Peter V Bozhkov

List of Publications by Year in Descending Order

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	Expression and Purification of the Type II Metacaspase from a Unicellular Green Alga Chlamydomonas reinhardtii.. *Methods in Molecular Biology*, **2022**, 2447, 13-20	1.4	0
73	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. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
72	Apoptosis is not conserved in plants as revealed by critical examination of a model for plant apoptosis-like cell death. *BMC Biology*, **2021**, 19, 100	7.3	3
71	Tudor staphylococcal nuclease is a docking platform for stress granule components and is essential for SnRK1 activation in Arabidopsis. *EMBO Journal*, **2021**, 40, e105043	13	4
70	Suppression of Metacaspase- and Autophagy-Dependent Cell Death Improves Stress-Induced Microspore Embryogenesis in Brassica napus. *Plant and Cell Physiology*, **2021**, 61, 2097-2110	4.9	6
69	Chlamydomonas proteases: classification, phylogeny, and molecular mechanisms. *Journal of Experimental Botany*, **2021**, 72, 7680-7693	7	3
68	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). *Autophagy*, **2021**, 17, 1-382	10.2	440
67	Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. *Molecular Cell*, **2020**, 77, 927-929	17.6	35
66	Oil crops for the future. *Current Opinion in Plant Biology*, **2020**, 56, 181-189	9.9	19
65	Chemical Screening Pipeline for Identification of Specific Plant Autophagy Modulators. *Plant Physiology*, **2019**, 181, 855-866	6.6	14
64	Autophagy-related approaches for improving nutrient use efficiency and crop yield protection. *Journal of Experimental Botany*, **2018**, 69, 1335-1353	7	52
63	Bacteria Exploit Autophagy for Proteasome Degradation and Enhanced Virulence in Plants. *Plant Cell*, **2018**, 30, 668-685	11.6	59
62	Transcriptional stimulation of rate-limiting components of the autophagic pathway improves plant fitness. *Journal of Experimental Botany*, **2018**, 69, 1415-1432	7	73
61	Autophagy in turnover of lipid stores: trans-kingdom comparison. *Journal of Experimental Botany*, **2018**, 69, 1301-1311	7	19
60	Transcriptome analysis of embryonic domains in Norway spruce reveals potential regulators of suspensor cell death. *PLoS ONE*, **2018**, 13, e0192945	3.7	8
59	The homolog of Scc4/MAU2 is essential for embryogenesis. *Journal of Cell Science*, **2017**, 130, 1051-1063	5.3	7
58	Metacaspases versus caspases in development and cell fate regulation. *Cell Death and Differentiation*, **2017**, 24, 1314-1325	12.7	44

57	Impact of salt stress, cell death, and autophagy on peroxisomes: quantitative and morphological analyses using small fluorescent probe N-BODIPY. *Scientific Reports*, **2017**, 7, 39069	4.9	27
56	Limited and digestive proteolysis: crosstalk between evolutionary conserved pathways. *New Phytologist*, **2017**, 215, 958-964	9.8	14
55	The Arabidopsis homolog of Scc4/MAU2 is essential for embryogenesis. *Development (Cambridge)*, **2017**, 144, e1.2-e1.2	6.6	
54	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
53	Characterization of Cytokinetic Mutants Using Small Fluorescent Probes. *Methods in Molecular Biology*, **2016**, 1370, 199-208	1.4	2
52	EXTRA SPINDLE POLES (Separase) controls anisotropic cell expansion in Norway spruce (Picea abies) embryos independently of its role in anaphase progression. *New Phytologist*, **2016**, 212, 232-43	9.8	9
51	Separase Promotes Microtubule Polymerization by Activating CENP-E-Related Kinesin Kin7. *Developmental Cell*, **2016**, 37, 350-361	10.2	26
50	Tudor staphylococcal nuclease: biochemistry and functions. *Cell Death and Differentiation*, **2016**, 23, 1739-1748	9.2	43
49	Tudor Staphylococcal Nuclease plays two antagonistic roles in RNA metabolism under stress. *Plant Signaling and Behavior*, **2015**, 10, e1071005	2.5	5
48	Tudor staphylococcal nuclease links formation of stress granules and processing bodies with mRNA catabolism in Arabidopsis. *Plant Cell*, **2015**, 27, 926-43	11.6	74
47	Somatic embryogenesis: life and death processes during apical-basal patterning. *Journal of Experimental Botany*, **2014**, 65, 1343-60	7	92
46	Autophagy as initiator or executioner of cell death. *Trends in Plant Science*, **2014**, 19, 692-7	13.1	98
45	Vacuolar cell death in plants: Metacaspase releases the brakes on autophagy. *Autophagy*, **2014**, 10, 928-9	10.2	30
44	Plant metacaspase activation and activity. *Methods in Molecular Biology*, **2014**, 1133, 237-53	1.4	5
43	The Life and Death Signalling Underlying Cell Fate Determination During Somatic Embryogenesis. *Plant Cell Monographs*, **2014**, 131-178	0.6	5
42	Autophagy and metacaspase determine the mode of cell death in plants. *Journal of Cell Biology*, **2013**, 203, 917-27	7.3	111
41	Detection and measurement of necrosis in plants. *Methods in Molecular Biology*, **2013**, 1004, 229-48	1.4	8
40	A bipartite molecular module controls cell death activation in the Basal cell lineage of plant embryos. *PLoS Biology*, **2013**, 11, e1001655	9.7	61

39	The caspase-related protease separase (extra spindle poles) regulates cell polarity and cytokinesis in Arabidopsis. *Plant Cell*, **2013**, 25, 2171-86	11.6	30
38	Autophagy mediates caloric restriction-induced lifespan extension in Arabidopsis. *Aging Cell*, **2013**, 12, 327-9	9.9	43
37	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
36	Separases: biochemistry and function. *Physiologia Plantarum*, **2012**, 145, 67-76	4.6	15
35	Morphological classification of plant cell deaths. *Cell Death and Differentiation*, **2011**, 18, 1241-6	12.7	401
34	Metacaspases. *Cell Death and Differentiation*, **2011**, 18, 1279-88	12.7	242
33	Aspasing out metacaspases and caspases: proteases of many trades. *Science Signaling*, **2010**, 3, pe48	8.8	16
32	Tudor staphylococcal nuclease is an evolutionarily conserved component of the programmed cell death degradome. *Nature Cell Biology*, **2009**, 11, 1347-54	23.4	163
31	Detection of programmed cell death in plant embryos. *Methods in Molecular Biology*, **2008**, 427, 173-9	1.4	5
30	The level of free intracellular zinc mediates programmed cell death/cell survival decisions in plant embryos. *Plant Physiology*, **2008**, 147, 1158-67	6.6	38
29	Genetic variation in microsatellite stability of somatic embryo plants of Picea abies: A case study using six unrelated full-sib families. *Scandinavian Journal of Forest Research*, **2008**, 23, 2-11	1.7	15
28	Developmental and genetic variation in nuclear microsatellite stability during somatic embryogenesis in pine. *Journal of Experimental Botany*, **2007**, 58, 687-98	7	35
27	Autophagy and cell-death proteases in plants: two wheels of a funeral cart. *Autophagy*, **2007**, 3, 136-8	10.2	23
26	Developmental regulation of a VEIDase caspase-like proteolytic activity in barley caryopsis. *Journal of Experimental Botany*, **2006**, 57, 3747-53	7	37
25	Expression patterns of two glutamine synthetase genes in zygotic and somatic pine embryos support specific roles in nitrogen metabolism during embryogenesis. *New Phytologist*, **2006**, 169, 35-44	9.8	32
24	Assessment of the integral membrane protein topology in living cells. *Plant Journal*, **2006**, 46, 145-54	6.9	89
23	Programmed cell death in plant embryogenesis. *Current Topics in Developmental Biology*, **2005**, 67, 135-79	5.3	102
22	Propagation of Norway spruce via somatic embryogenesis. *Plant Cell, Tissue and Organ Culture*, **2005**, 81, 323-329	2.7	27

21	Cysteine protease mcII-Pa executes programmed cell death during plant embryogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14463-8	11.5	207
20	Propagation of Norway spruce via somatic embryogenesis **2005**, 283-293		1
19	Variation in transcript abundance during somatic embryogenesis in gymnosperms. *Tree Physiology*, **2004**, 24, 1073-85	4.2	68
18	High stability of nuclear microsatellite loci during the early stages of somatic embryogenesis in Norway spruce. *Tree Physiology*, **2004**, 24, 1181-6	4.2	22
17	VEIDase is a principal caspase-like activity involved in plant programmed cell death and essential for embryonic pattern formation. *Cell Death and Differentiation*, **2004**, 11, 175-82	12.7	120
16	Metacaspase-dependent programmed cell death is essential for plant embryogenesis. *Current Biology*, **2004**, 14, R339-40	6.3	170
15	Early selection improves clonal performance and reduces intraclonal variation of Norway spruce plants propagated by somatic embryogenesis. *Tree Physiology*, **2003**, 23, 211-6	4.2	19
14	Up, down and up again is a signature global gene expression pattern at the beginning of gymnosperm embryogenesis. *Gene Expression Patterns*, **2003**, 3, 83-91	1.5	42
13	Re-organisation of the cytoskeleton during developmental programmed cell death in Picea abies embryos. *Plant Journal*, **2003**, 33, 813-24	6.9	103
12	Heterologous array analysis in Pinaceae: hybridization of Pinus taeda cDNA arrays with cDNA from needles and embryogenic cultures of P. Taeda, P. Sylvestris or Picea abies. *Comparative and Functional Genomics*, **2002**, 3, 306-18		37
11	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. *Biotechnology and Bioengineering*, **2002**, 77, 658-67	4.9	83
10	KNOTTED1-like homeobox genes of a gymnosperm, Norway spruce, expressed during somatic embryogenesis. *Plant Physiology and Biochemistry*, **2002**, 40, 837-843	5.4	23
9	Programmed cell death eliminates all but one embryo in a polyembryonic plant seed. *Cell Death and Differentiation*, **2002**, 9, 1057-62	12.7	78
8	Developmental pathways of somatic embryogenesis. *Plant Cell, Tissue and Organ Culture*, **2002**, 69, 233-249	2.7	362
7	Developmental pathway of somatic embryogenesis in Picea abies as revealed by time-lapse tracking. *Journal of Experimental Botany*, **2000**, 51, 249-64	7	163
6	Polyethylene glycol promotes maturation but inhibits further development of Picea abies somatic embryos. *Physiologia Plantarum*, **1998**, 104, 211-224	4.6	66
5	Genotypic and media factors affecting stabilization of polyembryogenic cultures in norway spruce (Picea abies (L.) Karst.). *Plant Cell Reports*, **1995**, 14, 389-92	5.1	1
4	Influence of Nitrogen Balance of Culture Medium on Norway Spruce [Picea abies (L.) Karst] Somatic Polyembryogenesis: High Frequency Establishment of Embryonal-Suspensor Mass Lines from Mature Zygotic Embryos. *Journal of Plant Physiology*, **1993**, 142, 735-741	3.6	13

3	A pronounced synergistic effect of abscisic acid and 6-benzyladenine on Norway spruce (Picea abies L. Karst) somatic embryo maturation. *Plant Cell Reports*, **1992**, 11, 386-9	5.1	15
2	The Proteolytic Landscape of an Arabidopsis Separase-Deficient Mutant Reveals Novel Substrates Associated With Plant Development		3
1	Tudor staphylococcal nuclease acts as a docking platform for stress granule components in Arabidopsis thaliana		1