

# Venkatesan Sundaresan

## List of Publications by Year in descending order

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98  
papers

14,255  
citations

27035

58  
h-index

43601

95  
g-index

168  
all docs

168  
docs citations

168  
times ranked

13942  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resetting of the 24-nt siRNA landscape in rice zygotes. <i>Genome Research</i> , 2022, 32, 309-323.	2.4	13
2	Acquisition of a complex root microbiome reshapes the transcriptomes of rice plants. <i>New Phytologist</i> , 2022, 235, 2008-2021.	3.5	8
3	Bioactive diterpenoids impact the composition of the root-associated microbiome in maize ( <i>Zea mays</i> ). <i>Scientific Reports</i> , 2021, 11, 333.	1.6	36
4	Plant zygote development: recent insights and applications to clonal seeds. <i>Current Opinion in Plant Biology</i> , 2021, 59, 101993.	3.5	22
5	DEFECTIVE EMBRYO AND MERISTEMS genes are required for cell division and gamete viability in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2021, 17, e1009561.	1.5	3
6	Prolonged drought imparts lasting compositional changes to the rice root microbiome. <i>Nature Plants</i> , 2021, 7, 1065-1077.	4.7	111
7	Genome-wide redistribution of 24-nt siRNAs in rice gametes. <i>Genome Research</i> , 2020, 30, 173-184.	2.4	32
8	Coordinated Activation of ARF1 GTPases by ARF-GEF GNOM Dimers Is Essential for Vesicle Trafficking in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 2491-2507.	3.1	17
9	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, .	1.7	29
10	Soil domestication by rice cultivation results in plant-soil feedback through shifts in soil microbiota. <i>Genome Biology</i> , 2019, 20, 221.	3.8	54
11	Step-by-step protocols for rice gamete isolation. <i>Plant Reproduction</i> , 2019, 32, 5-13.	1.3	15
12	A male-expressed rice embryogenic trigger redirected for asexual propagation through seeds. <i>Nature</i> , 2019, 565, 91-95.	13.7	324
13	The gymnosperm ortholog of the angiosperm central cell specification gene <i>CK11</i> provides an essential clue to endosperm origin. <i>New Phytologist</i> , 2018, 218, 1685-1696.	3.5	13
14	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.	1.5	55
15	Recent advances in understanding female gametophyte development. <i>F1000Research</i> , 2018, 7, 804.	0.8	21
16	Reproductive Long Intergenic Noncoding RNAs Exhibit Male Gamete Specificity and Polycomb Repressive Complex 2-Mediated Repression. <i>Plant Physiology</i> , 2018, 177, 1198-1217.	2.3	14
17	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.	2.6	340
18	Extraction and 16S rRNA Sequence Analysis of Microbiomes Associated with Rice Roots. <i>Bio-protocol</i> , 2018, 8, e2884.	0.2	25

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19	Isolation of Rice Sperm Cells for Transcriptional Profiling. <i>Methods in Molecular Biology</i> , 2017, 1669, 211-219.	0.4	3
20	Drought Stress Results in a Compartment-Specific Restructuring of the Rice Root-Associated Microbiomes. <i>MBio</i> , 2017, 8, .	1.8	336
21	The Zygotic Transition Is Initiated in Unicellular Plant Zygotes with Asymmetric Activation of Parental Genomes. <i>Developmental Cell</i> , 2017, 43, 349-358.e4.	3.1	83
22	MicroRNAs: Tiny genetic switches in our genome. <i>Resonance</i> , 2017, 22, 163-176.	0.2	0
23	AHP2, AHP3, and AHP5 act downstream of CK11 in Arabidopsis female gametophyte development. <i>Journal of Experimental Botany</i> , 2017, 68, 3365-3373.	2.4	29
24	The CK11 Histidine Kinase Specifies the Female Gametic Precursor of the Endosperm. <i>Developmental Cell</i> , 2016, 37, 34-46.	3.1	54
25	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.	3.3	2,016
26	Spore formation in plants: SPOROCTELESS and more. <i>Cell Research</i> , 2015, 25, 7-8.	5.7	7
27	Auxin Import and Local Auxin Biosynthesis Are Required for Mitotic Divisions, Cell Expansion and Cell Specification during Female Gametophyte Development in Arabidopsis thaliana. <i>PLoS ONE</i> , 2015, 10, e0126164.	1.1	80
28	Antipodal cells persist through fertilization in the female gametophyte of Arabidopsis. <i>Plant Reproduction</i> , 2014, 27, 197-203.	1.3	29
29	A haploid genetics toolbox for Arabidopsis thaliana. <i>Nature Communications</i> , 2014, 5, 5334.	5.8	100
30	The polycomb group gene <i>EMF2B</i> is essential for maintenance of floral meristem determinacy in rice. <i>Plant Journal</i> , 2014, 80, 883-894.	2.8	53
31	Pollen tube entry into the synergid cell of Arabidopsis is observed at a site distinct from the filiform apparatus. <i>Plant Reproduction</i> , 2013, 26, 93-99.	1.3	35
32	Transcriptomes of isolated <i>Oryza sativa</i> gametes characterized by deep sequencing: evidence for distinct sex-dependent chromatin and epigenetic states before fertilization. <i>Plant Journal</i> , 2013, 76, 729-741.	2.8	89
33	Production of a High-Efficiency TILLING Population through Polyploidization. <i>Plant Physiology</i> , 2013, 161, 1604-1614.	2.3	48
34	<i>oiwa</i> , 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, 1573-1591.	3.1	96
35	Mutant Resources for Functional Analysis of the Rice Genome. , 2013, , 81-115.		6
36	The Armadillo Repeat Gene <i>ZAK IXIK</i> Promotes Arabidopsis Early Embryo and Endosperm Development through a Distinctive Gametophytic Maternal Effect. <i>Plant Cell</i> , 2012, 24, 4026-4043.	3.1	19

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37	Molecular Characterization of the <i>glauce</i> Mutant: A Central Cell-Specific Function Is Required for Double Fertilization in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 3264-3277.	3.1	25
38	Nonredundant Regulation of Rice Arbuscular Mycorrhizal Symbiosis by Two Members of the <i>PHOSPHATE TRANSPORTER1</i> Gene Family. <i>Plant Cell</i> , 2012, 24, 4236-4251.	3.1	306
39	The half-size ABC transporters STR1 and STR2 are indispensable for mycorrhizal arbuscule formation in rice. <i>Plant Journal</i> , 2012, 69, 906-920.	2.8	131
40	The Rapidly Evolving Centromere-Specific Histone Has Stringent Functional Requirements in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2010, 186, 461-471.	1.2	101
41	Development of Flowering Plant Gametophytes. <i>Current Topics in Developmental Biology</i> , 2010, 91, 379-412.	1.0	73
42	Pattern formation in miniature: the female gametophyte of flowering plants. <i>Development (Cambridge)</i> , 2010, 137, 179-189.	1.2	88
43	Clusters and superclusters of phased small RNAs in the developing inflorescence of rice. <i>Genome Research</i> , 2009, 19, 1429-1440.	2.4	283
44	A Collection of <i>Ds</i> Insertional Mutants Associated With Defects in Male Gametophyte Development and Function in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2009, 181, 1369-1385.	1.2	84
45	Mutant Resources in Rice for Functional Genomics of the Grasses. <i>Plant Physiology</i> , 2009, 149, 165-170.	2.3	167
46	<i>SLOW WALKER2</i> , 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, 1486-1497.	2.3	59
47	Auxin-Dependent Patterning and Gamete Specification in the <i>Arabidopsis</i> Female Gametophyte. <i>Science</i> , 2009, 324, 1684-1689.	6.0	252
48	The RNA world is alive and well. <i>Trends in Plant Science</i> , 2008, 13, 311-313.	4.3	14
49	A Versatile Transposon-Based Activation Tag Vector System for Functional Genomics in Cereals and Other Monocot Plants. <i>Plant Physiology</i> , 2008, 146, 189-199.	2.3	64
50	Maternal Control of Male-Gamete Delivery in <i>Arabidopsis</i> Involves a Putative GPI-Anchored Protein Encoded by the <i>LORELEI</i> Gene. <i>Plant Cell</i> , 2008, 20, 3038-3049.	3.1	166
51	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 <i>BLH1</i> . <i>Plant Cell</i> , 2007, 19, 3578-3592.	3.1	242
52	The <i>TORMOZ</i> Gene Encodes a Nucleolar Protein Required for Regulated Division Planes and Embryo Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2007, 19, 2246-2263.	3.1	47
53	Transposon Insertional Mutants: A Resource for Rice Functional Genomics. , 2007, , 223-271.		12
54	<i>Arabidopsis GLAUCE</i> promotes fertilization-independent endosperm development and expression of paternally inherited alleles. <i>Development (Cambridge)</i> , 2007, 134, 4107-4117.	1.2	39

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55	<i>Arabidopsis</i> 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, 14537-14542.	3.3	333
56	Efficient insertional mutagenesis in rice using the maize En/Spm elements. <i>Plant Journal</i> , 2005, 44, 879-892.	2.8	100
57	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, 2340-2354.	3.1	163
58	An Inducible Targeted Tagging System for Localized Saturation Mutagenesis in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2005, 137, 3-12.	2.3	30
59	VANGUARD1 Encodes a Pectin Methyltransferase That Enhances Pollen Tube Growth in the <i>Arabidopsis</i> Style and Transmitting Tract. <i>Plant Cell</i> , 2005, 17, 584-596.	3.1	386
60	Analysis of the Female Gametophyte Transcriptome of <i>Arabidopsis</i> by Comparative Expression Profiling. <i>Plant Physiology</i> , 2005, 139, 1853-1869.	2.3	150
61	Computational prediction of miRNAs in <i>Arabidopsis thaliana</i> . <i>Genome Research</i> , 2005, 15, 78-91.	2.4	324
62	Genetic and molecular identification of genes required for female gametophyte development and function in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2005, 132, 603-614.	1.2	538
63	Control of seed size in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17887-17888.	3.3	104
64	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, 840-848.	2.3	70
65	Rice Mutant Resources for Gene Discovery. <i>Plant Molecular Biology</i> , 2004, 54, 325-334.	2.0	221
66	Establishing an efficient <i>Ac/Ds</i> tagging system in rice: large-scale analysis of <i>Ds</i> flanking sequences. <i>Plant Journal</i> , 2004, 37, 301-314.	2.8	192
67	The NOMEAGene required for female gametophyte development encodes the putative APC6/CDC16 component of the Anaphase Promoting Complex in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2003, 36, 853-866.	2.8	98
68	TAPETUM DETERMINANT1 Is Required for Cell Specialization in the <i>Arabidopsis</i> Anther. <i>Plant Cell</i> , 2003, 15, 2792-2804.	3.1	305
69	YABBY Polarity Genes Mediate the Repression of KNOX Homeobox Genes in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2002, 14, 2761-2770.	3.1	229
70	Transposons as tools for functional genomics. <i>Plant Physiology and Biochemistry</i> , 2001, 39, 243-252.	2.8	62
71	The <i>Arabidopsis</i> myc/bHLH gene ALCATRAZ enables cell separation in fruit dehiscence. <i>Current Biology</i> , 2001, 11, 1914-1922.	1.8	274
72	Control of axillary bud initiation and shoot architecture in <i>Arabidopsis</i> through the SUPERSHOOT gene. <i>Genes and Development</i> , 2001, 15, 1577-1588.	2.7	169

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73	Functional genomics in Arabidopsis: large-scale insertional mutagenesis complements the genome sequencing project. <i>Current Opinion in Biotechnology</i> , 2000, 11, 157-161.	3.3	207
74	Genetics of gametophyte biogenesis in Arabidopsis. <i>Current Opinion in Plant Biology</i> , 2000, 3, 53-57.	3.5	102
75	â€˜Florigenâ€™ enters the molecular age: long-distance signals that cause plants to flower. <i>Trends in Biochemical Sciences</i> , 2000, 25, 236-240.	3.7	82
76	Clonal analysis of the Arabidopsis root confirms that position, not lineage, determines cell fate. <i>Planta</i> , 2000, 211, 191-199.	1.6	145
77	A Weed Reaches New Heights Down Under. <i>Plant Cell</i> , 1999, 11, 1817-1826.	3.1	14
78	Analysis of Flanking Sequences from Dissociation Insertion Lines: A Database for Reverse Genetics in Arabidopsis. <i>Plant Cell</i> , 1999, 11, 2263-2270.	3.1	287
79	Molecular cloning of ABNORMAL FLORAL ORGANS : a gene required for flower development in Arabidopsis. <i>Sexual Plant Reproduction</i> , 1999, 12, 118-122.	2.2	34
80	The SPOROCTELESS gene of Arabidopsis is required for initiation of sporogenesis and encodes a novel nuclear protein. <i>Genes and Development</i> , 1999, 13, 2108-2117.	2.7	456
81	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.	13.5	293
82	Horizontal spread of transposon mutagenesis: new uses for old elements. <i>Trends in Plant Science</i> , 1996, 1, 184-190.	4.3	79
83	Control of the transition to flowering. <i>Current Opinion in Biotechnology</i> , 1996, 7, 145-149.	3.3	6
84	Plant cyclins: a unified nomenclature for plant A-, B- and D-type cyclins based on sequence organization. <i>Plant Molecular Biology</i> , 1996, 32, 1003-1018.	2.0	232
85	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.	2.4	16
86	Patterns of gene action in plant development revealed by enhancer trap and gene trap transposable elements.. <i>Genes and Development</i> , 1995, 9, 1797-1810.	2.7	671
87	Gene trap tagging of PROLIFERA, an essential MCM2-3-5-like gene in Arabidopsis. <i>Science</i> , 1995, 268, 877-880.	6.0	266
88	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, 7375-7379.	3.3	100
89	Somatic excision of the Mu1 transposable element of maize. <i>Nucleic Acids Research</i> , 1991, 19, 579-584.	6.5	67
90	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.	2.4	27

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91	A recombination hotspot in the maize A1 intragenic region. <i>Theoretical and Applied Genetics</i> , 1991, 81, 185-188.	1.8	64
92	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, 3377-3381.	3.3	210
93	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, 4924-4928.	3.3	73
94	A <i>Rhizobium meliloti</i> symbiotic regulatory gene. <i>Cell</i> , 1984, 36, 1035-1043.	13.5	174
95	<i>Klebsiella pneumoniae</i> nifA product activates the <i>Rhizobium meliloti</i> nitrogenase promoter. <i>Nature</i> , 1983, 301, 728-732.	13.7	130
96	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, 2524-2528.	3.3	84
97	Activation of <i>Klebsiella pneumoniae</i> and <i>Rhizobium meliloti</i> nitrogenase promoters by gln (ntr) regulatory proteins.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1983, 80, 4030-4034.	3.3	79
98	Directed transposon Tn5 mutagenesis and complementation analysis of <i>rhizobium meliloti</i> symbiotic nitrogen fixation genes. <i>Cell</i> , 1982, 29, 551-559.	13.5	228