

# Madan K Bhattacharyya

## List of Publications by Year in descending order

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53  
papers

5,529  
citations

293460

24  
h-index

223390

49  
g-index

58  
all docs

58  
docs citations

58  
times ranked

6993  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phylogenomic Analysis of a 55.1-kb 19-Gene Dataset Resolves a Monophyletic <i>Fusarium</i> that Includes the <i>Fusarium solani</i> Species Complex. <i>Phytopathology</i> , 2021, 111, 1064-1079.	1.1	107
2	Overexpression of a plasma membrane protein generated broad-spectrum immunity in soybean. <i>Plant Biotechnology Journal</i> , 2021, 19, 502-516.	4.1	13
3	A Robust and Rapid Candidate Gene Mapping Pipeline Based on M2 Populations. <i>Frontiers in Plant Science</i> , 2021, 12, 681816.	1.7	6
4	Arabidopsis non-host resistance <i>PSS30</i> gene enhances broad-spectrum disease resistance in the soybean cultivar Williams 82. <i>Plant Journal</i> , 2021, 107, 1432-1446.	2.8	8
5	Tightly linked <i>Rps12</i> and <i>Rps13</i> genes provide broad-spectrum <i>Phytophthora</i> resistance in soybean. <i>Scientific Reports</i> , 2021, 11, 16907.	1.6	11
6	Interaction of <i>Phytophthora sojae</i> Effector <i>Avr1b</i> With E3 Ubiquitin Ligase <i>GmPUB1</i> Is Required for Recognition by Soybeans Carrying <i>Phytophthora</i> Resistance <i>Rps1-b</i> and <i>Rps1-k</i> Genes. <i>Frontiers in Plant Science</i> , 2021, 12, 725571.	1.7	10
7	Genome wide association study identifies novel single nucleotide polymorphic loci and candidate genes involved in soybean sudden death syndrome resistance. <i>PLoS ONE</i> , 2019, 14, e0212071.	1.1	11
8	Mapping of new quantitative trait loci for sudden death syndrome and soybean cyst nematode resistance in two soybean populations. <i>Theoretical and Applied Genetics</i> , 2018, 131, 1047-1062.	1.8	13
9	Arabidopsis Novel Glycine-Rich Plasma Membrane <i>PSS1</i> Protein Enhances Disease Resistance in Transgenic Soybean Plants. <i>Plant Physiology</i> , 2018, 176, 865-878.	2.3	17
10	Microfluidic device enabled quantitative time-lapse microscopic-photography for phenotyping vegetative and reproductive phases in <i>Fusarium virguliforme</i> , which is pathogenic to soybean. <i>Scientific Reports</i> , 2017, 7, 44365.	1.6	12
11	Transposon-Based Functional Characterization of Soybean Genes. <i>Compendium of Plant Genomes</i> , 2017, , 183-192.	0.3	0
12	A Novel <i>Phytophthora sojae</i> Resistance <i>Rps12</i> Gene Mapped to a Genomic Region That Contains Several <i>Rps</i> Genes. <i>PLoS ONE</i> , 2017, 12, e0169950.	1.1	68
13	Investigation of the <i>Fusarium virguliforme</i> Transcriptomes Induced during Infection of Soybean Roots Suggests that Enzymes with Hydrolytic Activities Could Play a Major Role in Root Necrosis. <i>PLoS ONE</i> , 2017, 12, e0169963.	1.1	11
14	The endogenous transposable element <i>Tgm9</i> is suitable for generating knockout mutants for functional analyses of soybean genes and genetic improvement in soybean. <i>PLoS ONE</i> , 2017, 12, e0180732.	1.1	7
15	Identification of Highly Variable Supernumerary Chromosome Segments in an Asexual Pathogen. <i>PLoS ONE</i> , 2016, 11, e0158183.	1.1	12
16	Novel Sources of Partial Resistance against <i>Phytophthora sojae</i> in Soybean PI 399036. <i>Crop Science</i> , 2016, 56, 2322-2335.	0.8	23
17	Humidity assay for studying plant-pathogen interactions in miniature controlled discrete humidity environments with good throughput. <i>Biomicrofluidics</i> , 2016, 10, 034108.	1.2	10
18	Identification of a soybean rust resistance gene in PI 567104B. <i>Theoretical and Applied Genetics</i> , 2016, 129, 863-877.	1.8	13

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19	The plant immunity inducer pipecolic acid accumulates in the xylem sap and leaves of soybean seedlings following <i>Fusarium virguliforme</i> infection. <i>Plant Science</i> , 2016, 243, 105-114.	1.7	27
20	Study of the Interactions of <i>Fusarium virguliforme</i> Toxin FvTox1 with Synthetic Peptides by Molecular Simulations and a Label-Free Biosensor. <i>Analytical Chemistry</i> , 2016, 88, 3024-3030.	3.2	8
21	Quantitative trait loci underlying host responses of soybean to <i>Fusarium virguliforme</i> toxins that cause foliar sudden death syndrome. <i>Theoretical and Applied Genetics</i> , 2016, 129, 495-506.	1.8	25
22	Transposon Tagging of a Male-Sterility, Female-Sterility Gene, St8, Revealed that the Meiotic MER3 DNA Helicase Activity Is Essential for Fertility in Soybean. <i>PLoS ONE</i> , 2016, 11, e0150482.	1.1	8
23	Transcriptomic Study of the Soybean- <i>Fusarium virguliforme</i> Interaction Revealed a Novel Ankyrin-Repeat Containing Defense Gene, Expression of Whose during Infection Led to Enhanced Resistance to the Fungal Pathogen in Transgenic Soybean Plants. <i>PLoS ONE</i> , 2016, 11, e0163106.	1.1	22
24	Identification of <i>Fusarium virguliforme</i> FvTox1-Interacting Synthetic Peptides for Enhancing Foliar Sudden Death Syndrome Resistance in Soybean. <i>PLoS ONE</i> , 2015, 10, e0145156.	1.1	7
25	Analyses of the Xylem Sap Proteomes Identified Candidate <i>Fusarium virguliforme</i> Proteinacious Toxins. <i>PLoS ONE</i> , 2014, 9, e93667.	1.1	31
26	Genetic architecture and evolution of the mating type locus in fusaria that cause soybean sudden death syndrome and bean root rot. <i>Mycologia</i> , 2014, 106, 686-697.	0.8	30
27	The Genome Sequence of the Fungal Pathogen <i>Fusarium virguliforme</i> That Causes Sudden Death Syndrome in Soybean. <i>PLoS ONE</i> , 2014, 9, e81832.	1.1	50
28	Investigation of the <i>Fusarium virguliforme</i> fvtox1 mutants revealed that the FvTox1 toxin is involved in foliar sudden death syndrome development in soybean. <i>Current Genetics</i> , 2013, 59, 107-117.	0.8	44
29	A candidate male-fertility female-fertility gene tagged by the soybean endogenous transposon, Tgm9. <i>Functional and Integrative Genomics</i> , 2013, 13, 67-73.	1.4	13
30	Molecular Mapping of D1, D2 and ms5 Revealed Linkage between the Cotyledon Color Locus D2 and the Male-Sterile Locus ms5 in Soybean. <i>Plants</i> , 2013, 2, 441-454.	1.6	10
31	Expression of a Single-Chain Variable-Fragment Antibody Against a <i>Fusarium virguliforme</i> Toxin Peptide Enhances Tolerance to Sudden Death Syndrome in Transgenic Soybean Plants. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 817-824.	1.4	41
32	Segregation distortion in a region containing a male-sterility, female-sterility locus in soybean. <i>Plant Science</i> , 2012, 195, 151-156.	1.7	25
33	Arabidopsis nonhost resistance gene PSS1 confers immunity against an oomycete and a fungal pathogen but not a bacterial pathogen that cause diseases in soybean. <i>BMC Plant Biology</i> , 2012, 12, 87.	1.6	25
34	Sequence based polymorphic (SBP) marker technology for targeted genomic regions: its application in generating a molecular map of the <i>Arabidopsis thaliana</i> genome. <i>BMC Genomics</i> , 2012, 13, 20.	1.2	20
35	The <i>Fusarium virguliforme</i> Toxin FvTox1 Causes Foliar Sudden Death Syndrome-Like Symptoms in Soybean. <i>Molecular Plant-Microbe Interactions</i> , 2011, 24, 1179-1188.	1.4	66
36	Plant pathogen spores grow in microfluidic droplets: A high-throughput approach to antifungal drug screening. , 2011, , .		0

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37	Genome sequence of the palaeopolyploid soybean. <i>Nature</i> , 2010, 463, 178-183.	13.7	3,854
38	Excision of an Active CACTA-Like Transposable Element From DFR2 Causes Variegated Flowers in Soybean [ <i>Glycine max</i> (L.) Merr.]. <i>Genetics</i> , 2010, 184, 53-63.	1.2	42
39	Map-based Cloning of Genes and QTLs in Soybean. , 2010, , 169-186.		2
40	Systemic acquired resistance in soybean is regulated by two proteins, Orthologous to Arabidopsis NPR1. <i>BMC Plant Biology</i> , 2009, 9, 105.	1.6	68
41	Identification of candidate signaling genes including regulators of chromosome condensation 1 protein family differentially expressed in the soybean- <i>Phytophthora sojae</i> interaction. <i>Theoretical and Applied Genetics</i> , 2009, 118, 399-412.	1.8	13
42	Expression and evolution of the phosphoinositide-specific phospholipase C gene family in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2008, 46, 627-637.	2.8	106
43	The soybean- <i>Phytophthora</i> resistance locus Rps1-k encompasses coiled coil-nucleotide binding-leucine rich repeat-like genes and repetitive sequences. <i>BMC Plant Biology</i> , 2008, 8, 29.	1.6	100
44	Enhanced Oleic Acid Content in the Soybean Mutant M23 Is Associated with the Deletion in the Fad2-1a Gene Encoding a Fatty Acid Desaturase. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2007, 84, 229-235.	0.8	39
45	Two Classes of Highly Similar Coiled Coil-Nucleotide Binding-Leucine Rich Repeat Genes Isolated from the Rps1-k Locus Encode <i>Phytophthora</i> Resistance in Soybean. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 1035-1045.	1.4	133
46	Deletion of a Disease Resistance Nucleotide-Binding-Site Leucine-Rich- Repeat-like Sequence Is Associated With the Loss of the <i>Phytophthora</i> Resistance Gene Rps4 in Soybean. <i>Genetics</i> , 2004, 168, 2157-2167.	1.2	98
47	Construction and characterization of a soybean yeast artificial chromosome library and identification of clones for the Rps6 region. <i>Functional and Integrative Genomics</i> , 2003, 3, 153-159.	1.4	7
48	Genetic and Physical Mapping of Avr1a in <i>Phytophthora sojae</i> . <i>Genetics</i> , 2002, 160, 949-959.	1.2	47
49	The Matrix Metalloproteinase Gene GmMMP2 Is Activated in Response to Pathogenic Infections in Soybean. <i>Plant Physiology</i> , 2001, 127, 1788-1797.	2.3	70
50	Towards Understanding the Recognition and Signal Transduction Processes in the Soybean- <i>Phytophthora Sojae</i> Interaction. , 2001, , 227-239.		1
51	High Resolution Genetic and Physical Mapping of Molecular Markers Linked to the <i>Phytophthora</i> Resistance Gene Rps1-k in Soybean. <i>Molecular Plant-Microbe Interactions</i> , 1997, 10, 1035-1044.	1.4	63
52	A copia-like retrotransposon Tgmr closely linked to the Rps1-k allele that confers race-specific resistance of soybean to <i>Phytophthora sojae</i> . <i>Plant Molecular Biology</i> , 1997, 34, 255-264.	2.0	30
53	Reduced variation in transgene expression from a binary vector with selectable markers at the right and left T-DNA borders. <i>Plant Journal</i> , 1994, 6, 957-968.	2.8	51