

# Pavla Binarova

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

2,417  
citations

236925

25  
h-index

206112

48  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2364  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Nuclear DNA content in plant cells by Flow cytometry. <i>Biologia Plantarum</i> , 1989, 31, 113-120.	1.9	592
2	A MAP Kinase Is Activated Late in Plant Mitosis and Becomes Localized to the Plane of Cell Division. <i>Plant Cell</i> , 1999, 11, 101-113.	6.6	175
3	Expression of a Nondegradable Cyclin B1 Affects Plant Development and Leads to Endomitosis by Inhibiting the Formation of a Phragmoplast. <i>Plant Cell</i> , 2004, 16, 643-657.	6.6	121
4	Plant $\beta$ -Tubulin Interacts with $\alpha$ -Tubulin Dimers and Forms Membrane-Associated Complexes. <i>Plant Cell</i> , 2003, 15, 465-480.	6.6	109
5	$\beta$ -Tubulin Is Essential for Acentrosomal Microtubule Nucleation and Coordination of Late Mitotic Events in Arabidopsis. <i>Plant Cell</i> , 2006, 18, 1199-1212.	6.6	94
6	<i>Arabidopsis</i> RETINOBLASTOMA RELATED directly regulates DNA damage responses through functions beyond cell cycle control. <i>EMBO Journal</i> , 2017, 36, 1261-1278.	7.8	83
7	A short severe heat shock is required to induce embryogenesis in late bicellular pollen of <i>Brassica napus</i> L.. <i>Sexual Plant Reproduction</i> , 1997, 10, 200-208.	2.2	79
8	A plant cyclin B2 is degraded early in mitosis and its ectopic expression shortens G2-phase and alleviates the DNA-damage checkpoint. <i>Journal of Cell Science</i> , 2003, 116, 487-498.	2.0	71
9	Treatment of <i>Vicia faba</i> root tip cells with specific inhibitors to cyclin-dependent kinases leads to abnormal spindle formation. <i>Plant Journal</i> , 1998, 16, 697-707.	5.7	69
10	Tubulin: Structure, Functions and Roles in Disease. <i>Cells</i> , 2019, 8, 1294.	4.1	68
11	Nuclear $\beta$ -Tubulin during Acentriolar Plant Mitosis. <i>Plant Cell</i> , 2000, 12, 433-442.	6.6	62
12	Dynamic Recruitment of Cdc2 to Specific Microtubule Structures during Mitosis. <i>Plant Cell</i> , 2001, 13, 1929-1943.	6.6	62
13	The cdc2Ms Kinase Is Differently Regulated in the Cytoplasm and in the Nucleus. <i>Plant Physiology</i> , 1997, 113, 841-852.	4.8	61
14	Association of $\beta$ -Tubulin with kinetochore/centromeric region of plant chromosomes. <i>Plant Journal</i> , 1998, 14, 751-757.	5.7	61
15	Dynamic Recruitment of Cdc2 to Specific Microtubule Structures during Mitosis. <i>Plant Cell</i> , 2001, 13, 1929-1943.	6.6	61
16	Nuclear DNA synthesis during the induction of embryogenesis in cultured microspores and pollen of <i>Brassica napus</i> L.. <i>Theoretical and Applied Genetics</i> , 1993, 87, 9-16.	3.6	59
17	Plant Aurora kinases play a role in maintenance of primary meristems and control of endoreduplication. <i>New Phytologist</i> , 2012, 193, 590-604.	7.3	56
18	Effect of inhibition of phenylalanine ammonia-lyase activity on growth of alfalfa cell suspension culture: Alterations in mitotic index, ethylene production, and contents of phenolics, cytokinins and polyamines. <i>Physiologia Plantarum</i> , 1999, 107, 329-337.	5.2	37

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19	Selection for resistance to filtrates of <i>Fusarium</i> spp. in embryogenic cell suspension culture of <i>Medicago sativa</i> L. <i>Plant Cell, Tissue and Organ Culture</i> , 1990, 22, 191-196.	2.3	35
20	A nodulin/glutamine synthetase-like fusion protein is implicated in the regulation of root morphogenesis and in signalling triggered by flagellin. <i>Planta</i> , 2011, 234, 459-476.	3.2	34
21	Alfalfa Embryogenic Cell Suspension Culture: Growth and Ploidy Level Stability. <i>Journal of Plant Physiology</i> , 1988, 133, 561-566.	3.5	32
22	Reinitiation of cell division and polyamine and aromatic monoamine levels in alfalfa explants during the induction of somatic embryogenesis. <i>Physiologia Plantarum</i> , 1999, 105, 330-336.	5.2	31
23	Overexpressed TPX2 causes ectopic formation of microtubular arrays in the nuclei of acentrosomal plant cells. <i>Journal of Experimental Botany</i> , 2013, 64, 4575-4587.	4.8	31
24	Localization of MPM-2 recognized phosphoproteins and tubulin during cell cycle progression in synchronized <i>Vicia faba</i> root meristem cells.. <i>Cell Biology International</i> , 1993, 17, 847-856.	3.0	29
25	Interactions of an Arabidopsis RanBPM homologue with LisH-CTLH domain proteins revealed high conservation of CTLH complexes in eukaryotes. <i>BMC Plant Biology</i> , 2012, 12, 83.	3.6	29
26	The Arabidopsis mitogen-activated protein kinase 6 is associated with $\beta$ -tubulin on microtubules, phosphorylates EB1c and maintains spindle orientation under nitrosative stress. <i>New Phytologist</i> , 2015, 207, 1061-1074.	7.3	24
27	NITRILASE1 regulates the exit from proliferation, genome stability and plant development. <i>New Phytologist</i> , 2013, 198, 685-698.	7.3	23
28	Classical Anticytokinins Do Not Interact with Cytokinin Receptors but Inhibit Cyclin-dependent Kinases. <i>Journal of Biological Chemistry</i> , 2007, 282, 14356-14363.	3.4	20
29	$\beta$ -Tubulin has a conserved intrinsic property of self-polymerization into double stranded filaments and fibrillar networks. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 734-748.	4.1	19
30	The effects of colchicine on ploidy level, morphology and embryogenic capacity of alfalfa suspension cultures. <i>Plant Science</i> , 1989, 64, 213-219.	3.6	16
31	Accumulation of phenolic acids in filtrate-treated alfalfa cell cultures derived from genotypes with different susceptibility to <i>Fusarium oxysporum</i> . <i>Journal of Plant Physiology</i> , 1992, 140, 21-27.	3.5	16
32	TPX2 Protein of Arabidopsis Activates Aurora Kinase 1, But Not Aurora Kinase 3 In Vitro. <i>Plant Molecular Biology Reporter</i> , 2015, 33, 1988-1995.	1.8	16
33	$\beta$ -Tubulin interacts with E2FA, E2FB and E2FC transcription factors, regulates proliferation and endocycle in Arabidopsis. <i>Journal of Experimental Botany</i> , 2020, 71, 1265-1277.	4.8	16
34	A Topoisomerase II-Dependent Checkpoint in G2-Phase Plant Cells Can Be Bypassed by Ectopic Expression of Mitotic Cyclin B2. <i>Cell Cycle</i> , 2002, 1, 186-191.	2.6	15
35	Changes of shikimate pathway in glyphosate tolerant alfalfa cell lines with reduced embryogenic ability. <i>Biologia Plantarum</i> , 1994, 36, 65.	1.9	14
36	Probing microtubule organizing centres with MPM-2 in dividing cells of higher plants using immunofluorescence and immunogold techniques. <i>Protoplasma</i> , 1994, 180, 106-117.	2.1	14

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37	Microtubular and Nuclear Functions of $\beta$ -Tubulin: Are They LINCed?. <i>Cells</i> , 2019, 8, 259.	4.1	14
38	Regulation of Cell Division and the Cytoskeleton by Mitogen-Activated Protein Kinases in Higher Plants. <i>Results and Problems in Cell Differentiation</i> , 2000, 27, 95-117.	0.7	13
39	Actin distribution in somatic embryos and embryogenic protoplasts of white spruce ( <i>Picea glauca</i> ). In <i>Vitro Cellular and Developmental Biology - Plant</i> , 1996, 32, 59-65.	2.1	11
40	<i>Vicia faba</i> germination: Synchronized cell growth and localization of nucleolin and $\beta$ -tubulin.. <i>Seed Science Research</i> , 1999, 9, 297-304.	1.7	8
41	Phenolic accumulation and peroxidase activity in in vitro selected alfalfa callus cultures resistant to filtrate of <i>Fusarium</i> spp.. <i>Biologia Plantarum</i> , 1992, 34, 203.	1.9	7
42	Effect of 2-aminoindan-2-phosphonic acid on cell cycle progression in synchronous meristematic cells of <i>Vicia faba</i> roots. <i>Plant Science</i> , 2003, 164, 823-832.	3.6	7
43	Cell cycle dependent distribution of phosphorylated proteins in microspores and pollen of <i>Brassica napus</i> L., detected by the monoclonal antibody MPM-2. <i>Protoplasma</i> , 1995, 187, 117-126.	2.1	5
44	Polyamine metabolism during the cell cycle of synchronized tobacco BY-2 cell line. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 584-591.	5.8	5
45	Distribution of $\gamma$ -tubulin in cellular compartments of higher plant cells. <i>Cell Biology International</i> , 2003, 27, 167-169.	3.0	4
46	Effect of anti-microtubular drug amiprofos-methyl on somatic embryogenesis and DNA ploidy levels in alfalfa and carrot cell suspension cultures. <i>Biologia Plantarum</i> , 1993, 35, 329-339.	1.9	3
47	$\beta$ -Tubulin Complexes and Fibrillar Arrays: Two Conserved High Molecular Forms with Many Cellular Functions. <i>Cells</i> , 2021, 10, 776.	4.1	3
48	Cell Cycle Modules in Plants for Entry into Proliferation and for Mitosis. , 2013, , 77-97.		2
49	A MAP Kinase Is Activated Late in Plant Mitosis and Becomes Localized to the Plane of Cell Division. <i>Plant Cell</i> , 1999, 11, 101.	6.6	1
50	Nuclear $\gamma$ -Tubulin during Acentriolar Plant Mitosis. <i>Plant Cell</i> , 2000, 12, 433.	6.6	0
51	Dynamic Recruitment of Cdc2 to Specific Microtubule Structures during Mitosis. <i>Plant Cell</i> , 2001, 13, 1929.	6.6	0
52	Actin Distribution in Mitotic Apparatus of Somatic Embryo Cells of Norway Spruce. <i>Biologia Plantarum</i> , 2003, 46, 167-174.	1.9	0
53	Gamma-Tubulins And Their Functions In Plant Cells. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2008, , 23-43.	0.2	0