

Yuichiro Watanabe

List of Publications by Year in descending order

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papers

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97
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123
all docs

123
docs citations

123
times ranked

9327
citing authors

#	ARTICLE	IF	CITATIONS
1	Criteria for Annotation of Plant MicroRNAs. <i>Plant Cell</i> , 2008, 20, 3186-3190.	3.1	1,158
2	Insights into Land Plant Evolution Garnered from the <i>Marchantia polymorpha</i> Genome. <i>Cell</i> , 2017, 171, 287-304.e15.	13.5	973
3	From The Cover: Arabidopsis micro-RNA biogenesis through Dicer-like 1 protein functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12753-12758.	3.3	889
4	Improved Gateway Binary Vectors: High-Performance Vectors for Creation of Fusion Constructs in Transgenic Analysis of Plants. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 2095-2100.	0.6	847
5	The Mechanism Selecting the Guide Strand from Small RNA Duplexes is Different Among Argonaute Proteins. <i>Plant and Cell Physiology</i> , 2008, 49, 493-500.	1.5	464
6	The interaction between DCL1 and HYL1 is important for efficient and precise processing of pri-miRNA in plant microRNA biogenesis. <i>Rna</i> , 2005, 12, 206-212.	1.6	413
7	Tobacco mosaic virus infection spreads cell to cell as intact replication complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6291-6296.	3.3	280
8	Function of the 30 kd protein of tobacco mosaic virus: involvement in cell-to-cell movement and dispensability for replication. <i>EMBO Journal</i> , 1987, 6, 2557-2563.	3.5	265
9	Large-scale analysis of full-length cDNAs from the tomato (<i>Solanum lycopersicum</i>) cultivar Micro-Tom, a reference system for the Solanaceae genomics. <i>BMC Genomics</i> , 2010, 11, 210.	1.2	179
10	Two concomitant base substitutions in the putative replicase genes of tobacco mosaic virus confer the ability to overcome the effects of a tomato resistance gene, <i>Tm-1</i> . <i>EMBO Journal</i> , 1988, 7, 1575-1581.	3.5	158
11	SGS3 and RDR6 interact and colocalize in cytoplasmic SGS3/RDR6 bodies. <i>FEBS Letters</i> , 2009, 583, 1261-1266.	1.3	147
12	Location of a Possible miRNA Processing Site in SmD3/SmB Nuclear Bodies in Arabidopsis. <i>Plant and Cell Physiology</i> , 2007, 48, 1243-1253.	1.5	145
13	Distribution of tobamovirus movement protein in infected cells and implications for cell-to-cell spread of infection. <i>Plant Journal</i> , 1996, 10, 1079-1088.	2.8	143
14	A New Tobacco Mosaic Virus Vector and its Use for the Systemic Production of Angiotensin-I-Converting Enzyme Inhibitor in Transgenic Tobacco and Tomato. <i>Nature Biotechnology</i> , 1993, 11, 930-932.	9.4	132
15	Identification of the TMV Replicase Sequence That Activates the N Gene-Mediated Hypersensitive Response. <i>Molecular Plant-Microbe Interactions</i> , 1997, 10, 709-715.	1.4	132
16	UPF3 suppresses aberrant spliced mRNA in Arabidopsis. <i>Plant Journal</i> , 2005, 43, 530-540.	2.8	125
17	Synthesis of TMV-specific RNAs and proteins at the early stage of infection in tobacco protoplasts: Transient expression of the 30K protein and its mRNA. <i>Virology</i> , 1984, 133, 18-24.	1.1	124
18	klavier (klv), A novel hypernodulation mutant of <i>Lotus japonicus</i> affected in vascular tissue organization and floral induction. <i>Plant Journal</i> , 2005, 44, 505-515.	2.8	114

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19	Network Modeling Reveals Prevalent Negative Regulatory Relationships between Signaling Sectors in Arabidopsis Immune Signaling. PLoS Pathogens, 2010, 6, e1001011.	2.1	110
20	Infection of tobacco protoplasts with in vitro transcribed tobacco mosaic virus RNA using an improved electroporation method. FEBS Letters, 1987, 219, 65-69.	1.3	108
21	Tobamovirus Replicase Coding Region Is Involved in Cell-to-Cell Movement. Journal of Virology, 2001, 75, 8831-8836.	1.5	101
22	Systemic production of foreign peptides on the particle surface of tobacco mosaic virus. FEBS Letters, 1995, 359, 247-250.	1.3	93
23	Dual regulation of <i>ETTIN</i> (<i>ARF3</i>) gene expression by AS1-AS2, which maintains the DNA methylation level, is involved in stabilization of leaf adaxial-abaxial partitioning in <i>Arabidopsis</i> . Development (Cambridge), 2013, 140, 1958-1969.	1.2	91
24	Phosphorylation and/or Presence of Serine 37 in the Movement Protein of Tomato Mosaic Tobamovirus Is Essential for Intracellular Localization and Stability In Vivo. Journal of Virology, 1999, 73, 6831-6840.	1.5	85
25	Characterization of a Pepper Mild Mottle Tobamovirus Strain Capable of Overcoming the L3 Gene-Mediated Resistance, Distinct from the Resistance-Breaking Italian Isolate. Molecular Plant-Microbe Interactions, 1998, 11, 327-331.	1.4	84
26	Characterization of Arabidopsis decapping proteins AtDCP1 and AtDCP2, which are essential for post-embryonic development. FEBS Letters, 2007, 581, 2455-2459.	1.3	79
27	Fabrication of Aligned Magnetic Nanoparticles Using Tobamoviruses. Nano Letters, 2010, 10, 773-776.	4.5	79
28	Context Analysis of Termination Codons in mRNA that are Recognized by Plant NMD. Plant and Cell Physiology, 2007, 48, 1072-1078.	1.5	76
29	Resistance against multiple plant viruses in plants mediated by a double stranded-RNA specific ribonuclease. FEBS Letters, 1995, 372, 165-168.	1.3	73
30	Production of dengue 2 envelope domain III in plant using TMV-based vector system. Vaccine, 2007, 25, 6646-6654.	1.7	69
31	Profiling and Characterization of Small RNAs in the Liverwort, <i>Marchantia polymorpha</i> , Belonging to the First Diverged Land Plants. Plant and Cell Physiology, 2016, 57, 359-372.	1.5	68
32	In vivo phosphorylation of the 30-kDa protein of tobacco mosaic virus. FEBS Letters, 1992, 313, 181-184.	1.3	65
33	RNA Helicase Domain of Tobamovirus Replicase Executes Cell-to-Cell Movement Possibly through Collaboration with Its Nonconserved Region. Journal of Virology, 2003, 77, 12357-12362.	1.5	65
34	RNA Processing Bodies, Peroxisomes, Golgi Bodies, Mitochondria, and Endoplasmic Reticulum Tubule Junctions Frequently Pause at Cortical Microtubules. Plant and Cell Physiology, 2012, 53, 699-708.	1.5	64
35	Attenuated strains of tobacco mosaic virus. Journal of Molecular Biology, 1987, 194, 699-704.	2.0	61
36	Isolation and analysis of cDNAs encoding small GTP-binding proteins of Arabidopsis thaliana. Gene, 1991, 108, 259-264.	1.0	61

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37	Mutational analysis of the coat protein gene of tobacco mosaic virus in relation to hypersensitive response in tobacco plants with the N ² gene. <i>Virology</i> , 1989, 173, 11-20.	1.1	60
38	Binding of tobamovirus replication protein with small RNA duplexes. <i>Journal of General Virology</i> , 2007, 88, 2347-2352.	1.3	60
39	The Naming of Names: Guidelines for Gene Nomenclature in <i>Marchantia</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 257-261.	1.5	60
40	Production of enkephalin in tobacco protoplasts using tobacco mosaic virus RNA vector. <i>FEBS Letters</i> , 1990, 269, 73-76.	1.3	59
41	Specific Enrichment of miRNAs in <i>Arabidopsis thaliana</i> Infected with Tobacco mosaic virus. <i>DNA Research</i> , 2007, 14, 227-233.	1.5	57
42	Characterization of Tm-1 gene action on replication of common isolates and a resistance-breaking isolate of TMV. <i>Virology</i> , 1987, 161, 527-532.	1.1	56
43	Virus multiplication in tobacco protoplasts inoculated with tobacco mosaic virus rna encapsulated in large unilamellar vesicle liposomes. <i>Virology</i> , 1982, 120, 478-480.	1.1	52
44	Replication of chimeric tobacco mosaic viruses which carry heterologous combinations of replicase genes and 3' noncoding regions. <i>Virology</i> , 1988, 164, 290-293.	1.1	49
45	<i>Arabidopsis AtRRP44A</i> Is the Functional Homolog of Rrp44/Dis3, an Exosome Component, Is Essential for Viability and Is Required for RNA Processing and Degradation. <i>PLoS ONE</i> , 2013, 8, e79219.	1.1	47
46	Catalog of Micro-Tom tomato responses to common fungal, bacterial, and viral pathogens. <i>Journal of General Plant Pathology</i> , 2005, 71, 8-22.	0.6	46
47	In vitro phosphorylation of the movement protein of tomato mosaic tobamovirus by a cellular kinase. <i>Journal of General Virology</i> , 2000, 81, 2095-2102.	1.3	43
48	miR165/166 and the development of land plants. <i>Development Growth and Differentiation</i> , 2012, 54, 93-99.	0.6	42
49	NIMA-related kinases 6, 4, and 5 interact with each other to regulate microtubule organization during epidermal cell expansion in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2011, 67, 993-1005.	2.8	41
50	A NIMA-related protein kinase suppresses ectopic outgrowth of epidermal cells through its kinase activity and the association with microtubules. <i>Plant Journal</i> , 2008, 54, 829-844.	2.8	40
51	Amino acid taste receptor regulates insulin secretion in pancreatic Î²-cell line MIN6 cells. <i>Genes To Cells</i> , 2011, 16, 608-616.	0.5	40
52	Application of the Human Hepatitis B Virus Core Antigen from Transgenic Tobacco Plants for Serological Diagnosis. <i>Vox Sanguinis</i> , 1998, 74, 148-155.	0.7	39
53	Overexpression of putative transcriptional coactivator KELP interferes with <i>Tomato mosaic virus</i> cell-to-cell movement. <i>Molecular Plant Pathology</i> , 2009, 10, 161-173.	2.0	39
54	Nucleotide Sequence of the Japanese Isolate of Pepper Mild Mottle Tobamovirus (TMV-P) RNA.. <i>Nihon Shokubutsu Byori Gakkaiho = Annals of the Phytopathological Society of Japan</i> , 1997, 63, 373-376.	0.1	38

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55	The complete sequence of a Singapore isolate of odontoglossum ringspot virus and comparison with other tobamoviruses. <i>Gene</i> , 1996, 171, 155-161.	1.0	37
56	The initiation site for transcription of the TMV 30-kDa protein messenger RNA. <i>FEBS Letters</i> , 1984, 173, 247-250.	1.3	36
57	Identification of the 30K protein of TMV by immunoprecipitation with antibodies directed against a synthetic peptide. <i>Virology</i> , 1984, 132, 71-78.	1.1	35
58	In Vitro viral RNA synthesis by a subcellular fraction of TMV-inoculated tobacco protoplasts. <i>Virology</i> , 1986, 149, 64-73.	1.1	35
59	Effects of brefeldin A on the localization of Tobamovirus movement protein and cell-to-cell movement of the virus. <i>Virology</i> , 2007, 361, 133-140.	1.1	35
60	An Early Arising Role of the MicroRNA156/529-SPL Module in Reproductive Development Revealed by the Liverwort <i>Marchantia polymorpha</i> . <i>Current Biology</i> , 2019, 29, 3307-3314.e5.	1.8	34
61	A dominant mutation in <i>DCL1</i> suppresses the <i>hyl1</i> mutant phenotype by promoting the processing of miRNA. <i>Rna</i> , 2009, 15, 450-458.	1.6	33
62	Diffuse Decapping Enzyme DCP2 Accumulates in DCP1 Foci Under Heat Stress in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2015, 56, 107-115.	1.5	32
63	Light perception in aerial tissues enhances DWF4 accumulation in root tips and induces root growth. <i>Scientific Reports</i> , 2017, 7, 1808.	1.6	30
64	The role of decapping proteins in the miRNA accumulation in <i>Arabidopsis thaliana</i> . <i>RNA Biology</i> , 2012, 9, 644-652.	1.5	28
65	Defective Tobamovirus Movement Protein Lacking Wild-Type Phosphorylation Sites Can Be Complemented by Substitutions Found in Revertants. <i>Journal of Virology</i> , 2003, 77, 1452-1461.	1.5	27
66	Stress granule formation is induced by a threshold temperature rather than a temperature difference in <i>Arabidopsis</i> . <i>Journal of Cell Science</i> , 2018, 131, .	1.2	27
67	Expression and purification of a neuropeptide nocistatin using two related plant viral vectors. <i>Gene</i> , 2002, 289, 69-79.	1.0	26
68	Plant BioTechniques Series(5). Use of Green Fluorescent Protein as a Molecular Tag of Protein Movement In vivo.. <i>Plant Biotechnology</i> , 1997, 14, 127-130.	0.5	26
69	Subcellular localization of the 30K protein in TMV-inoculated tobacco protoplasts. <i>Virology</i> , 1986, 152, 414-420.	1.1	25
70	Replication of TMV-L and Lta1 RNAs and their recombinants in TMV-resistant Tm-1 tomato protoplasts. <i>Virology</i> , 1991, 183, 99-105.	1.1	25
71	Cross-protection in <i>Arabidopsis</i> against crucifer tobamovirus Cg by an attenuated strain of the virus. <i>Molecular Plant Pathology</i> , 2003, 4, 259-269.	2.0	24
72	Establishment of a monoclonal antibody for human LXRalpha: Detection of LXRalpha protein expression in human macrophages. <i>Nuclear Receptor</i> , 2003, 1, 1.	10.0	24

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73	Transgenic Rice Expressing Amyloid β -peptide for Oral Immunization. <i>International Journal of Biological Sciences</i> , 2011, 7, 301-307.	2.6	24
74	A survey of monitoring tap water hardness in Japan and its distribution patterns. <i>Scientific Reports</i> , 2021, 11, 13546.	1.6	24
75	Trans complementation of virus-encoded replicase components of tobacco mosaic virus. <i>Virology</i> , 1991, 185, 580-584.	1.1	23
76	In Planta production of immunogenic poliovirus peptide using tobacco mosaic virus-based vector system. <i>Journal of Bioscience and Bioengineering</i> , 2006, 101, 398-402.	1.1	23
77	Mapping of Host Range Restriction of the Rakkyo Strain of Tobacco Mosaic Virus in <i>Nicotiana tabacum</i> cv. Bright Yellow. <i>Virology</i> , 1996, 226, 198-204.	1.1	21
78	Recovery of <i>dicer-like 1</i> -late flowering phenotype by miR172 expressed by the noncanonical DCL4-dependent biogenesis pathway. <i>Rna</i> , 2014, 20, 1320-1327.	1.6	21
79	The GYF domain protein PSIG1 dampens the induction of cell death during plant-pathogen interactions. <i>PLoS Genetics</i> , 2017, 13, e1007037.	1.5	21
80	Reduction of amyloid β -peptide accumulation in Tg2576 transgenic mice by oral vaccination. <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 593-599.	1.0	20
81	Reinvestigation of intracellular localization of the 30K protein in tobacco protoplasts infected with tobacco mosaic virus RNA. <i>Virology</i> , 1992, 187, 809-813.	1.1	19
82	Effect of rice-expressed amyloid β in the Tg2576 Alzheimer's disease transgenic mouse model. <i>Vaccine</i> , 2011, 29, 6252-6258.	1.7	18
83	Preparation of antibodies that react with the large non-structural proteins of tobacco mosaic virus by using <i>Escherichia coli</i> expressed fragments. <i>Molecular Genetics and Genomics</i> , 1986, 205, 82-89.	2.4	16
84	Complete nucleotide sequence and synthesis of infectious in vitro transcripts from a full-length cDNA clone of a rakkyo strain of tobacco mosaic virus. <i>Archives of Virology</i> , 1996, 141, 885-900.	0.9	16
85	A Single Amino Acid Substitution in the Virus-Encoded Replicase of Tomato Mosaic Tobamovirus Alters Host Specificity. <i>Molecular Plant-Microbe Interactions</i> , 1997, 10, 1015-1018.	1.4	16
86	Cis-acting elements for in trans complementation of replication-defective mutant of tobacco mosaic virus. <i>Virology</i> , 1992, 191, 454-458.	1.1	15
87	Fabrication of 3-nm Platinum Wires Using a Tobacco Mosaic Virus Template. <i>Chemistry Letters</i> , 2010, 39, 616-618.	0.7	15
88	A New Tobamovirus-resistance Gene, <i>Hk</i> , in <i>Capsicum annum</i> . <i>Journal of the Japanese Society for Horticultural Science</i> , 2005, 74, 289-294.	0.4	12
89	Production of Anti-Amyloid β Antibodies in Mice Fed Rice Expressing Amyloid β . <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 396-400.	0.6	12
90	Overview of Plant RNAi. <i>Methods in Molecular Biology</i> , 2011, 744, 1-11.	0.4	12

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91	Identification of <i>Caenorhabditis elegans</i> K02H8.1 (CeMBL), a functional ortholog of mammalian MBNL proteins. <i>Journal of Neuroscience Research</i> , 2009, 87, 1090-1097.	1.3	11
92	Construction of a Tobamovirus Vector That Can Systemically Spread and Express Foreign Gene Products in Solanaceous Plants.. <i>Plant Biotechnology</i> , 2003, 20, 129-136.	0.5	11
93	Use of an Attenuated Strain of Tobamovirus for Early Detection of Virus-Induced Gene Silencing. <i>Plant Biotechnology</i> , 2004, 21, 135-142.	0.5	11
94	Loss of XRN4 Function Can Trigger Cosuppression in a Sequence-Dependent Manner. <i>Plant and Cell Physiology</i> , 2012, 53, 1310-1321.	1.5	10
95	Processing of miRNA Precursors. <i>Methods in Molecular Biology</i> , 2010, 592, 231-241.	0.4	10
96	Application of the Human Hepatitis B Virus Core Antigen from Transgenic Tobacco Plants for Serological Diagnosis. <i>Vox Sanguinis</i> , 1998, 74, 148-155.	0.7	10
97	Expression of Amyloid- β 40 and β 42 Peptides in <i>Capsicum annum</i> var. <i>angulosum</i> for Oral Immunization. <i>Assay and Drug Development Technologies</i> , 2004, 2, 383-388.	0.6	9
98	Nonsense-Mediated mRNA Decay Deficiency Affects the Auxin Response and Shoot Regeneration in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 2000-2014.	1.5	9
99	Detecting RNA/DNA Hybridization Using Double-Labeled Donor Probes With Enhanced Fluorescence Resonance Energy Transfer Signals. , 2006, 335, 43-56.		8
100	DWARF4 accumulation in root tips is enhanced via blue light perception by cryptochromes. <i>Plant, Cell and Environment</i> , 2019, 42, 1615-1629.	2.8	8
101	An extraction method for tobacco mosaic virus movement protein localizing in plasmodesmata. <i>Protoplasma</i> , 2005, 225, 85-92.	1.0	7
102	A virus-induced gene silencing approach for the suppression of nicotine content in <i>Nicotiana benthamiana</i> . <i>Plant Biotechnology</i> , 2007, 24, 295-300.	0.5	7
103	Localization of tobacco germin-like protein 1 in leaf intercellular space. <i>Plant Physiology and Biochemistry</i> , 2014, 85, 1-8.	2.8	6
104	<i>Arabidopsis</i> AtRRP44 has ribonuclease activity that is required to complement the growth defect of yeast <i>rrp44</i> Mutant. <i>Plant Biotechnology</i> , 2016, 33, 77-85.	0.5	6
105	Activation of SIPK in response to UV-C irradiation: utility of a glutathione-S transferase-tagged plant MAP kinase by transient expression with agroinfiltration. <i>Plant Biotechnology</i> , 2005, 22, 7-12.	0.5	5
106	In Vivo Analysis of Plant Nonsense-Mediated mRNA Decay. <i>Methods in Enzymology</i> , 2008, 449, 165-176.	0.4	5
107	Profiling New Small RNA Sequences. <i>Methods in Molecular Biology</i> , 2017, 1456, 177-188.	0.4	5
108	A TMV-Cg mutant with a truncated coat protein induces cell death resembling the hypersensitive response in <i>Arabidopsis</i> . <i>Molecules and Cells</i> , 2004, 17, 334-9.	1.0	5

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109	Structure and Functions of Tobacco Mosaic Virus RNA. , 1990, , 23-38.		4
110	Production of the herb <i>Ruta chalepensis</i> L. expressing amyloid β -GFP fusion protein. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2019, 95, 295-302.	1.6	3
111	Expression of Amyloid- β 40 and 42 Peptides in <i>Capsicum annum</i> var. <i>angulosum</i> for Oral Immunization. Assay and Drug Development Technologies, 2004, 2, 383-388.	0.6	3
112	Cloning New Small RNA Sequences. Methods in Molecular Biology, 2010, 631, 123-138.	0.4	2
113	The Movement Protein of Tomato Mosaic Tobamovirus Induces Tubular Structures in Tomato Protoplasts.. Nihon Shokubutsu Byori Gakkaiho = Annals of the Phytopathological Society of Japan, 1999, 65, 612-615.	0.1	2
114	Time Course Analysis of Immunolocalization of Coat Protein and Replicase Proteins in Protoplasts Inoculated with Tobacco Mosaic Virus.. Nihon Shokubutsu Byori Gakkaiho = Annals of the Phytopathological Society of Japan, 1993, 59, 143-154.	0.1	1
115	ã, ã,ãf«ã,1ãfTMã,ã,ãf1/4ã«ã,^ã,«æœ%œç”“éã1/4ããçTMœçã4. Kagaku To Seibutsu, 2003, 41, 183-189.	0.0	0
116	1P332 Genetic modification of Tobacco Mosaic Virus for application in constructing electronic devices(Bioengineering,Poster Presentations). Seibutsu Butsuri, 2007, 47, S106.	0.0	0
117	New Virus-Resistant Traits Endowed by Transgenes.. Radioisotopes, 1993, 42, 135-136.	0.1	0
118	Specific Detection of the Rakkyo Strain of Tobacco Mosaic Virus by Reverse Transcription and Polymerase Chain Reaction.. Nihon Shokubutsu Byori Gakkaiho = Annals of the Phytopathological Society of Japan, 1996, 62, 513-516.	0.1	0