

# Isabelle Vernos

## List of Publications by Year in descending order

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91  
papers

7,922  
citations

70961

41  
h-index

53109

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 $\beta$ on TPX2 Activity. <i>Cell</i> , 2001, 104, 83-93.	13.5	572
2	Genetic organization of <i>Drosophila</i> bithorax complex. <i>Nature</i> , 1985, 313, 108-113.	13.7	547
3	Structural Basis of Aurora-A Activation by TPX2 at the Mitotic Spindle. <i>Molecular Cell</i> , 2003, 12, 851-862.	4.5	541
4	The Mitotic Spindle: A Self-Made Machine. <i>Science</i> , 2001, 294, 543-547.	6.0	438
5	A model for the proposed roles of different microtubule-based motor proteins in establishing spindle bipolarity. <i>Current Biology</i> , 1998, 8, 903-913.	1.8	394
6	Tpx2, a Novel <i>Xenopus</i> Map Involved in Spindle Pole Organization. <i>Journal of Cell Biology</i> , 2000, 149, 1405-1418.	2.3	347
7	Chromosome-induced microtubule assembly mediated by TPX2 is required for spindle formation in HeLa cells. <i>Nature Cell Biology</i> , 2002, 4, 871-879.	4.6	287
8	Dynactin is required for bidirectional organelle transport. <i>Journal of Cell Biology</i> , 2003, 160, 297-301.	2.3	281
9	Xklp15 a chromosomal <i>xenopus</i> kinesin-like protein essential for spindle organization and chromosome positioning. <i>Cell</i> , 1995, 81, 117-127.	13.5	238
10	Xkid, a Chromokinesin Required for Chromosome Alignment on the Metaphase Plate. <i>Cell</i> , 2000, 102, 425-435.	13.5	219
11	The mechanism of spindle assembly. <i>Journal of Cell Biology</i> , 2004, 166, 949-955.	2.3	198
12	Heterotrimeric Kinesin II Is the Microtubule Motor Protein Responsible for Pigment Dispersion in <i>Xenopus</i> Melanophores. <i>Journal of Cell Biology</i> , 1998, 143, 1547-1558.	2.3	175
13	Localization of the Kinesin-like Protein Xklp2 to Spindle Poles Requires a Leucine Zipper, a Microtubule-associated Protein, and Dynein. <i>Journal of Cell Biology</i> , 1998, 143, 673-685.	2.3	171
14	The TACC proteins: TACC-ling microtubule dynamics and centrosome function. <i>Trends in Cell Biology</i> , 2008, 18, 379-388.	3.6	154
15	Xklp2, a Novel <i>Xenopus</i> Centrosomal Kinesin-like Protein Required for Centrosome Separation during Mitosis. <i>Cell</i> , 1996, 84, 49-59.	13.5	151
16	Development and Biological Evaluation of Potent and Specific Inhibitors of Mitotic Kinesin Eg5. <i>ChemBioChem</i> , 2005, 6, 1173-1177.	1.3	139
17	A Kinesin-like Motor Inhibits Microtubule Dynamic Instability. <i>Science</i> , 2004, 303, 1519-1522.	6.0	138
18	The Role of Hklp2 in the Stabilization and Maintenance of Spindle Bipolarity. <i>Current Biology</i> , 2009, 19, 1712-1717.	1.8	136

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19	Function and regulation of Maskin, a TACC family protein, in microtubule growth during mitosis. <i>Journal of Cell Biology</i> , 2005, 170, 1057-1066.	2.3	127
20	Kinesin-2 is a Motor for Late Endosomes and Lysosomes. <i>Traffic</i> , 2005, 6, 1114-1124.	1.3	119
21	Characterization of the TPX2 Domains Involved in Microtubule Nucleation and Spindle Assembly in <i>Xenopus</i> Egg Extracts. <i>Molecular Biology of the Cell</i> , 2004, 15, 5318-5328.	0.9	107
22	The RanGTP Pathway: From Nucleo-Cytoplasmic Transport to Spindle Assembly and Beyond. <i>Frontiers in Cell and Developmental Biology</i> , 2015, 3, 82.	1.8	106
23	The Plant TPX2 Protein Regulates Prospindle Assembly before Nuclear Envelope Breakdown. <i>Plant Cell</i> , 2008, 20, 2783-2797.	3.1	102
24	Regulation of Microtubule-dependent Recycling at the Trans-Golgi Network by Rab6A and Rab6A'. <i>Molecular Biology of the Cell</i> , 2005, 16, 162-177.	0.9	101
25	Microtubule assembly during mitosis – from distinct origins to distinct functions?. <i>Journal of Cell Science</i> , 2012, 125, 2805-14.	1.2	94
26	Role of Xklp3, a Subunit of the <i>Xenopus</i> Kinesin II Heterotrimeric Complex, in Membrane Transport between the Endoplasmic Reticulum and the Golgi Apparatus. <i>Journal of Cell Biology</i> , 1998, 143, 1559-1573.	2.3	92
27	K-fibre minus ends are stabilized by a RanGTP-dependent mechanism essential for functional spindle assembly. <i>Nature Cell Biology</i> , 2011, 13, 1406-1414.	4.6	89
28	Kinesin II Mediates Vg1 mRNA Transport in <i>Xenopus</i> Oocytes. <i>Current Biology</i> , 2004, 14, 219-224.	1.8	83
29	Microtubule Nucleation in Mitosis by a RanGTP-Dependent Protein Complex. <i>Current Biology</i> , 2015, 25, 131-140.	1.8	81
30	Chromosomes take the lead in spindle assembly. <i>Trends in Cell Biology</i> , 1995, 5, 297-301.	3.6	80
31	Acentrosomal Microtubule Assembly in Mitosis: The Where, When, and How. <i>Trends in Cell Biology</i> , 2016, 26, 80-87.	3.6	80
32	Dissecting the role of Aurora A during spindle assembly. <i>EMBO Journal</i> , 2008, 27, 2567-2579.	3.5	79
33	Spindle-localized CPE-mediated translation controls meiotic chromosome segregation. <i>Nature Cell Biology</i> , 2008, 10, 858-865.	4.6	79
34	Motors involved in spindle assembly and chromosome segregation. <i>Current Opinion in Cell Biology</i> , 1996, 8, 4-9.	2.6	77
35	Aurora A kinase and its substrate TACC3 are required for central spindle assembly. <i>EMBO Reports</i> , 2013, 14, 829-836.	2.0	72
36	Nek9 Phosphorylation of NEDD1/GCP-WD Contributes to Plk1 Control of $\hat{1}^3$ -Tubulin Recruitment to the Mitotic Centrosome. <i>Current Biology</i> , 2012, 22, 1516-1523.	1.8	67

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37	A Role for Kinesin-2 in COPI-Dependent Recycling between the ER and the Golgi Complex. <i>Current Biology</i> , 2006, 16, 2245-2251.	1.8	65
38	Uncovering new substrates for Aurora A kinase. <i>EMBO Reports</i> , 2010, 11, 977-984.	2.0	59
39	Determinants for Aurora-A Activation and Aurora-B Discrimination by TPX2. <i>Cell Cycle</i> , 2004, 3, 402-405.	1.3	53
40	The Role of NEDD1 Phosphorylation by Aurora A in Chromosomal Microtubule Nucleation and Spindle Function. <i>Current Biology</i> , 2013, 23, 143-149.	1.8	53
41	An epigenetic regulator emerges as microtubule minus-end binding and stabilizing factor in mitosis. <i>Nature Communications</i> , 2015, 6, 7889.	5.8	48
42	Nek9 Phosphorylation Defines a New Role for TPX2 in Eg5-Dependent Centrosome Separation before Nuclear Envelope Breakdown. <i>Current Biology</i> , 2018, 28, 121-129.e4.	1.8	48
43	Multiple Kinesin-like Transcripts in <i>Xenopus</i> Oocytes. <i>Developmental Biology</i> , 1993, 157, 232-239.	0.9	44
44	Aurora-A-Dependent Control of TACC3 Influences the Rate of Mitotic Spindle Assembly. <i>PLoS Genetics</i> , 2015, 11, e1005345.	1.5	43
45	Allosteric inhibition of Aurora-A kinase by a synthetic vNAR domain. <i>Open Biology</i> , 2016, 6, 160089.	1.5	39
46	Motor protein KIFC5A interacts with Nubp1 and Nubp2, and is implicated in the regulation of centrosome duplication. <i>Journal of Cell Science</i> , 2006, 119, 2035-2047.	1.2	37
47	Development and Biological Evaluation of a Novel Aurora A Kinase Inhibitor. <i>ChemBioChem</i> , 2009, 10, 464-478.	1.3	35
48	Quotas are questionable. <i>Nature</i> , 2013, 495, 39-39.	13.7	34
49	Analysis of heterodimer formation by Xklp3A/B, a newly cloned kinesin-II from <i>Xenopus laevis</i> . <i>EMBO Journal</i> , 2001, 20, 3370-3379.	3.5	31
50	Chromokinesins: localization-dependent functions and regulation during cell division. <i>Biochemical Society Transactions</i> , 2011, 39, 1154-1160.	1.6	31
51	Embryogenesis and aging of <i>Drosophila melanogaster</i> flown in the space shuttle. <i>Die Naturwissenschaften</i> , 1986, 73, 431-432.	0.6	30
52	Chromosome motors on the move. <i>EMBO Reports</i> , 2001, 2, 669-673.	2.0	30
53	The role of microtubule dependent motors in centrosome movements and spindle pole organization during mitosis. <i>Seminars in Cell and Developmental Biology</i> , 1996, 7, 367-378.	2.3	28
54	Xkid chromokinesin is required for the meiosis I to meiosis II transition in <i>Xenopus laevis</i> oocytes. <i>Nature Cell Biology</i> , 2002, 4, 737-742.	4.6	28

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55	Non-centrosomal TPX2-Dependent Regulation of the Aurora A Kinase: Functional Implications for Healthy and Pathological Cell Division. <i>Frontiers in Oncology</i> , 2016, 6, 88.	1.3	28
56	Determinants for Aurora-A activation and Aurora-B discrimination by TPX2. <i>Cell Cycle</i> , 2004, 3, 404-7.	1.3	28
57	Different forms of Ultrabithorax proteins generated by alternative splicing are functionally equivalent.. <i>EMBO Journal</i> , 1990, 9, 3551-3555.	3.5	25
58	Chromokinesin Xklp1 Contributes to the Regulation of Microtubule Density and Organization during Spindle Assembly. <i>Molecular Biology of the Cell</i> , 2006, 17, 1451-1460.	0.9	25
59	Structure and Non-Structure of Centrosomal Proteins. <i>PLoS ONE</i> , 2013, 8, e62633.	1.1	25
60	The chaperonin CCT controls T cell receptor-driven 3D configuration of centrioles. <i>Science Advances</i> , 2020, 6, .	4.7	23
61	Plant TPX2 and related proteins. <i>Plant Signaling and Behavior</i> , 2009, 4, 69-72.	1.2	22
62	The human sperm basal body is a complex centrosome important for embryo preimplantation development. <i>Molecular Human Reproduction</i> , 2021, 27, .	1.3	22
63	Kinesin subfamily UNC104 contains a FHA domain: boundaries and physicochemical characterization. <i>FEBS Letters</i> , 2000, 486, 285-290.	1.3	21
64	Protein 4.1R regulates interphase microtubule organization at the centrosome. <i>Journal of Cell Science</i> , 2004, 117, 6197-6206.	1.2	21
65	The Kinesin Superfamily Motor Protein KIF4 Is Associated With Immune Cell Activation in Idiopathic Inflammatory Myopathies. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2008, 67, 624-632.	0.9	20
66	XTACC3-XMAP215 association reveals an asymmetric interaction promoting microtubule elongation. <i>Nature Communications</i> , 2014, 5, 5072.	5.8	19
67	Role of Kif15 and its novel mitotic partner KBP in K-fiber dynamics and chromosome alignment. <i>PLoS ONE</i> , 2017, 12, e0174819.	1.1	17
68	Chromosome motors on the move. From motion to spindle checkpoint activity. <i>EMBO Reports</i> , 2001, 2, 669-73.	2.0	14
69	Insights of the tubulin code in gametes and embryos: from basic research to potential clinical applications in humans. <i>Biology of Reproduction</i> , 2019, 100, 575-589.	1.2	13
70	The sequential activation of the mitotic microtubule assembly pathways favors bipolar spindle formation. <i>Molecular Biology of the Cell</i> , 2016, 27, 2935-2945.	0.9	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. <i>Developmental Cell</i> , 2004, 7, 145-146.	3.1	9

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73	Microtubule nucleation during central spindle assembly requires NEDD1 phosphorylation on Serine 405 by Aurora A. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	8
74	Different forms of Ultrabithorax proteins generated by alternative splicing are functionally equivalent. <i>EMBO Journal</i> , 1990, 9, 3551-5.	3.5	8
75	From meiosis to mitosis: the sperm centrosome defines the kinetics of spindle assembly after fertilization. <i>Journal of Cell Science</i> , 2016, 129, 2538-47.	1.2	7
76	Aurora A: Working from dawn to dusk in mitosis. <i>Cell Cycle</i> , 2014, 13, 499-500.	1.3	6
77	The C-terminal domain of TPX2 is made of alpha-helical tandem repeats. <i>BMC Structural Biology</i> , 2016, 16, 17.	2.3	6
78	Insects as test systems for assessing the potential role of microgravity in biological development and evolution. <i>Advances in Space Research</i> , 1989, 9, 137-146.	1.2	5
79	Proteomic Profiling of Microtubule Self-organization in M-phase. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 1991-2004.	2.5	5
80	Aurora-A regulates MCRS1 function during mitosis. <i>Cell Cycle</i> , 2016, 15, 1779-1786.	1.3	4
81	DnaJB6 is a RanGTP-regulated protein required for microtubule organization during mitosis. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	4
82	The Use of Dominant Negative Mutants to Study the Function of Mitotic Motors in the In Vitro Spindle Assembly Assay in <i>Xenopus</i> Egg Extracts. , 2001, 164, 173-189.		3
83	Detection and Quantification of Protein-Microtubules Interactions Using Green Fluorescent Protein Photoconversion. <i>Traffic</i> , 2006, 7, 1283-1289.	1.3	3
84	Functional Analysis of Human Pathological Semen Samples in an Oocyte Cytoplasmic Ex Vivo System. <i>Scientific Reports</i> , 2018, 8, 15348.	1.6	3
85	Dissecting the role of Aurora A during spindle assembly. <i>EMBO Journal</i> , 2008, 27, 2942-2942.	3.5	2
86	Quantitative analysis of ventral denticular patterns of <i>Drosophila melanogaster</i> larvae and the regulation of the bithorax complex. <i>BioSystems</i> , 1989, 23, 139-158.	0.9	1
87	Only one spindle, if you please .... <i>Nature Cell Biology</i> , 2006, 8, 901-902.	4.6	1
88	Analysis of the Involvement of the Terrestrial Space Radiation in the Microgravity Effects on <i>Drosophila Melanogaster</i> Development and Aging. , 1988, , 509-516.		1
89	S1 Nuclease-Sensitive Sites in the Bithoraxoid Region of the <i>Drosophila</i> Ultrabithorax Gene. <i>Biochemical and Biophysical Research Communications</i> , 1993, 194, 647-653.	1.0	0
90	Microtubule Organization in Mitotic Cells. , 2016, , 1-26.		0

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91	From meiosis to mitosis – the sperm centrosome defines the kinetics of spindle assembly after fertilization in <i>Xenopus</i> . <i>Development (Cambridge)</i> , 2016, 143, e1.1-e1.1.	1.2	0