JosÃ© M SeguÃ--Simarro

List of Publications by Year
in descending order

85 papers	7,599 citations	126907 33 h-index	66911 78 g-index
87 all docs	87 docs citations	87 times ranked	16373 citing authors

#	Article	IF	Citations
1	Evaluation of the androgenic competence of 66 wild Turkish Vaccaria hispanica (Mill.) Rauschert genotypes through microspore culture. Plant Cell, Tissue and Organ Culture, 2022, 148, 209-214.	2.3	2
2	Quantitative and qualitative study of endogenous and exogenous growth regulators in eggplant (Solanum melongena) microspore cultures. Plant Growth Regulation, 2022, 96, 345-355.	3.4	7
3	Haploid Plant Production in Borage (Borago officinalis L.) by Anther Culture. Methods in Molecular Biology, 2021, 2289, 237-248.	0.9	0
4	Production of Doubled Haploid Plants in Cucumber (Cucumis sativus L.) Through Anther Culture. Methods in Molecular Biology, 2021, 2289, 71-85.	0.9	2
5	Overview of In Vitro and In Vivo Doubled Haploid Technologies. Methods in Molecular Biology, 2021, 2287, 3-22.	0.9	14
6	Analysis of Ploidy in Haploids and Doubled Haploids. Methods in Molecular Biology, 2021, 2287, 105-125.	0.9	2
7	Doubled Haploid Production in High- and Low-Response Genotypes of Rapeseed (Brassica napus) Through Isolated Microspore Culture. Methods in Molecular Biology, 2021, 2288, 129-144.	0.9	4
8	Anther and Isolated Microspore Culture in Eggplant (Solanum melongena L.). Methods in Molecular Biology, 2021, 2288, 235-250.	0.9	1
9	Species with Haploid or Doubled Haploid Protocols. Methods in Molecular Biology, 2021, 2287, 41-103.	0.9	7
10	A refined method for ovule culture in sugar beet (Beta vulgaris L.). Plant Cell, Tissue and Organ Culture, 2021, 146, 259-267.	2.3	7
11	Doubled Haploids in Eggplant. Biology, 2021, 10, 685.	2.8	10
12	Anther Culture in Sweet Pepper (Capsicum annuum L.). Methods in Molecular Biology, 2021, 2288, 279-291.	0.9	2
13	Anther Culture of Chickpea (Cicer arietinum L.). Methods in Molecular Biology, 2021, 2289, 289-299.	0.9	1
14	Cell Wall Composition and Structure Define the Developmental Fate of Embryogenic Microspores in Brassica napus. Frontiers in Plant Science, 2021, 12, 737139.	3.6	6
15	Effects of growth conditions of donor plants and in vitro culture environment in the viability and the embryogenic response of microspores of different eggplant genotypes. Euphytica, 2020, 216, 1.	1.2	6
16	Anther Culture in Eggplant (Solanum melongena L.). Methods in Molecular Biology, 2020, 2122, 283-293.	0.9	5
17	Isolated Microspore Culture in Brassica napus. Methods in Molecular Biology, 2020, 2122, 269-282.	0.9	2
18	Phenological phases of flowering in hop (Humulus lupulus L.) and their correspondence with microsporogenesis and microgametogenesis. Scientia Horticulturae, 2019, 256, 108639.	3.6	3

#	Article	IF	Citations
19	Dynamic Changes in Arabinogalactan-Protein, Pectin, Xyloglucan and Xylan Composition of the Cell Wall During Microspore Embryogenesis in Brassica napus. Frontiers in Plant Science, 2019, 10, 332.	3.6	19
20	Mitochondrial Zea mays Brittle1-1 Is a Major Determinant of the Metabolic Fate of Incoming Sucrose and Mitochondrial Function in Developing Maize Endosperms. Frontiers in Plant Science, 2019, 10, 242.	3.6	8
21	Embryogenic competence of microspores is associated with their ability to form a callosic, osmoprotective subintinal layer. Journal of Experimental Botany, 2019, 70, 1267-1281.	4.8	20
22	Comparison of six different methods to calculate cell densities. Plant Methods, 2018, 14, 30.	4.3	43
23	Procedures for ADC Immunoblotting and Immunolocalization for Transmission Electron Microscopy During Organogenic Nodule Formation in Hop. Methods in Molecular Biology, 2018, 1694, 201-214.	0.9	0
24	Assessment of different anther culture approaches to produce doubled haploids in cucumber (Cucumis sativus L.). Euphytica, 2018, 214, 1.	1.2	9
25	Production of doubled haploid plants from anther cultures of borage (Borago officinalis L.) by the application of chemical and physical stress. Plant Cell, Tissue and Organ Culture, 2017, 130, 369-378.	2.3	17
26	Development and characterization of an eggplant (Solanum melongena) doubled haploid population and a doubled haploid line with high androgenic response. Euphytica, 2017, 213, 1.	1.2	23
27	Dynamics of Calcium during In vitro Microspore Embryogenesis and In vivo Microspore Development in Brassica napus and Solanum melongena. Frontiers in Plant Science, 2017, 8, 1177.	3.6	19
28	Unraveling Massive Crocins Transport and Accumulation through Proteome and Microscopy Tools during the Development of Saffron Stigma. International Journal of Molecular Sciences, 2017, 18, 76.	4.1	46
29	Optimization of the conditions for production of synthetic seeds by encapsulation of axillary buds derived from minituber sprouts in potato (Solanum tuberosum). Plant Cell, Tissue and Organ Culture, 2016, 126, 449-458.	2.3	11
30	Ultrastructural Immunolocalization of Arabinogalactan Protein, Pectin and Hemicellulose Epitopes Through Anther Development inBrassica napus. Plant and Cell Physiology, 2016, 57, 2161-2174.	3.1	25
31	Development of backcross generations and new interspecific hybrid combinations for introgression breeding in eggplant (Solanum melongena). Scientia Horticulturae, 2016, 213, 199-207.	3.6	66
32	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
33	Anther Culture in Pepper (Capsicum annuum L.). Methods in Molecular Biology, 2016, 1359, 467-474.	0.9	7
34	Androgenesis in Solanaceae. Methods in Molecular Biology, 2016, 1359, 209-244.	0.9	32
35	Induction of Embryogenesis in Brassica Napus Microspores Produces a Callosic Subintinal Layer and Abnormal Cell Walls with Altered Levels of Callose and Cellulose. Frontiers in Plant Science, 2015, 6, 1018.	3.6	20
36	Editorial: Doubled Haploidy in Model and Recalcitrant Species. Frontiers in Plant Science, 2015, 6, 1175.	3.6	15

#	Article	IF	Citations
37	Formation and excretion of autophagic plastids (plastolysomes) in Brassica napus embryogenic microspores. Frontiers in Plant Science, 2015, 6, 94.	3.6	16
38	Improved regeneration of eggplant doubled haploids from microspore-derived calli through organogenesis. Plant Cell, Tissue and Organ Culture, 2015, 122, 759-765.	2.3	21
39	Induction of androgenesis and production of haploid embryos in anther cultures of borage (Borago) Tj ETQq1 1 0.784314 rgBT /Overl	2.3	11
40	Three-Dimensional Imaging for Electron Microscopy of Plastic-Embedded Plant Specimens. , 2015, , 135-151.		1
41	Refining the method for eggplant microspore culture: effect of abscisic acid, epibrassinolide, polyethylene glycol, naphthaleneacetic acid, 6-benzylaminopurine and arabinogalactan proteins. Euphytica, 2014, 195, 369-382.	1.2	29
42	Stress treatments and in vitro culture conditions influence microspore embryogenesis and growth of callus from anther walls of sweet pepper (Capsicum annuum L.). Plant Cell, Tissue and Organ Culture, 2013, 112, 353-360.	2.3	35
43	The use of corms produced under storage at low temperatures as a source of explants for the in vitro propagation of saffron reduces contamination levels and increases multiplication rates. Industrial Crops and Products, 2013, 46, 97-104.	5.2	22
44	Overexpression of plastidial thioredoxin f leads to enhanced starch accumulation in tobacco leaves. Plant Biotechnology Journal, 2013, 11, 618-627.	8.3	63
45	Morphological markers to correlate bud and anther development with microsporogenesis and microgametogenesis in pepper (Capsicum annuum L.). Acta Physiologiae Plantarum, 2013, 35, 627-633.	2.1	26
46	Novel features of Brassica napus embryogenic microspores revealed by high pressure freezing and freeze substitution: evidence for massive autophagy and excretion-based cytoplasmic cleaning. Journal of Experimental Botany, 2013, 64, 3061-3075.	4.8	34
47	Chaperone-like properties of tobacco plastid thioredoxins f and m. Journal of Experimental Botany, 2012, 63, 365-379.	4.8	45
48	Efficient production of callus-derived doubled haploids through isolated microspore culture in eggplant (Solanum melongena L.). Euphytica, 2012, 187, 47-61.	1.2	36
49	Enhancing secondary embryogenesis in Brassica napus by selecting hypocotyl-derived embryos and using plant-derived smoke extract in culture medium. Plant Cell, Tissue and Organ Culture, 2012, 110, 307-315.	2.3	13
50	Characterization of interspecific hybrids and first backcross generations from crosses between two cultivated eggplants (Solanum melongena and S. aethiopicum Kumba group) and implications for eggplant breeding. Euphytica, 2012, 186, 517-538.	1.2	63
51	Influence of the stage for anther excision and heterostyly in embryogenesis induction from eggplant anther cultures. Euphytica, 2012, 184, 235-250.	1.2	49
52	A change of developmental program induces the remodeling of the interchromatin domain during microspore embryogenesis in Brassica napus L.. Journal of Plant Physiology, 2011, 168, 746-757.	3.5	26
53	Arginine Decarboxylase expression, polyamines biosynthesis and reactive oxygen species during organogenic nodule formation in hop. Plant Signaling and Behavior, 2011, 6, 258-269.	2.4	17
54	Tobacco plastidial thioredoxins as modulators of recombinant protein production in transgenic chloroplasts. Plant Biotechnology Journal, 2011, 9, 639-650.	8.3	27

#	Article	IF	Citations
55	Genetic, quantitative and microscopic evidence for fusion of haploid nuclei and growth of somatic calli in cultured ms10 35 tomato anthers. Euphytica, 2011, 178, 215-228.	1.2	19
56	Evaluation of androgenic competence through anther culture in common eggplant and related species. Euphytica, 2011, 182, 261.	1.2	56
57	Androgenesis in recalcitrant solanaceous crops. Plant Cell Reports, 2011, 30, 765-778.	5.6	80
58	Androgenesis Revisited. Botanical Review, The, 2010, 76, 377-404.	3.9	94
59	Mitochondrial reticulation in shoot apical meristem cells of Arabidopsis provides a mechanism for homogenization of mtDNA prior to gamete formation. Plant Signaling and Behavior, 2009, 4, 168-171.	2.4	53
60	An efficient method for transformation of pre-androgenic, isolated Brassica napus microspores involving microprojectile bombardment and Agrobacterium-mediated transformation. Acta Physiologiae Plantarum, 2009, 31, 1313-1317.	2.1	29
61	The Mitochondrial Cycle of Arabidopsis Shoot Apical Meristem and Leaf Primordium Meristematic Cells Is Defined by a Perinuclear Tentaculate/Cage-Like Mitochondrion Â. Plant Physiology, 2008, 148, 1380-1393.	4.8	72
62	Human papillomavirus L1 protein expressed in tobacco chloroplasts selfâ€assembles into virusâ€like particles that are highly immunogenic. Plant Biotechnology Journal, 2008, 6, 427-441.	8.3	125
63	How microspores transform into haploid embryos: changes associated with embryogenesis induction and microsporeâ€derived embryogenesis. Physiologia Plantarum, 2008, 134, 1-12.	5.2	111
64	Pathways to doubled haploidy: chromosome doubling during androgenesis. Cytogenetic and Genome Research, 2008, 120, 358-369.	1.1	72
65	Plant Cytokinesis â€“ Insights Gained from Electron Tomography Studies. Plant Cell Monographs, 2007, , 251-287.	0.4	18
66	Embryogenesis induction, callogenesis, and plant regeneration by in vitro culture of tomato isolated microspores and whole anthers. Journal of Experimental Botany, 2007, 58, 1119-1132.	4.8	62
67	ANDROGENESIS INDUCTION FROM TOMATO ANTHER CULTURES: CALLUS CHARACTERIZATION. Acta Horticulturae, 2006, , 855-862.	0.2	7
68	Cell cycle-dependent changes in Golgi stacks, vacuoles, clathrin-coated vesicles and multivesicular bodies in meristematic cells of Arabidopsis thaliana: A quantitative and spatial analysis. Planta, 2006, 223, 223-236.	3.2	118
69	Electron Tomographic Analysis of the Assembly of cis-Golgi cisternae and of Cell Plates. Microscopy and Microanalysis, 2005, 11, .	0.4	0
70	Mitogen-activated protein kinases are developmentally regulated during stress-induced microspore embryogenesis in Brassica napus L. Histochemistry and Cell Biology, 2005, 123, 541-551.	1.7	43
71	Cell architecture during gametophytic and embryogenic microspore development in Brassica napus L.. Acta Physiologiae Plantarum, 2005, 27, 665-674.	2.1	36
72	Meiotic metaphase I to telophase II as the most responsive stage during microspore development for callus induction in tomato (Solanum lycopersicum) anther cultures. Acta Physiologiae Plantarum, 2005, 27, 675-685.	2.1	29

#	Article	IF	Citations
73	Quantitative analysis of changes in spatial distribution and plus-end geometry of microtubules involved in plant-cell cytokinesis. Journal of Cell Science, 2005, 118, 3895-3903.	2.0	86
74	Differentiating plant cells switched to proliferation remodel the functional organization of nuclear domains. Cytogenetic and Genome Research, 2005, 109, 166-174.	1.1	41
75	Electron Tomographic Analysis of Somatic Cell Plate Formation in Meristematic Cells of Arabidopsis Preserved by High-Pressure Freezing[W]. Plant Cell, 2004, 16, 836-856.	6.6	267
76	Microspore-derived embryos fromQuercus suberanthers mimic zygotic embryos and maintain haploidy in long-term anther culture. Journal of Plant Physiology, 2003, 160, 953-960.	3.5	38
77	Hsp70 and Hsp90 change their expression and subcellular localization after microspore embryogenesis induction in Brassica napus L.. Journal of Structural Biology, 2003, 142, 379-391.	2.8	71
78	SCD1 is required for cell cytokinesis and polarized cell expansion in Arabidopsis thaliana. Development (Cambridge), 2003, 130, 4011-4024.	2.5	93
79	MAPKs entry into the nucleus at specific interchromatin domains in plant differentiation and proliferation processes. Journal of Structural Biology, 2002, 140, 200-213.	2.8	38
80	Alcohol Exposure Alters the Expression Pattern of Neural Cell Adhesion Molecules During Brain Development. Journal of Neurochemistry, 2002, 75, 954-964.	3.9	95
81	The protein kinases AtMAP3KÎµ1 and BnMAP3KÎµ1 are functional homologues of S. pombe cdc7p and may be involved in cell division. Plant Journal, 2001, 26, 637-649.	5.7	35
82	Defined Nuclear Changes Accompany the Reprogramming of the Microspore to Embryogenesis. Journal of Structural Biology, 2000, 129, 223-232.	2.8	49
83	Intracellular location, temporal expression, and polysialylation of neural cell adhesion molecule in astrocytes in primary culture. , 1998, 24, 415-427.		32
84	Prenatal alcohol exposure affects galactosyltransferase activity and glycoconjugates in the Golgi apparatus of fetal rat hepatocytes. Hepatology, 1997, 25, 343-350.	7.3	26
85	Effect of the genotype, explant source and culture medium in somatic embryogenesis and organogenesis in Vaccaria hispanica (Mill.) Rauschert. Plant Cell, Tissue and Organ Culture, 0, , 1.	2.3	4