Scott D Russell

List of Publications by Year
in descending order

84 papers	3,645 citations	136950 32 h-index	138484 58 g-index
87 all docs	87 docs citations	87 times ranked	2698 citing authors

#	Article	IF	Citations
1	Resetting of the 24-nt siRNA landscape in rice zygotes. Genome Research, 2022, 32, 309-323.	5.5	13
2	Genome-wide redistribution of 24-nt siRNAs in rice gametes. Genome Research, 2020, 30, 173-184.	5.5	32
3	Step-by-step protocols for rice gamete isolation. Plant Reproduction, 2019, 32, 5-13.	2.2	15
4	The GmFWL1 (FW2â€2â€like) nodulation gene encodes a plasma membrane microdomainâ€associated protein. Plant, Cell and Environment, 2017, 40, 1442-1455.	5.7	23
5	Isolation of Rice Sperm Cells for Transcriptional Profiling. Methods in Molecular Biology, 2017, 1669, 211-219.	0.9	3
6	The Zygotic Transition Is Initiated in Unicellular Plant Zygotes with Asymmetric Activation of Parental Genomes. Developmental Cell, 2017, 43, 349-358.e4.	7.0	83
7	Cis-Regulatory Elements Determine Germline Specificity and Expression Level of an Isopentenyltransferase Gene in Sperm Cells of Arabidopsis. Plant Physiology, 2016, 170, 1524-1534.	4.8	7
8	The male germline of angiosperms: repertoire of an inconspicuous but important cell lineage. Frontiers in Plant Science, 2015, 6, 173.	3.6	23
9	Defects in cytoskeletal microtubule deployment of microsporocytes contribute to fertility loss in genic male-sterile Chinese cabbage. Plant Reproduction, 2013, 26, 55-61.	2.2	5
10	Transcriptomes of isolated Oryza sativa gametes characterized by deep sequencing: evidence for distinct sexâ€dependent chromatin and epigenetic states before fertilization. Plant Journal, 2013, 76, 729-741.	5.7	89
11	Silica nanoparticles aid in structural leaf coloration in the Malaysian tropical rainforest understorey herb Mapania caudata. Annals of Botany, 2013, 112, 1141-1148.	2.9	100
12	Genomic profiling of rice sperm cell transcripts reveals conserved and distinct elements in the flowering plant male germ lineage. New Phytologist, 2012, 195, 560-573.	7.3	64
13	Putative cis-regulatory elements in genes highly expressed in rice sperm cells. BMC Research Notes, 2011, 4, 319.	1.4	46
14	Germline specification in plant reproduction. Sexual Plant Reproduction, 2011, 24, 89-89.	2.2	0
15	Migration of sperm cells during pollen tube elongation in Arabidopsis thaliana: behavior during transport, maturation and upon dissociation of male germ unit associations. Planta, 2011, 233, 325-332.	3.2	20
16	Glutathione synthesis is essential for pollen germination in vitro. BMC Plant Biology, 2011, 11, 54.	3.6	58
17	Subcellular distribution of glutathione in the gametophyte. Plant Signaling and Behavior, 2011, 6, 1259-1262.	2.4	4
18	Isolation of Male and Female Gametes of Rice. Crop Science, 2010, 50, 2457-2463.	1.8	7

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19	Male gamete biology in flowering plants. Biochemical Society Transactions, 2010, 38, 598-603.	3.4	7
20	Distribution of calcium in the stigma and style of tobacco during pollen germination and tube elongation. Sexual Plant Reproduction, 2009, 22, 87-96.	2.2	34
21	Sexual Plant Reproduction Congresses: 2008. Sexual Plant Reproduction, 2009, 22, 205-205.	2.2	1
22	Gene expression in the dimorphic sperm cells of Plumbago zeylanica: transcript profiling, diversity, and relationship to cell type. Plant Journal, 2009, 60, 33-47.	5.7	47
23	Molecular repertoire of flowering plant male germ cells. Sexual Plant Reproduction, 2008, 21, 27-36.	2.2	31
24	Calcium changes during megasporogenesis and megaspore degeneration in lettuce (Lactuca sativa L.). Sexual Plant Reproduction, 2008, 21, 197-204.	2.2	17
25	Transcriptome-Based Examination of Putative Pollen Allergens of Rice (Oryza sativa ssp. japonica). Molecular Plant, 2008, 1, 751-759.	8.3	27
26	Calcium function and distribution during fertilization in angiosperms. American Journal of Botany, 2007, 94, 1046-1060.	1.7	98
27	BEN1, a gene encoding a dihydroflavonol 4-reductase (DFR)-like protein, regulates the levels of brassinosteroids inArabidopsis thaliana. Plant Journal, 2007, 51, 220-233.	5.7	87
28	BAK1 and BKK1 Regulate Brassinosteroid-Dependent Growth and Brassinosteroid-Independent Cell-Death Pathways. Current Biology, 2007, 17, 1109-1115.	3.9	378
29	In vitro fertilization as a tool for investigating sexual reproduction of angiosperms. Sexual Plant Reproduction, 2006, 19, 103-115.	2.2	54
30	A highly efficient in vitro plant regeneration system and Agrobacterium-mediated transformation in Plumbago zeylanica. Plant Cell Reports, 2006, 25, 513-521.	5.6	23
31	Relationship between double fertilization and the cell cycle in male and female gametes of tobacco. Sexual Plant Reproduction, 2005, 17, 243-252.	2.2	57
32	Microgametogenesis in Plumbago zeylanica (Plumbaginaceae). 2. Quantitative cell and organelle dynamics of the male reproductive cell lineage. Sexual Plant Reproduction, 2005, 18, 113-130.	2.2	15
33	Experimental Analysis of the Fertilization Process. Plant Cell, 2004, 16, S107-S118.	6.6	163
34	Response of an allergenic species, Ambrosia psilostachya (Asteraceae), to experimental warming and clipping: implications for public health. American Journal of Botany, 2002, 89, 1843-1846.	1.7	71
35	The Mechanisms of Pollination and Fertilization in Plants. Annual Review of Cell and Developmental Biology, 2002, 18, 81-105.	9.4	299
36	Developmental expression of polyubiquitin genes and distribution of ubiquitinated proteins in generative and sperm cells. Sexual Plant Reproduction, 2002, 14, 325-329.	2.2	25

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37	Sperm dimorphism in Nicotiana tabacum L.. Sexual Plant Reproduction, 2001, 14, 123-125.	2.2	21
38	Calcium changes in ovules and embryo sacs of Plumbago zeylanica L.. Sexual Plant Reproduction, 2000, 13, 11-20.	2.2	22
39	Calcium Distribution and Accumulation in Ovules of Plumbago Zeylanica. Microscopy and Microanalysis, 2000, 6, 696-697.	0.4	0
40	Cytoskeletal and Nuclear Behavior during Female Gametophyte Development and Fertilization in Angiosperms. , 1999, , 89-97.		0
41	Localization of myosin on sperm-cell-associated membranes of tobacco (Nicotiana tabacum L.). Protoplasma, 1999, 208, 123-128.	2.1	11
42	Sperm cell surface characteristics of Plumbago zeylanica L. in relation to transport in the embryo sac. Planta, 1999, 208, 539-544.	3.2	25
43	Localization of the Ca2+-Binding Protein, Bra r 1, in Anthers and Pollen Tubes. Plant and Cell Physiology, 1999, 40, 1243-1252.	3.1	21
44	Culture-induced changes in osmolality of tobacco cell suspensions using four exogenous sugars. Plant Cell, Tissue and Organ Culture, 1998, 55, 9-13.	2.3	12
45	The fusion of sperm cells and the function of male germ unit (MGU) of tobacco (Nicotiana tabacum) Tj ETQq1 1 0.784314 rgBT /Over	2.2	20
46	Calcium distribution in fertile and sterile anthers of a photoperiod-sensitive genic male-sterile rice. Planta, 1998, 204, 183-192.	3.2	62
47	Isolation of the male germ unit: organization and function in tobacco (Nicotiana tabacum L.). Plant Cell Reports, 1998, 18, 143-147.	5.6	12
48	Isolation and collection of two populations of viable sperm cells from the pollen of Plumbago zeylanica. Zygote, 1998, 6, 295-298.	1.1	24
49	Immunofluorescent Localization of Myosin on the Sperm Cells of Plumbago Zeylanica. Microscopy and Microanalysis, 1997, 3, 183-184.	0.4	0
50	Freeze-fracture of sperm of Plumbago zeylanica L. in pollen and in vitro. Sexual Plant Reproduction, 1997, 10, 217-226.	2.2	11
51	Mechanical isolation and ultrastructural characterization of viable egg cells in Plumbago zeylanica. Sexual Plant Reproduction, 1997, 10, 368-373.	2.2	16
52	Calcium distribution in fertilized and unfertilized ovules and embryo sacs of Nicotiana tabacum L.. Planta, 1997, 202, 93-105.	3.2	69
53	Spray-freezing freeze substitution (SFFS) of cell suspensions for improved preservation of ultrastructure. , 1997, 38, 315-328.		17
54	Micromanipulation of male and female gametes of Nicotiana tabacum: II. Preliminary attempts for in vitro fertilization and egg cell culture. Plant Cell Reports, 1997, 16, 657-661.	5.6	3

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55	Attraction and transport of male gametes for fertilization. Sexual Plant Reproduction, 1996, 9, 337-342.	2.2	62
56	Microgametogenesis in Plumbago zeylanica (Plumbaginaceae). 1. Descriptive cytology and threeâ€dimensional organization. American Journal of Botany, 1996, 83, 1435-1453.	1.7	15
57	Isolation of viable sperm cells from tobacco (Nicotiana tabacum). Zygote, 1996, 4, 81-84.	1.1	9
58	Microgametogenesis in Plumbago zeylanica (Plumbaginaceae). 1. Descriptive Cytology and Three-Dimensional Organization. American Journal of Botany, 1996, 83, 1435.	1.7	12
59	Attraction and transport of male gametes for fertilization. Sexual Plant Reproduction, 1996, 9, 337-342.	2.2	3
60	Occurrence of Mitochondria in the Nuclei of Tobacco Sperm Cells. Plant Cell, 1994, 6, 1477.	6.6	9
61	Cytoskeletal organisation and modification during pollen tube arrival, gamete delivery and fertilisation inPlumbago zeylanica. Zygote, 1993, 1, 143-154.	1.1	44
62	The Egg Cell: Development and Role in Fertilization and Early Embryogenesis. Plant Cell, 1993, 5, 1349.	6.6	38
63	Double Fertilization. International Review of Cytology, 1992, 140, 357-388.	6.2	173
64	Plant Reproductive Biology: Trends. International Review of Cytology, 1992, 140, 565-592.	6.2	7
65	Female Germ Unit: Organization, Isolation, and Function. International Review of Cytology, 1992, , 233-293.	6.2	168
66	Rapid Communication. A Micro-sample critical point drying device for small SEM and TEM specimens. Journal of Electron Microscopy Technique, 1990, 14, 175-176.	1.1	1
67	ORGANIZATION OF ISOLATED EMBRYO SACS AND EGGS OF PLUMBAGO ZEYLANICA (PLUMBAGINACEAE) BEFORE AND AFTER FERTILIZATION. American Journal of Botany, 1990, 77, 1401-1410.	1.7	26
68	A Method for Improved Resolution for Fluorescence Microscopy Using Plastic-Embedded Material Subjected to Resin Extraction. Biotechnic & Histochemistry, 1990, 65, 259-261.	0.4	2
69	Organization of Isolated Embryo Sacs and Eggs of Plumbago zeylanica (Plumbaginaceae) Before and After Fertilization. American Journal of Botany, 1990, 77, 1401.	1.7	7
70	Isolation of Fixed and Viable Eggs, Central Cells, and Embryo Sacs from Ovules of Plumbago zeylanica. Plant Physiology, 1989, 90, 9-12.	4.8	68
71	Two-Dimensional Electrophoretic Studies of the Proteins and Polypeptides in Mature Pollen Grains and the Male Germ Unit of Plumbago zeylanica. Plant Physiology, 1988, 88, 764-769.	4.8	16
72	MEGAGAMETOPHYTE ORGANIZATION IN A POLYEMBRYONIC LINE OF LINUM USITATISSIMUM. American Journal of Botany, 1988, 75, 114-122.	1.7	10

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73	FERTILIZATION IN PLUMBAGELLA MICRANTHA. American Journal of Botany, 1988, 75, 778-781.	1.7	10
74	Megagametophyte Organization in a Polyembryonic Line of Linum usitatissimum. American Journal of Botany, 1988, 75, 114.	1.7	6
75	Fertilization in Plumbagella micrantha. American Journal of Botany, 1988, 75, 778.	1.7	7
76	Quantitative cytology of the sperm cells of Brassica campestris and B. oleracea. Planta, 1987, 170, 446-452.	3.2	54
77	Isolation of Sperm Cells from the Pollen of Plumbago zeylanica. Plant Physiology, 1986, 81, 317-319.	4.8	82
78	Scanning electron microscopic observations on deembedded biological tissue sections: Comparison of different fixatives and embedding materials. Journal of Electron Microscopy Technique, 1985, 2, 489-495.	1.1	38
79	Ultrastructure of the sperm of Plumbago zeylanica. Planta, 1984, 162, 385-391.	3.2	150
80	Gametic Fusion in Plumbago. BioScience, 1983, 33, 390-390.	4.9	0
81	FERTILIZATION IN PLUMBAGO ZEYLANICA: GAMETIC FUSION AND FATE OF THE MALE CYTOPLASM. American Journal of Botany, 1983, 70, 416-434.	1.7	55
82	Fertilization in Plumbago zeylanica: Gametic Fusion and Fate of the Male Cytoplasm. American Journal of Botany, 1983, 70, 416.	1.7	37
83	Fertilization in Plumbago zeylanica: entry and discharge of the pollen tube in the embryo sac. Canadian Journal of Botany, 1982, 60, 2219-2230.	1.1	56
84	Fine structure of megagametophyte development in Zea mays. Canadian Journal of Botany, 1979, 57, 1093-1110.	1.1	106