

Pilar S Testillano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

4,083
citations

35
h-index

58
g-index

126
ext. papers

4,647
ext. citations

4.1
avg, IF

5.2
L-index

#	Paper	IF	Citations
119	Deciphering the Epigenetic Alphabet Involved in Transgenerational Stress Memory in Crops. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	12
118	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
117	Endogenous auxin accumulation/localization during zygotic and somatic embryogenesis of <i>Capsicum chinense</i> Jacq. <i>Journal of Plant Physiology</i> , 2021 , 258-259, 153333	3.6	1
116	Epigenetics for Crop Improvement in Times of Global Change. <i>Biology</i> , 2021 , 10,	4.9	12
115	Small molecule inhibitors of mammalian GSK-3 β promote in vitro plant cell reprogramming and somatic embryogenesis in crop and forest species. <i>Journal of Experimental Botany</i> , 2021 , 72, 7808-7825	7	1
114	In Situ/Subcellular Localization of Arabinogalactan Protein Expression by Fluorescent In Situ Hybridization (FISH). <i>Methods in Molecular Biology</i> , 2020 , 2149, 403-427	1.4	
113	Advances in Plant Regeneration: Shake, Rattle and Roll. <i>Plants</i> , 2020 , 9,	4.5	8
112	Stress-Induced Microspore Embryogenesis Requires Endogenous Auxin Synthesis and Polar Transport in Barley. <i>Frontiers in Plant Science</i> , 2019 , 10, 1200	6.2	12
111	Microspore embryogenesis: targeting the determinant factors of stress-induced cell reprogramming for crop improvement. <i>Journal of Experimental Botany</i> , 2019 , 70, 2965-2978	7	37
110	Proteases with caspase 3-like activity participate in cell death during stress-induced microspore embryogenesis of <i>Brassica napus</i> . <i>The EuroBiotech Journal</i> , 2019 , 3, 152-159	1.5	2
109	Modulation of autophagy and protease activities by small bioactive compounds to reduce cell death and improve stress-induced microspore embryogenesis initiation in rapeseed and barley. <i>Plant Signaling and Behavior</i> , 2019 , 14, 1559577	2.5	7
108	Pectin De-methylesterification and AGP Increase Promote Cell Wall Remodeling and Are Required During Somatic Embryogenesis of. <i>Frontiers in Plant Science</i> , 2018 , 9, 1915	6.2	21
107	Autophagy-related approaches for improving nutrient use efficiency and crop yield protection. <i>Journal of Experimental Botany</i> , 2018 , 69, 1335-1353	7	52
106	Autophagy is activated and involved in cell death with participation of cathepsins during stress-induced microspore embryogenesis in barley. <i>Journal of Experimental Botany</i> , 2018 , 69, 1387-1402	7	36
105	The effects of organophosphorus insecticides and heavy metals on DNA damage and programmed cell death in two plant models. <i>Environmental Pollution</i> , 2018 , 240, 77-86	9.3	26
104	Somatic Embryogenesis of <i>Quercus suber</i> L. From Immature Zygotic Embryos. <i>Methods in Molecular Biology</i> , 2018 , 1815, 247-256	1.4	8
103	Development of the ovule and seed of Habanero chili pepper (<i>Capsicum chinense</i> Jacq.): Anatomical characterization and immunocytochemical patterns of pectin methyl-esterification. <i>Journal of Plant Physiology</i> , 2018 , 230, 1-12	3.6	5

102	Quercus Ilex L.. <i>Forestry Sciences</i> , 2018 , 135-147		1
101	Stress-Induced Microspore Embryogenesis in Crop Plants: Cell Totipotency Acquisition and Embryo Development. <i>Progress in Botany Fortschritte Der Botanik</i> , 2018 , 227-241	0.6	3
100	Effect of in vitro morphogenesis on the production of podophyllotoxin derivatives in callus cultures of <i>Linum album</i> . <i>Journal of Plant Physiology</i> , 2018 , 228, 47-58	3.6	7
99	Stress-Induced Microspore Embryogenesis by Anther Culture of <i>Quercus suber</i> L.. <i>Forestry Sciences</i> , 2018 , 93-105		6
98	Initiation of leaf somatic embryogenesis involves high pectin esterification, auxin accumulation and DNA demethylation in <i>Quercus alba</i> . <i>Journal of Plant Physiology</i> , 2017 , 213, 42-54	3.6	30
97	Inhibition of Histone H3K9 Methylation by BIX-01294 Promotes Stress-Induced Microspore Totipotency and Enhances Embryogenesis Initiation. <i>Frontiers in Plant Science</i> , 2017 , 8, 1161	6.2	31
96	Detection of Epigenetic Modifications During Microspore Embryogenesis: Analysis of DNA Methylation Patterns Dynamics. <i>Methods in Molecular Biology</i> , 2016 , 1359, 491-502	1.4	4
95	BnPME is progressively induced after microspore reprogramming to embryogenesis, correlating with pectin de-esterification and cell differentiation in <i>Brassica napus</i> . <i>BMC Plant Biology</i> , 2016 , 16, 176	5.3	18
94	Auxin Biosynthesis, Accumulation, Action and Transport are Involved in Stress-Induced Microspore Embryogenesis Initiation and Progression in <i>Brassica napus</i> . <i>Plant and Cell Physiology</i> , 2015 , 56, 1401-17	4.9	34
93	Early embryo achievement through isolated microspore culture in <i>Citrus clementina</i> Hort. ex Tan., cvs. Monreal Rosso and Tulest. <i>Frontiers in Plant Science</i> , 2015 , 6, 413	6.2	21
92	5-azacytidine promotes microspore embryogenesis initiation by decreasing global DNA methylation, but prevents subsequent embryo development in rapeseed and barley. <i>Frontiers in Plant Science</i> , 2015 , 6, 472	6.2	53
91	Quantum dot and superparamagnetic nanoparticle interaction with pathogenic fungi: internalization and toxicity profile. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9100-10	9.5	61
90	Early markers are present in both embryogenesis pathways from microspores and immature zygotic embryos in cork oak, <i>Quercus suber</i> L. <i>BMC Plant Biology</i> , 2014 , 14, 224	5.3	41
89	Differential expression patterns of arabinogalactan proteins in <i>Arabidopsis thaliana</i> reproductive tissues. <i>Journal of Experimental Botany</i> , 2014 , 65, 5459-71	7	44
88	Epigenetic changes accompany developmental programmed cell death in tapetum cells. <i>Plant and Cell Physiology</i> , 2014 , 55, 16-29	4.9	29
87	Changes in DNA methylation levels and nuclear distribution patterns after microspore reprogramming to embryogenesis in barley. <i>Cytogenetic and Genome Research</i> , 2014 , 143, 200-8	1.9	33
86	Changes in histone methylation and acetylation during microspore reprogramming to embryogenesis occur concomitantly with Bn HKMT and Bn HAT expression and are associated with cell totipotency, proliferation, and differentiation in <i>Brassica napus</i> . <i>Cytogenetic and Genome Research</i> , 2014 , 143, 209-18	1.9	34
85	The 5-methyl-deoxy-cytidine (5mdC) localization to reveal in situ the dynamics of DNA methylation chromatin pattern in a variety of plant organ and tissue cells during development. <i>Physiologia Plantarum</i> , 2013 , 149, 104-13	4.6	20

84	Arabinogalactan protein profiles and distribution patterns during microspore embryogenesis and pollen development in <i>Brassica napus</i> . <i>Plant Reproduction</i> , 2013 , 26, 231-43	3.9	42
83	DNA methylation dynamics and MET1a-like gene expression changes during stress-induced pollen reprogramming to embryogenesis. <i>Journal of Experimental Botany</i> , 2012 , 63, 6431-44	7	59
82	NO, ROS, and cell death associated with caspase-like activity increase in stress-induced microspore embryogenesis of barley. <i>Journal of Experimental Botany</i> , 2012 , 63, 2007-24	7	87
81	A new microspore embryogenesis system under low temperature which mimics zygotic embryogenesis initials, expresses auxin and efficiently regenerates doubled-haploid plants in <i>Brassica napus</i> . <i>BMC Plant Biology</i> , 2012 , 12, 127	5.3	69
80	GintAMT2, a new member of the ammonium transporter family in the arbuscular mycorrhizal fungus <i>Glomus intraradices</i> . <i>Fungal Genetics and Biology</i> , 2011 , 48, 1044-55	3.9	114
79	A change of developmental program induces the remodeling of the interchromatin domain during microspore embryogenesis in <i>Brassica napus</i> L. <i>Journal of Plant Physiology</i> , 2011 , 168, 746-57	3.6	24
78	First stages of microspore reprogramming to embryogenesis through anther culture in <i>Prunus armeniaca</i> L.. <i>Environmental and Experimental Botany</i> , 2011 , 71, 152-157	5.9	16
77	Dual targeting to mitochondria and plastids of AtBT1 and ZmBT1, two members of the mitochondrial carrier family. <i>Plant and Cell Physiology</i> , 2011 , 52, 597-609	4.9	26
76	FIRST STAGES OF MICROSPORE REPROGRAMMING TO EMBRYOGENESIS THROUGH ISOLATED MICROSPORE CULTURE IN LOQUAT. <i>Acta Horticulturae</i> , 2011 , 285-290	0.3	4
75	Cell wall components and pectin esterification levels as markers of proliferation and differentiation events during pollen development and pollen embryogenesis in <i>Capsicum annuum</i> L. <i>Journal of Experimental Botany</i> , 2010 , 61, 1159-75	7	53
74	Microspore reprogramming to embryogenesis induces changes in cell wall and starch accumulation dynamics associated with proliferation and differentiation events. <i>Plant Signaling and Behavior</i> , 2010 , 5, 341-5	2.5	11
73	Carbon-iron magnetic nanoparticles for agronomic use in plants: promising but still a long way to go. <i>Plant Signaling and Behavior</i> , 2010 , 5, 1295-7	2.5	10
72	Efficient plant regeneration through somatic embryogenesis from anthers and ovaries of six autochthonous grapevine cultivars from Galicia (Spain). <i>Scientia Horticulturae</i> , 2010 , 125, 342-352	4.1	19
71	In situ detection of Esr proteins secretion during maize microspore embryogenesis and their secretion blockage show effects on the culture progression. <i>Functional Plant Biology</i> , 2010 , 37, 985	2.7	8
70	Changes in Cell/Tissue Organization and Peroxidase Activity as Markers for Early Detection of Graft Incompatibility in Peach/Plum Combinations. <i>Journal of the American Society for Horticultural Science</i> , 2010 , 135, 9-17	2.3	37
69	Tracking Gene and Protein Expression During Microspore Embryogenesis by Confocal Laser Scanning Microscopy 2009 , 339-347		14
68	Pollen development in <i>Annona cherimola</i> Mill. (Annonaceae). Implications for the evolution of aggregated pollen. <i>BMC Plant Biology</i> , 2009 , 9, 129	5.3	31
67	Nanoparticle penetration and transport in living pumpkin plants: in situ subcellular identification. <i>BMC Plant Biology</i> , 2009 , 9, 45	5.3	270

66	Epigenetic characterization of the vegetative and floral stages of azalea buds: dynamics of DNA methylation and histone H4 acetylation. <i>Journal of Plant Physiology</i> , 2009 , 166, 1624-36	3.6	31
65	Cellular response of pea plants to cadmium toxicity: cross talk between reactive oxygen species, nitric oxide, and calcium. <i>Plant Physiology</i> , 2009 , 150, 229-43	6.6	458
64	Nanoparticles as smart treatment-delivery systems in plants: assessment of different techniques of microscopy for their visualization in plant tissues. <i>Annals of Botany</i> , 2008 , 101, 187-95	4.1	255
63	Asymmetrical distribution of the transcriptionally competent NORs in mitosis. <i>Journal of Structural Biology</i> , 2008 , 163, 40-4	3.4	4
62	Early markers of in vitro microspore reprogramming to embryogenesis in olive (<i>Olea europaea</i> L.). <i>Plant Science</i> , 2008 , 174, 597-605	5.3	41
61	In situ molecular identification of the Ntf4 MAPK expression sites in maturing and germinating pollen. <i>Biology of the Cell</i> , 2007 , 99, 209-21	3.5	11
60	Resistance to broomrape (<i>Orobancha crenata</i>) in faba bean (<i>Vicia faba</i>): cell wall changes associated with prehaustorial defensive mechanisms. <i>Annals of Applied Biology</i> , 2007 , 151, 89-98	2.6	45
59	In situ molecular identification of the plastid omega3 fatty acid desaturase FAD7 from soybean: evidence of thylakoid membrane localization. <i>Plant Physiology</i> , 2007 , 145, 1336-44	6.6	26
58	Identification and subcellular localization of the soybean copper P1B-ATPase GmHMA8 transporter. <i>Journal of Structural Biology</i> , 2007 , 158, 46-58	3.4	33
57	Biosynthesis of ascorbic acid in legume root nodules. <i>Plant Physiology</i> , 2006 , 141, 1068-77	6.6	51
56	Development of multicellular pollen of <i>Eriobotrya japonica</i> Lindl. through anther culture. <i>Plant Science</i> , 2006 , 171, 718-725	5.3	17
55	Excess copper induces structural changes in cultured photosynthetic soybean cells. <i>Functional Plant Biology</i> , 2006 , 33, 1001-1012	2.7	21
54	Nuclear bodies domain changes with microspore reprogramming to embryogenesis. <i>European Journal of Histochemistry</i> , 2006 , 50, 35-44	2.1	22
53	Microspore-derived embryogenesis in pepper (<i>Capsicum annum</i> L.): subcellular rearrangements through development. <i>Biology of the Cell</i> , 2005 , 97, 709-22	3.5	55
52	Differentiating plant cells switched to proliferation remodel the functional organization of nuclear domains. <i>Cytogenetic and Genome Research</i> , 2005 , 109, 166-74	1.9	40
51	Multicellular structures developing during maize microspore culture express endosperm and embryo-specific genes and show different embryogenic potentialities. <i>European Journal of Cell Biology</i> , 2005 , 84, 663-75	6.1	27
50	Mitogen-activated protein kinases are developmentally regulated during stress-induced microspore embryogenesis in <i>Brassica napus</i> L. <i>Histochemistry and Cell Biology</i> , 2005 , 123, 541-51	2.4	34
49	Three dimensional confocal and electron microscopy imaging define the dynamics and mechanisms of diploidisation at early stages of barley microspore-derived embryogenesis. <i>Planta</i> , 2005 , 222, 47-57	4.7	51

48	Cell architecture during gametophytic and embryogenic microspore development in <i>Brassica napus</i> L.. <i>Acta Physiologiae Plantarum</i> , 2005 , 27, 665-674	2.6	30
47	Isolation and functional characterisation of two new bZIP maize regulators of the ABA responsive gene <i>rab28</i> . <i>Plant Molecular Biology</i> , 2005 , 58, 899-914	4.6	56
46	Thyroid hormone regulates tubulin expression in mammalian liver. Effects of deleting thyroid hormone receptor-alpha or -beta. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E87-94	6	6
45	Expression of allene oxide cyclase and accumulation of jasmonates during organogenic nodule formation from hop (<i>Humulus lupulus</i> var. Nugget) internodes. <i>Plant and Cell Physiology</i> , 2005 , 46, 1713-1723	4.9	10
44	Changes in extranucleolar transcription during actinomycin D-induced apoptosis. <i>Histology and Histopathology</i> , 2005 , 20, 107-117	1.4	21
43	Expression of lipoxygenase during organogenic nodule formation from hop internodes. <i>Journal of Histochemistry and Cytochemistry</i> , 2004 , 52, 227-41	3.4	12
42	Changes in pectins and MAPKs related to cell development during early microspore embryogenesis in <i>Quercus suber</i> L. <i>European Journal of Cell Biology</i> , 2004 , 83, 213-25	6.1	21
41	Differential expression and cellular localization of ERKs during organogenic nodule formation from internodes of <i>Humulus lupulus</i> var. Nugget. <i>European Journal of Cell Biology</i> , 2004 , 83, 425-33	6.1	8
40	Spontaneous chromosome doubling results from nuclear fusion during in vitro maize induced microspore embryogenesis. <i>Chromosoma</i> , 2004 , 112, 342-9	2.8	53
39	The MAP kinase kinase NtMEK2 is involved in tobacco pollen germination. <i>FEBS Letters</i> , 2004 , 560, 86-90	3.8	18
38	Visualization of transcription sites at the electron microscope. <i>European Journal of Histochemistry</i> , 2003 , 47, 195-200	2.1	22
37	Changes in Tomato Leaves Induced by NaCl Stress: Leaf Organization and Cell Ultrastructure. <i>Biologia Plantarum</i> , 2003 , 46, 361-366	2.1	27
36	Developmental cooperation of leukemia inhibitory factor and insulin-like growth factor I in mice is tissue-specific and essential for lung maturation involving the transcription factors Sp3 and TTF-1. <i>Mechanisms of Development</i> , 2003 , 120, 349-61	1.7	28
35	Microspore-derived embryos from <i>Quercus suber</i> anthers mimic zygotic embryos and maintain haploidy in long-term anther culture. <i>Journal of Plant Physiology</i> , 2003 , 160, 953-60	3.6	35
34	Hsp70 and Hsp90 change their expression and subcellular localization after microspore embryogenesis induction in <i>Brassica napus</i> L. <i>Journal of Structural Biology</i> , 2003 , 142, 379-91	3.4	64
33	Studies on callose and cutin during the expression of competence and determination for organogenic nodule formation from internodes of <i>Humulus lupulus</i> var. Nugget. <i>Physiologia Plantarum</i> , 2002 , 116, 113-120	4.6	23
32	MAPKs entry into the nucleus at specific interchromatin domains in plant differentiation and proliferation processes. <i>Journal of Structural Biology</i> , 2002 , 140, 200-13	3.4	37
31	Young microspore-derived maize embryos show two domains with defined features also present in zygotic embryogenesis. <i>International Journal of Developmental Biology</i> , 2002 , 46, 1035-47	1.9	40

30	MAP kinase signaling during pollen development. <i>Sexual Plant Reproduction</i> , 2001 , 14, 15-19		15
29	The protein kinases AtMAP3Kepsilon1 and BnMAP3Kepsilon1 are functional homologues of <i>S. pombe cdc7p</i> and may be involved in cell division. <i>Plant Journal</i> , 2001 , 26, 637-49	6.9	28
28	Genes encoding chitinase-antifreeze proteins are regulated by cold and expressed by all cell types in winter rye shoots. <i>Physiologia Plantarum</i> , 2001 , 112, 359-371	4.6	24
27	Genes normally expressed in the endosperm are expressed at early stages of microspore embryogenesis in maize. <i>Plant Molecular Biology</i> , 2000 , 44, 559-74	4.6	58
26	Immunoelectron microscopy of PCNA as an efficient marker for studying replication times and sites during pollen development. <i>Chromosoma</i> , 2000 , 109, 397-409	2.8	15
25	Defined nuclear changes accompany the reprogramming of the microspore to embryogenesis. <i>Journal of Structural Biology</i> , 2000 , 129, 223-32	3.4	46
24	Ultrastructural distribution of a MAP kinase and transcripts in quiescent and cycling plant cells and pollen grains. <i>Journal of Cell Science</i> , 1999 , 112 (Pt 7), 1065-76	5.3	9
23	Histones and DNA ultrastructural distribution in plant cell nucleus: a combination of immunogold and cytochemical methods. <i>Experimental Cell Research</i> , 1998 , 242, 45-59	4.2	19
22	New in situ approaches to study the induction of pollen embryogenesis in <i>Capsicum annum</i> L. <i>European Journal of Cell Biology</i> , 1996 , 69, 373-86	6.1	19
21	Cellular characterization of key developmental stages for pollen embryogenesis induction. <i>International Journal of Developmental Biology</i> , 1996 , Suppl 1, 127S-128S	1.9	1
20	In situ characterization of the late vacuolate microspore as a convenient stage to induce embryogenesis in <i>Capsicum</i> . <i>Protoplasma</i> , 1995 , 187, 60-71	3.4	32
19	Ultrastructural localization of the polysaccharidic component during the sporoderm ontogeny of the pollen grain of <i>Scilla peruviana</i> (Lilliaceae) and <i>Capsicum annum</i> (Solanaceae). <i>Review of Palaeobotany and Palynology</i> , 1995 , 85, 53-62	1.7	5
18	The immunolocalization of nuclear antigens during the pollen developmental program and the induction of pollen embryogenesis. <i>Experimental Cell Research</i> , 1995 , 221, 41-54	4.2	40
17	The methylation-acetylation method: an ultrastructural cytochemistry for nucleic acids compatible with immunogold studies. <i>Journal of Structural Biology</i> , 1995 , 114, 123-39	3.4	25
16	A new approach to map transcription sites at the ultrastructural level. <i>Journal of Histochemistry and Cytochemistry</i> , 1994 , 42, 1-10	3.4	46
15	Effects of cycloheximide on the structural organization of the nucleolus and the coiled body in normal and stimulated supraoptic neurons of the rat. <i>Journal of Neurocytology</i> , 1994 , 23, 500-13		9
14	Cytochemistry and immunocytochemistry of nucleolar chromatin in plants. <i>Micron</i> , 1994 , 25, 331-60	2.3	31
13	Immunoelectron microscopy of RNA combined with nucleic acid cytochemistry in plant nucleoli. <i>Experimental Cell Research</i> , 1994 , 212, 393-408	4.2	15

12	Tendances Évolutives de la structure exinique dans les genres <i>Ulex</i> , <i>Stauracanthus</i> et <i>Genista</i> (Genisteae, Papilionoideae: Leguminosae). <i>Acta Botanica Gallica</i> , 1994 , 141, 195-205		1
11	Mechanisms of polyamine action during senescence responses induced by osmotic stress. <i>Journal of Experimental Botany</i> , 1994 , 45, 1789-1800	7	100
10	Ultrastructural rRNA localization in plant cell nucleoli. RNA/RNA in situ hybridization, autoradiography and cytochemistry. <i>Journal of Cell Science</i> , 1993 , 106 (Pt 4), 1333-46	5.3	3
9	Characterization of the interchromatin region as the nuclear domain containing snRNPs in plant cells. A cytochemical and immunoelectron microscopy study. <i>European Journal of Cell Biology</i> , 1993 , 61, 349-61	6.1	20
8	Immunolocalization of nuclear antigens and ultrastructural cytochemistry on tapetal cells of <i>Scilla peruviana</i> and <i>Capsicum annum</i> . <i>Plant Systematics and Evolution Supplementum = Entwicklungsgeschichte Und Systematik Der Pflanzen Supplementum</i> , 1993 , 75-90		4
7	Distribution of B-36 nucleolar protein in relation to transcriptional activity in plant cells. <i>Chromosoma</i> , 1992 , 102, 41-49	2.8	14
6	A specific ultrastructural method to reveal DNA: the NAMA-Ur. <i>Journal of Histochemistry and Cytochemistry</i> , 1991 , 39, 1427-38	3.4	50
5	Selective Staining of DNA at the Ultrastructural Level After Alkaline Hydrolysis 1990 , 477-481		1
4	Fluorescence of plastic embedded tissue sections after curcumin staining. <i>Biotechnic & Histochemistry</i> , 1989 , 64, 207-9		5
3	Tungsten and molybdenum heteropolyacids as staining and contrasting agents: reactivity with epoxyresin-embedded cell and tissue structures. <i>Acta Histochemica</i> , 1989 , 86, 151-8	2	9
2	Variations of Nucleolar Ultrastructure in Relation to Transcriptional Activity During G1 S, and G2 Periods of Microspore Interphase 1988 , 9-14		7
1	Evolution of Nuclear Interchromatin Structures During Microspore Interphase Periods 1988 , 151-156		4