent Protein Photoconversion. Traffic, 2006, 7, 1283-1289.	2.7	3
84	Functional Analysis of Human Pathological Semen Samples in an Oocyte Cytoplasmic Ex Vivo System. Scientific Reports, 2018, 8, 15348.	3.3	3
85	Dissecting the role of Aurora A during spindle assembly. EMBO Journal, 2008, 27, 2942-2942.	7.8	2
86	Quantitative analysis of ventral denticular patterns of Drosophila melanogaster larvae and the regulation of the bithorax complex. BioSystems, 1989, 23, 139-158.	2.0	1
87	Only one spindle, if you please .... Nature Cell Biology, 2006, 8, 901-902.	10.3	1
88	Analysis of the Involvement of the Terrestrial Space Radiation in the Microgravity Effects on Drosophila Melanogaster Development and Aging. , 1988, , 509-516.		1
89	S1 Nuclease-Sensitive Sites in the Bithoraxoid Region of the Drosophila Ultrabithorax Gene. Biochemical and Biophysical Research Communications, 1993, 194, 647-653.	2.1	0
90	Microtubule Organization in Mitotic Cells. , 2016, , 1-26.		0

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91	From meiosis to mitosis â€“ the sperm centrosome defines the kinetics of spindle assembly after fertilization in Xenopus. Development (Cambridge), 2016, 143, e1.1-e1.1.	2.5	0