

Peter V Bozhkov

List of Publications by Citations

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74
papers

11,056
citations

35
h-index

84
g-index

84
ext. papers

12,934
ext. citations

7.3
avg, IF

5.32
L-index

#	Paper	IF	Citations
74	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
73	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-546	10.2	2783
72	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , 2021 , 17, 1-382	10.2	440
71	Morphological classification of plant cell deaths. <i>Cell Death and Differentiation</i> , 2011 , 18, 1241-6	12.7	401
70	Developmental pathways of somatic embryogenesis. <i>Plant Cell, Tissue and Organ Culture</i> , 2002 , 69, 233-249	12.7	362
69	Metacaspases. <i>Cell Death and Differentiation</i> , 2011 , 18, 1279-88	12.7	242
68	Cysteine protease mClI-Pa executes programmed cell death during plant embryogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 14463-8	11.5	207
67	Metacaspase-dependent programmed cell death is essential for plant embryogenesis. <i>Current Biology</i> , 2004 , 14, R339-40	6.3	170
66	Tudor staphylococcal nuclease is an evolutionarily conserved component of the programmed cell death degradome. <i>Nature Cell Biology</i> , 2009 , 11, 1347-54	23.4	163
65	Developmental pathway of somatic embryogenesis in <i>Picea abies</i> as revealed by time-lapse tracking. <i>Journal of Experimental Botany</i> , 2000 , 51, 249-64	7	163
64	VEIDase is a principal caspase-like activity involved in plant programmed cell death and essential for embryonic pattern formation. <i>Cell Death and Differentiation</i> , 2004 , 11, 175-82	12.7	120
63	Autophagy and metacaspase determine the mode of cell death in plants. <i>Journal of Cell Biology</i> , 2013 , 203, 917-27	7.3	111
62	Re-organisation of the cytoskeleton during developmental programmed cell death in <i>Picea abies</i> embryos. <i>Plant Journal</i> , 2003 , 33, 813-24	6.9	103
61	Programmed cell death in plant embryogenesis. <i>Current Topics in Developmental Biology</i> , 2005 , 67, 135-79	7.3	102
60	Autophagy as initiator or executioner of cell death. <i>Trends in Plant Science</i> , 2014 , 19, 692-7	13.1	98
59	Somatic embryogenesis: life and death processes during apical-basal patterning. <i>Journal of Experimental Botany</i> , 2014 , 65, 1343-60	7	92
58	Assessment of the integral membrane protein topology in living cells. <i>Plant Journal</i> , 2006 , 46, 145-54	6.9	89

57	A key developmental switch during Norway spruce somatic embryogenesis is induced by withdrawal of growth regulators and is associated with cell death and extracellular acidification. <i>Biotechnology and Bioengineering</i> , 2002 , 77, 658-67	4.9	83
56	Programmed cell death eliminates all but one embryo in a polyembryonic plant seed. <i>Cell Death and Differentiation</i> , 2002 , 9, 1057-62	12.7	78
55	Tudor staphylococcal nuclease links formation of stress granules and processing bodies with mRNA catabolism in Arabidopsis. <i>Plant Cell</i> , 2015 , 27, 926-43	11.6	74
54	Transcriptional stimulation of rate-limiting components of the autophagic pathway improves plant fitness. <i>Journal of Experimental Botany</i> , 2018 , 69, 1415-1432	7	73
53	Variation in transcript abundance during somatic embryogenesis in gymnosperms. <i>Tree Physiology</i> , 2004 , 24, 1073-85	4.2	68
52	Polyethylene glycol promotes maturation but inhibits further development of <i>Picea abies</i> somatic embryos. <i>Physiologia Plantarum</i> , 1998 , 104, 211-224	4.6	66
51	A bipartite molecular module controls cell death activation in the Basal cell lineage of plant embryos. <i>PLoS Biology</i> , 2013 , 11, e1001655	9.7	61
50	Bacteria Exploit Autophagy for Proteasome Degradation and Enhanced Virulence in Plants. <i>Plant Cell</i> , 2018 , 30, 668-685	11.6	59
49	Autophagy-related approaches for improving nutrient use efficiency and crop yield protection. <i>Journal of Experimental Botany</i> , 2018 , 69, 1335-1353	7	52
48	Metacaspases versus caspases in development and cell fate regulation. <i>Cell Death and Differentiation</i> , 2017 , 24, 1314-1325	12.7	44
47	Autophagy mediates caloric restriction-induced lifespan extension in Arabidopsis. <i>Aging Cell</i> , 2013 , 12, 327-9	9.9	43
46	Tudor staphylococcal nuclease: biochemistry and functions. <i>Cell Death and Differentiation</i> , 2016 , 23, 1739-1748	17.4	43
45	Up, down and up again is a signature global gene expression pattern at the beginning of gymnosperm embryogenesis. <i>Gene Expression Patterns</i> , 2003 , 3, 83-91	1.5	42
44	The level of free intracellular zinc mediates programmed cell death/cell survival decisions in plant embryos. <i>Plant Physiology</i> , 2008 , 147, 1158-67	6.6	38
43	Developmental regulation of a VEIDase caspase-like proteolytic activity in barley caryopsis. <i>Journal of Experimental Botany</i> , 2006 , 57, 3747-53	7	37
42	Heterologous array analysis in Pinaceae: hybridization of <i>Pinus taeda</i> cDNA arrays with cDNA from needles and embryogenic cultures of <i>P. Taeda</i> , <i>P. Sylvestris</i> or <i>Picea abies</i> . <i>Comparative and Functional Genomics</i> , 2002 , 3, 306-18		37
41	Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. <i>Molecular Cell</i> , 2020 , 77, 927-929	17.6	35
40	Developmental and genetic variation in nuclear microsatellite stability during somatic embryogenesis in pine. <i>Journal of Experimental Botany</i> , 2007 , 58, 687-98	7	35

39	Expression patterns of two glutamine synthetase genes in zygotic and somatic pine embryos support specific roles in nitrogen metabolism during embryogenesis. <i>New Phytologist</i> , 2006 , 169, 35-44	9.8	32
38	Vacuolar cell death in plants: Metacaspase releases the brakes on autophagy. <i>Autophagy</i> , 2014 , 10, 928-940	10.2	30
37	The caspase-related protease separase (extra spindle poles) regulates cell polarity and cytokinesis in Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 2171-86	11.6	30
36	Impact of salt stress, cell death, and autophagy on peroxisomes: quantitative and morphological analyses using small fluorescent probe N-BODIPY. <i>Scientific Reports</i> , 2017 , 7, 39069	4.9	27
35	Propagation of Norway spruce via somatic embryogenesis. <i>Plant Cell, Tissue and Organ Culture</i> , 2005 , 81, 323-329	2.7	27
34	Separase Promotes Microtubule Polymerization by Activating CENP-E-Related Kinesin Kin7. <i>Developmental Cell</i> , 2016 , 37, 350-361	10.2	26
33	Autophagy and cell-death proteases in plants: two wheels of a funeral cart. <i>Autophagy</i> , 2007 , 3, 136-8	10.2	23
32	KNOTTED1-like homeobox genes of a gymnosperm, Norway spruce, expressed during somatic embryogenesis. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 837-843	5.4	23
31	High stability of nuclear microsatellite loci during the early stages of somatic embryogenesis in Norway spruce. <i>Tree Physiology</i> , 2004 , 24, 1181-6	4.2	22
30	Oil crops for the future. <i>Current Opinion in Plant Biology</i> , 2020 , 56, 181-189	9.9	19
29	Autophagy in turnover of lipid stores: trans-kingdom comparison. <i>Journal of Experimental Botany</i> , 2018 , 69, 1301-1311	7	19
28	Early selection improves clonal performance and reduces intraclonal variation of Norway spruce plants propagated by somatic embryogenesis. <i>Tree Physiology</i> , 2003 , 23, 211-6	4.2	19
27	Aspasing out metacaspases and caspases: proteases of many trades. <i>Science Signaling</i> , 2010 , 3, pe48	8.8	16
26	Separases: biochemistry and function. <i>Physiologia Plantarum</i> , 2012 , 145, 67-76	4.6	15
25	Genetic variation in microsatellite stability of somatic embryo plants of <i>Picea abies</i> : A case study using six unrelated full-sib families. <i>Scandinavian Journal of Forest Research</i> , 2008 , 23, 2-11	1.7	15
24	A pronounced synergistic effect of abscisic acid and 6-benzyladenine on Norway spruce (<i>Picea abies</i> L. Karst) somatic embryo maturation. <i>Plant Cell Reports</i> , 1992 , 11, 386-9	5.1	15
23	Limited and digestive proteolysis: crosstalk between evolutionary conserved pathways. <i>New Phytologist</i> , 2017 , 215, 958-964	9.8	14
22	Chemical Screening Pipeline for Identification of Specific Plant Autophagy Modulators. <i>Plant Physiology</i> , 2019 , 181, 855-866	6.6	14

21	Influence of Nitrogen Balance of Culture Medium on Norway Spruce [<i>Picea abies</i> (L.) Karst] Somatic Polyembryogenesis: High Frequency Establishment of Embryonal-Suspensor Mass Lines from Mature Zygotic Embryos. <i>Journal of Plant Physiology</i> , 1993 , 142, 735-741	3.6	13
20	EXTRA SPINDLE POLES (Separase) controls anisotropic cell expansion in Norway spruce (<i>Picea abies</i>) embryos independently of its role in anaphase progression. <i>New Phytologist</i> , 2016 , 212, 232-43	9.8	9
19	Detection and measurement of necrosis in plants. <i>Methods in Molecular Biology</i> , 2013 , 1004, 229-48	1.4	8
18	Transcriptome analysis of embryonic domains in Norway spruce reveals potential regulators of suspensor cell death. <i>PLoS ONE</i> , 2018 , 13, e0192945	3.7	8
17	The homolog of Scc4/MAU2 is essential for embryogenesis. <i>Journal of Cell Science</i> , 2017 , 130, 1051-1063	5.3	7
16	Suppression of Metacaspase- and Autophagy-Dependent Cell Death Improves Stress-Induced Microspore Embryogenesis in <i>Brassica napus</i> . <i>Plant and Cell Physiology</i> , 2021 , 61, 2097-2110	4.9	6
15	Tudor Staphylococcal Nuclease plays two antagonistic roles in RNA metabolism under stress. <i>Plant Signaling and Behavior</i> , 2015 , 10, e1071005	2.5	5
14	Detection of programmed cell death in plant embryos. <i>Methods in Molecular Biology</i> , 2008 , 427, 173-9	1.4	5
13	Plant metacaspase activation and activity. <i>Methods in Molecular Biology</i> , 2014 , 1133, 237-53	1.4	5
12	The Life and Death Signalling Underlying Cell Fate Determination During Somatic Embryogenesis. <i>Plant Cell Monographs</i> , 2014 , 131-178	0.6	5
11	Tudor staphylococcal nuclease is a docking platform for stress granule components and is essential for SnRK1 activation in Arabidopsis. <i>EMBO Journal</i> , 2021 , 40, e105043	13	4
10	The Proteolytic Landscape of an Arabidopsis Separase-Deficient Mutant Reveals Novel Substrates Associated With Plant Development		3
9	Subcellular Localization of Acyl-CoA: Lysophosphatidylethanolamine Acyltransferases (LPEATs) and the Effects of Knocking-Out and Overexpression of Their Genes on Autophagy Markers Level and Life Span of. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
8	Apoptosis is not conserved in plants as revealed by critical examination of a model for plant apoptosis-like cell death. <i>BMC Biology</i> , 2021 , 19, 100	7.3	3
7	Chlamydomonas proteases: classification, phylogeny, and molecular mechanisms. <i>Journal of Experimental Botany</i> , 2021 , 72, 7680-7693	7	3
6	Characterization of Cytokinetic Mutants Using Small Fluorescent Probes. <i>Methods in Molecular Biology</i> , 2016 , 1370, 199-208	1.4	2
5	Propagation of Norway spruce via somatic embryogenesis 2005 , 283-293		1
4	Genotypic and media factors affecting stabilization of polyembryogenic cultures in norway spruce (<i>Picea abies</i> (L.) Karst.). <i>Plant Cell Reports</i> , 1995 , 14, 389-92	5.1	1

3	Tudor staphylococcal nuclease acts as a docking platform for stress granule components in <i>Arabidopsis thaliana</i>	1
2	Expression and Purification of the Type II Metacaspase from a Unicellular Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Methods in Molecular Biology</i> , 2022 , 2447, 13-20	1.4 ○
1	The Arabidopsis homolog of Scc4/MAU2 is essential for embryogenesis. <i>Development (Cambridge)</i> , 2017 , 144, e1.2-e1.2	6.6