

Venkatesan Sundaresan

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96
papers

10,792
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54
h-index

103
g-index

168
ext. papers

12,832
ext. citations

11.5
avg, IF

6.1
L-index

#	Paper	IF	Citations
96	Structure, variation, and assembly of the root-associated microbiomes of rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E911-20	11.5	1206
95	Patterns of gene action in plant development revealed by enhancer trap and gene trap transposable elements. <i>Genes and Development</i> , 1995 , 9, 1797-810	12.6	569
94	Genetic and molecular identification of genes required for female gametophyte development and function in Arabidopsis. <i>Development (Cambridge)</i> , 2005 , 132, 603-14	6.6	414
93	The SPOROCTELESS gene of Arabidopsis is required for initiation of sporogenesis and encodes a novel nuclear protein. <i>Genes and Development</i> , 1999 , 13, 2108-17	12.6	382
92	VANGUARD1 encodes a pectin methylesterase that enhances pollen tube growth in the Arabidopsis style and transmitting tract. <i>Plant Cell</i> , 2005 , 17, 584-96	11.6	332
91	Computational prediction of miRNAs in Arabidopsis thaliana. <i>Genome Research</i> , 2005 , 15, 78-91	9.7	279
90	Arabidopsis CYCD3 D-type cyclins link cell proliferation and endocycles and are rate-limiting for cytokinin responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14537-42	11.5	262
89	Gene trap tagging of PROLIFERA, an essential MCM2-3-5-like gene in Arabidopsis. <i>Science</i> , 1995 , 268, 877-80	33.3	249
88	Analysis of flanking sequences from dissociation insertion lines: a database for reverse genetics in Arabidopsis. <i>Plant Cell</i> , 1999 , 11, 2263-70	11.6	246
87	Tapetum determinant1 is required for cell specialization in the Arabidopsis anther. <i>Plant Cell</i> , 2003 , 15, 2792-804	11.6	243
86	The indeterminate gene encodes a zinc finger protein and regulates a leaf-generated signal required for the transition to flowering in maize. <i>Cell</i> , 1998 , 93, 593-603	56.2	238
85	Clusters and superclusters of phased small RNAs in the developing inflorescence of rice. <i>Genome Research</i> , 2009 , 19, 1429-40	9.7	228
84	Auxin-dependent patterning and gamete specification in the Arabidopsis female gametophyte. <i>Science</i> , 2009 , 324, 1684-9	33.3	217
83	The Arabidopsis myc/bHLH gene ALCATRAZ enables cell separation in fruit dehiscence. <i>Current Biology</i> , 2001 , 11, 1914-22	6.3	216
82	Nonredundant regulation of rice arbuscular mycorrhizal symbiosis by two members of the phosphate transporter1 gene family. <i>Plant Cell</i> , 2012 , 24, 4236-51	11.6	214
81	Plant cyclins: a unified nomenclature for plant A-, B- and D-type cyclins based on sequence organization. <i>Plant Molecular Biology</i> , 1996 , 32, 1003-18	4.6	213
80	Directed transposon Tn5 mutagenesis and complementation analysis of Rhizobium meliloti symbiotic nitrogen fixation genes. <i>Cell</i> , 1982 , 29, 551-9	56.2	199

79	Isolation and characterization of cDNA clones encoding a functional p34cdc2 homologue from <i>Zea mays</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 3377-81	11.5	192
78	YABBY polarity genes mediate the repression of KNOX homeobox genes in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2002 , 14, 2761-70	11.6	186
77	Functional genomics in <i>Arabidopsis</i> : large-scale insertional mutagenesis complements the genome sequencing project. <i>Current Opinion in Biotechnology</i> , 2000 , 11, 157-61	11.4	186
76	Rice mutant resources for gene discovery. <i>Plant Molecular Biology</i> , 2004 , 54, 325-34	4.6	185
75	Cell-fate switch of synergid to egg cell in <i>Arabidopsis eostre</i> mutant embryo sacs arises from misexpression of the BEL1-like homeodomain gene BLH1. <i>Plant Cell</i> , 2007 , 19, 3578-92	11.6	184
74	Drought Stress Results in a Compartment-Specific Restructuring of the Rice Root-Associated Microbiomes. <i>MBio</i> , 2017 , 8,	7.8	181
73	Compositional shifts in root-associated bacterial and archaeal microbiota track the plant life cycle in field-grown rice. <i>PLoS Biology</i> , 2018 , 16, e2003862	9.7	166
72	Establishing an efficient Ac/Ds tagging system in rice: large-scale analysis of Ds flanking sequences. <i>Plant Journal</i> , 2004 , 37, 301-14	6.9	165
71	A <i>Rhizobium meliloti</i> symbiotic regulatory gene. <i>Cell</i> , 1984 , 36, 1035-43	56.2	157
70	A male-expressed rice embryogenic trigger redirected for asexual propagation through seeds. <i>Nature</i> , 2019 , 565, 91-95	50.4	157
69	SLOW WALKER1, essential for gametogenesis in <i>Arabidopsis</i> , encodes a WD40 protein involved in 18S ribosomal RNA biogenesis. <i>Plant Cell</i> , 2005 , 17, 2340-54	11.6	142
68	Control of axillary bud initiation and shoot architecture in <i>Arabidopsis</i> through the SUPERSHOOT gene. <i>Genes and Development</i> , 2001 , 15, 1577-88	12.6	140
67	Mutant resources in rice for functional genomics of the grasses. <i>Plant Physiology</i> , 2009 , 149, 165-70	6.6	138
66	Maternal control of male-gamete delivery in <i>Arabidopsis</i> involves a putative GPI-anchored protein encoded by the LORELEI gene. <i>Plant Cell</i> , 2008 , 20, 3038-49	11.6	137
65	Analysis of the female gametophyte transcriptome of <i>Arabidopsis</i> by comparative expression profiling. <i>Plant Physiology</i> , 2005 , 139, 1853-69	6.6	129
64	Clonal analysis of the <i>Arabidopsis</i> root confirms that position, not lineage, determines cell fate. <i>Planta</i> , 2000 , 211, 191-9	4.7	128
63	<i>Klebsiella pneumoniae</i> nifA product activates the <i>Rhizobium meliloti</i> nitrogenase promoter. <i>Nature</i> , 1983 , 301, 728-32	50.4	118
62	The half-size ABC transporters STR1 and STR2 are indispensable for mycorrhizal arbuscule formation in rice. <i>Plant Journal</i> , 2012 , 69, 906-20	6.9	104

61	Genetics of gametophyte biogenesis in Arabidopsis. <i>Current Opinion in Plant Biology</i> , 2000 , 3, 53-7	9.9	91
60	The NOMECA gene required for female gametophyte development encodes the putative APC6/CDC16 component of the Anaphase Promoting Complex in Arabidopsis. <i>Plant Journal</i> , 2003 , 36, 853-66	6.9	90
59	Cloning of four cyclins from maize indicates that higher plants have three structurally distinct groups of mitotic cyclins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 7375-9	11.5	90
58	Efficient insertional mutagenesis in rice using the maize En/Spm elements. <i>Plant Journal</i> , 2005 , 44, 879-929	9.9	87
57	Control of seed size in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 17887-8	11.5	84
56	The rapidly evolving centromere-specific histone has stringent functional requirements in Arabidopsis thaliana. <i>Genetics</i> , 2010 , 186, 461-71	4	80
55	Promoters regulated by the glnG (ntrC) and nifA gene products share a heptameric consensus sequence in the -15 region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1983 , 80, 2524-8	11.5	75
54	A collection of Ds insertional mutants associated with defects in male gametophyte development and function in Arabidopsis thaliana. <i>Genetics</i> , 2009 , 181, 1369-85	4	74
53	Activation of Klebsiella pneumoniae and Rhizobium meliloti nitrogenase promoters by gln (ntr) regulatory proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1983 , 80, 4030-4	11.5	73
52	Pattern formation in miniature: the female gametophyte of flowering plants. <i>Development (Cambridge)</i> , 2010 , 137, 179-89	6.6	72
51	Florigen: the molecular age: long-distance signals that cause plants to flower. <i>Trends in Biochemical Sciences</i> , 2000 , 25, 236-40	10.3	71
50	oiwa, a female gametophytic mutant impaired in a mitochondrial manganese-superoxide dismutase, reveals crucial roles for reactive oxygen species during embryo sac development and fertilization in Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 1573-91	11.6	70
49	Horizontal spread of transposon mutagenesis: new uses for old elements. <i>Trends in Plant Science</i> , 1996 , 1, 184-190	13.1	70
48	Transcriptomes of isolated Oryza sativa gametes characterized by deep sequencing: evidence for distinct sex-dependent chromatin and epigenetic states before fertilization. <i>Plant Journal</i> , 2013 , 76, 729-41	6.9	68
47	A haploid genetics toolbox for Arabidopsis thaliana. <i>Nature Communications</i> , 2014 , 5, 5334	17.4	67
46	An extrachromosomal form of the Mu transposons of maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 4924-8	11.5	61
45	A recombination hotspot in the maize A1 intragenic region. <i>Theoretical and Applied Genetics</i> , 1991 , 81, 185-8	6	59
44	Functional analysis of the tandem-duplicated P450 genes SPS/BUS/CYP79F1 and CYP79F2 in glucosinolate biosynthesis and plant development by Ds transposition-generated double mutants. <i>Plant Physiology</i> , 2004 , 135, 840-8	6.6	57

43	Transposons as tools for functional genomics. <i>Plant Physiology and Biochemistry</i> , 2001 , 39, 243-252	5.4	56
42	A versatile transposon-based activation tag vector system for functional genomics in cereals and other monocot plants. <i>Plant Physiology</i> , 2008 , 146, 189-99	6.6	52
41	Development of flowering plant gametophytes. <i>Current Topics in Developmental Biology</i> , 2010 , 91, 379-413	4.3	51
40	Auxin Import and Local Auxin Biosynthesis Are Required for Mitotic Divisions, Cell Expansion and Cell Specification during Female Gametophyte Development in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2015 , 10, e0126164	3.7	49
39	SLOW WALKER2, a NOC1/MAK21 homologue, is essential for coordinated cell cycle progression during female gametophyte development in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009 , 151, 1486-97	6.6	47
38	Somatic excision of the Mu1 transposable element of maize. <i>Nucleic Acids Research</i> , 1991 , 19, 579-84	20.1	47
37	The Zygotic Transition Is Initiated in Unicellular Plant Zygotes with Asymmetric Activation of Parental Genomes. <i>Developmental Cell</i> , 2017 , 43, 349-358.e4	10.2	44
36	The polycomb group gene EMF2B is essential for maintenance of floral meristem determinacy in rice. <i>Plant Journal</i> , 2014 , 80, 883-94	6.9	42
35	Production of a high-efficiency TILLING population through polyploidization. <i>Plant Physiology</i> , 2013 , 161, 1604-14	6.6	40
34	The TORMOZ gene encodes a nucleolar protein required for regulated division planes and embryo development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2007 , 19, 2246-63	11.6	38
33	The CKI1 Histidine Kinase Specifies the Female Gametic Precursor of the Endosperm. <i>Developmental Cell</i> , 2016 , 37, 34-46	10.2	37
32	<i>Arabidopsis</i> GLAUCE promotes fertilization-independent endosperm development and expression of paternally inherited alleles. <i>Development (Cambridge)</i> , 2007 , 134, 4107-17	6.6	35
31	Pollen tube entry into the synergid cell of <i>Arabidopsis</i> is observed at a site distinct from the filiform apparatus. <i>Plant Reproduction</i> , 2013 , 26, 93-9	3.9	31
30	Soil domestication by rice cultivation results in plant-soil feedback through shifts in soil microbiota. <i>Genome Biology</i> , 2019 , 20, 221	18.3	28
29	Antipodal cells persist through fertilization in the female gametophyte of <i>Arabidopsis</i> . <i>Plant Reproduction</i> , 2014 , 27, 197-203	3.9	28
28	An inducible targeted tagging system for localized saturation mutagenesis in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2005 , 137, 3-12	6.6	28
27	ARF2-ARF4 and ARF5 are Essential for Female and Male Gametophyte Development in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2018 , 59, 179-189	4.9	25
26	Prolonged drought imparts lasting compositional changes to the rice root microbiome. <i>Nature Plants</i> , 2021 , 7, 1065-1077	11.5	22

25	AHP2, AHP3, and AHP5 act downstream of CK11 in Arabidopsis female gametophyte development. <i>Journal of Experimental Botany</i> , 2017 , 68, 3365-3373	7	20
24	Molecular characterization of the glauce mutant: a central cell-specific function is required for double fertilization in Arabidopsis. <i>Plant Cell</i> , 2012 , 24, 3264-77	11.6	20
23	Molecular cloning of ABNORMAL FLORAL ORGANS: a gene required for flower development in Arabidopsis. <i>Sexual Plant Reproduction</i> , 1999 , 12, 118-122		20
22	Binding sites for maize nuclear proteins in the terminal inverted repeats of the Mu1 transposable element. <i>Molecular Genetics and Genomics</i> , 1991 , 229, 17-26		19
21	Comparative Analysis of Root Microbiomes of Rice Cultivars with High and Low Methane Emissions Reveals Differences in Abundance of Methanogenic Archaea and Putative Upstream Fermenters. <i>MSystems</i> , 2020 , 5,	7.6	17
20	The Armadillo repeat gene ZAK IXIK promotes Arabidopsis early embryo and endosperm development through a distinctive gametophytic maternal effect. <i>Plant Cell</i> , 2012 , 24, 4026-43	11.6	15
19	Analysis of splice donor and acceptor site function in a transposable gene trap derived from the maize element Activator. <i>Molecular Genetics and Genomics</i> , 1995 , 249, 91-101		15
18	Genome-wide redistribution of 24-nt siRNAs in rice gametes. <i>Genome Research</i> , 2020 , 30, 173-184	9.7	12
17	Transposon Insertional Mutants: A Resource for Rice Functional Genomics 2007 , 223-271		11
16	Bioactive diterpenoids impact the composition of the root-associated microbiome in maize (<i>Zea mays</i>). <i>Scientific Reports</i> , 2021 , 11, 333	4.9	11
15	Reproductive Long Intergenic Noncoding RNAs Exhibit Male Gamete Specificity and Polycomb Repressive Complex 2-Mediated Repression. <i>Plant Physiology</i> , 2018 , 177, 1198-1217	6.6	10
14	Extraction and 16S rRNA Sequence Analysis of Microbiomes Associated with Rice Roots. <i>Bio-protocol</i> , 2018 , 8, e2884	0.9	10
13	Recent advances in understanding female gametophyte development. <i>F1000Research</i> , 2018 , 7,	3.6	10
12	The gymnosperm ortholog of the angiosperm central cell-specification gene CK11 provides an essential clue to endosperm origin. <i>New Phytologist</i> , 2018 , 218, 1685-1696	9.8	8
11	A weed reaches new heights down under. <i>Plant Cell</i> , 1999 , 11, 1817-26	11.6	8
10	Plant zygote development: recent insights and applications to clonal seeds. <i>Current Opinion in Plant Biology</i> , 2021 , 59, 101993	9.9	6
9	Mutant Resources for Functional Analysis of the Rice Genome 2013 , 81-115		6
8	Step-by-step protocols for rice gamete isolation. <i>Plant Reproduction</i> , 2019 , 32, 5-13	3.9	5

- 7 Spore formation in plants: sporocyteless and more. *Cell Research*, **2015**, 25, 7-8 24.7 5
- 6 Control of the transition to flowering. *Current Opinion in Biotechnology*, **1996**, 7, 145-149 11.4 4
- 5 Rice embryogenic trigger BABY BOOM1 promotes somatic embryogenesis by upregulation of auxin biosynthesis genes 4
- 4 Coordinated Activation of ARF1 GTPases by ARF-GEF GNOM Dimers Is Essential for Vesicle Trafficking in Arabidopsis. *Plant Cell*, **2020**, 32, 2491-2507 11.6 3
- 3 Isolation of Rice Sperm Cells for Transcriptional Profiling. *Methods in Molecular Biology*, **2017**, 1669, 211-219 1
- 2 DEFECTIVE EMBRYO AND MERISTEMS genes are required for cell division and gamete viability in Arabidopsis. *PLoS Genetics*, **2021**, 17, e1009561 6 0
- 1 MicroRNAs: Tiny genetic switches in our genome **2017**, 22, 163-176