

# Katsuyuki T Yamato

## List of Publications by Year in descending order

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78  
papers

5,442  
citations

101543

36  
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91884

69  
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84  
all docs

84  
docs citations

84  
times ranked

4126  
citing authors

#	ARTICLE	IF	CITATIONS
1	Image-Based Analysis Revealing the Molecular Mechanism of Peroxisome Dynamics in Plants. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 883491.	3.7	4
2	Fungal-Type Terpene Synthases in <i>Marchantia polymorpha</i> Are Involved in Sesquiterpene Biosynthesis in Oil Body Cells. <i>Plant and Cell Physiology</i> , 2021, 62, 528-537.	3.1	11
3	Development and Molecular Genetics of <i>Marchantia polymorpha</i> . <i>Annual Review of Plant Biology</i> , 2021, 72, 677-702.	18.7	61
4	Plastid Transformation of Sporelings from the Liverwort <i>Marchantia polymorpha</i> L.. <i>Methods in Molecular Biology</i> , 2021, 2317, 333-341.	0.9	1
5	Identification of the sex-determining factor in the liverwort <i>Marchantia polymorpha</i> reveals unique evolution of sex chromosomes in a haploid system. <i>Current Biology</i> , 2021, 31, 5522-5532.e7.	3.9	36
6	Regulation of the Poly(A) Status of Mitochondrial mRNA by Poly(A)-Specific Ribonuclease Is Conserved among Land Plants. <i>Plant and Cell Physiology</i> , 2020, 61, 470-480.	3.1	7
7	Chromatin Organization in Early Land Plants Reveals an Ancestral Association between H3K27me3, Transposons, and Constitutive Heterochromatin. <i>Current Biology</i> , 2020, 30, 573-588.e7.	3.9	160
8	The RopGEF KARAPPO Is Essential for the Initiation of Vegetative Reproduction in <i>Marchantia polymorpha</i> . <i>Current Biology</i> , 2019, 29, 3525-3531.e7.	3.9	23
9	GEMMA CUP-ASSOCIATED MYB1, an Ortholog of Axillary Meristem Regulators, Is Essential in Vegetative Reproduction in <i>Marchantia polymorpha</i> . <i>Current Biology</i> , 2019, 29, 3987-3995.e5.	3.9	35
10	A <i>cis</i> -acting bidirectional transcription switch controls sexual dimorphism in the liverwort. <i>EMBO Journal</i> , 2019, 38, .	7.8	59
11	Generative Cell Specification Requires Transcription Factors Evolutionarily Conserved in Land Plants. <i>Current Biology</i> , 2018, 28, 479-486.e5.	3.9	87
12	<i>De novo</i> Short Read Assembly and Functional Annotation of <i>Eleocharis vivipara</i> , a C <sub>3</sub> /C <sub>4</sub> Interconvertible Sedge Plant. <i>Environmental Control in Biology</i> , 2018, 56, 81-87.	0.7	2
13	Transcription factor DUO1 generated by neo-functionalization is associated with evolution of sperm differentiation in plants. <i>Nature Communications</i> , 2018, 9, 5283.	12.8	54
14	Novel gateway binary vectors for rapid tripartite DNA assembly and promoter analysis with various reporters and tags in the liverwort <i>Marchantia polymorpha</i> . <i>PLoS ONE</i> , 2018, 13, e0204964.	2.5	22
15	Cryopreservation of <i>Marchantia polymorpha</i> spermatozoa. <i>Journal of Plant Research</i> , 2018, 131, 1047-1054.	2.4	9
16	Identification of a Hexenal Reductase That Modulates the Composition of Green Leaf Volatiles. <i>Plant Physiology</i> , 2018, 178, 552-564.	4.8	45
17	Loss of CG methylation in <i>Marchantia polymorpha</i> causes disorganization of cell division and reveals unique DNA methylation regulatory mechanisms of non-CG methylation. <i>Plant and Cell Physiology</i> , 2018, 59, 2421-2431.	3.1	15
18	Dynamic reorganization of the endomembrane system during spermatogenesis in <i>Marchantia polymorpha</i> . <i>Journal of Plant Research</i> , 2017, 130, 433-441.	2.4	19

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19	<i>n</i> -Hexanal and ( <i>Z</i> )-3-hexenal are generated from arachidonic acid and linolenic acid by a lipoxygenase in <i>Marchantia polymorpha</i> L. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1148-1155.	1.3	20
20	“Fusion” in fertilization: interdisciplinary collaboration among plant and animal scientists. <i>Journal of Plant Research</i> , 2017, 130, 419-421.	2.4	2
21	Insights into Land Plant Evolution Garnered from the <i>Marchantia polymorpha</i> Genome. <i>Cell</i> , 2017, 171, 287-304.e15.	28.9	973
22	Abscisic acid-induced gene expression in the liverwort <i>Marchantia polymorpha</i> is mediated by evolutionarily conserved promoter elements. <i>Physiologia Plantarum</i> , 2016, 156, 407-420.	5.2	20
23	Transcriptome and proteome analyses provide insight into laticifer's defense of <i>Euphorbia tirucalli</i> against pests. <i>Plant Physiology and Biochemistry</i> , 2016, 108, 434-446.	5.8	16
24	An Evolutionarily Conserved Plant RKD Factor Controls Germ Cell Differentiation. <i>Current Biology</i> , 2016, 26, 1775-1781.	3.9	109
25	The Naming of Names: Guidelines for Gene Nomenclature in <i>Marchantia</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 257-261.	3.1	60
26	Cryopreservation of Gemmae from the Liverwort <i>Marchantia polymorpha</i> L.. <i>Plant and Cell Physiology</i> , 2016, 57, 300-306.	3.1	25
27	Identification of miRNAs and Their Targets in the Liverwort <i>Marchantia polymorpha</i> by Integrating RNA-Seq and Degradome Analyses. <i>Plant and Cell Physiology</i> , 2016, 57, 339-358.	3.1	70
28	Transcriptional Framework of Male Gametogenesis in the Liverwort <i>Marchantia polymorpha</i> L.. <i>Plant and Cell Physiology</i> , 2016, 57, 325-338.	3.1	83
29	Molecular Genetic Tools and Techniques for <i>Marchantia polymorpha</i> Research. <i>Plant and Cell Physiology</i> , 2016, 57, 262-270.	3.1	195
30	SNARE Molecules in <i>Marchantia polymorpha</i> : Unique and Conserved Features of the Membrane Fusion Machinery. <i>Plant and Cell Physiology</i> , 2016, 57, 307-324.	3.1	82
31	<i>Physcomitrella patens</i> Has Kinase-LRR R Gene Homologs and Interacting Proteins. <i>PLoS ONE</i> , 2014, 9, e95118.	2.5	11
32	Phototropin Encoded by a Single-Copy Gene Mediates Chloroplast Photorelocation Movements in the Liverwort <i>Marchantia polymorpha</i> L. <i>Plant Physiology</i> , 2014, 166, 411-427.	4.8	63
33	Co-option of a photoperiodic growth-phase transition system during land plant evolution. <i>Nature Communications</i> , 2014, 5, 3668.	12.8	100
34	Arachidonic acid-dependent carbon-eight volatile synthesis from wounded liverwort ( <i>Marchantia</i> ) Tj ETQq0 0 0 rgBT, Overlock, 10 Tf 50	2.9	25
35	Plastid Transformation of Sporelings and Suspension-Cultured Cells from the Liverwort <i>Marchantia polymorpha</i> L.. <i>Methods in Molecular Biology</i> , 2014, 1132, 439-447.	0.9	22
36	Visualization of auxin-mediated transcriptional activation using a common auxin-responsive reporter system in the liverwort <i>Marchantia polymorpha</i> . <i>Journal of Plant Research</i> , 2012, 125, 643-651.	2.4	70

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37	Comparative study of gene expression and major proteinsâ€™ function of laticifers in lignified and unlignified organs of mulberry. <i>Planta</i> , 2012, 235, 589-601.	3.2	22
38	ANGUSTIFOLIA, a plant homolog of CtBP/BARS, functions outside the nucleus. <i>Plant Journal</i> , 2011, 68, 788-799.	5.7	34
39	Characterization of the Lipid Accumulation in a New Microalgal Species, <i>Pseudochooricystis ellipsoidea</i> (Trebouxiophyceae). <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2010, 89, 909-913.	0.2	29
40	Evolutionarily Conserved Regulatory Mechanisms of Abscisic Acid Signaling in Land Plants: Characterization of <i>ABSCISIC ACID INSENSITIVE1</i> -Like Type 2C Protein Phosphatase in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Physiology</i> , 2010, 152, 1529-1543.	4.8	96
41	Application of Lifeact Reveals F-Actin Dynamics in <i>Arabidopsis thaliana</i> and the Liverwort, <i>Marchantia polymorpha</i> . <i>Plant and Cell Physiology</i> , 2009, 50, 1041-1048.	3.1	127
42	Cloning and characterization of a squalene synthase gene from a petroleum plant, <i>Euphorbia tirucalli</i> L. <i>Planta</i> , 2009, 229, 1243-1252.	3.2	50
43	Gene content, organization and molecular evolution of plant organellar genomes and sex chromosomes - Insights from the case of the liverwort <i>Marchantia polymorpha</i> . <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2009, 85, 108-124.	3.8	10
44	Direct transformation of the liverwort <i>Marchantia polymorpha</i> L. by particle bombardment using immature thalli developing from spores. <i>Plant Cell Reports</i> , 2008, 27, 1467-1473.	5.6	111
45	Production of Arachidonic and Eicosapentaenoic Acids in Plants Using Bryophyte Fatty Acid $\Delta^6$ -Desaturase, $\Delta^6$ -Elongase, and $\Delta^5$ -Desaturase Genes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 435-444.	1.3	50
46	<i>Agrobacterium</i> -Mediated Transformation of the Haploid Liverwort <i>Marchantia polymorpha</i> L., an Emerging Model for Plant Biology. <i>Plant and Cell Physiology</i> , 2008, 49, 1084-1091.	3.1	310
47	Gene organization of the liverwort Y chromosome reveals distinct sex chromosome evolution in a haploid system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6472-6477.	7.1	125
48	Simple and efficient plastid transformation system for the liverwort <i>Marchantia polymorpha</i> L. suspension-culture cells. <i>Transgenic Research</i> , 2007, 16, 41-49.	2.4	47
49	Isolation and functional characterization of fatty acid $\Delta^5$ -elongase gene from the liverwort <i>Marchantia polymorpha</i> L. <i>FEBS Letters</i> , 2006, 580, 149-154.	2.8	20
50	A Front-end Desaturase from <i>Chlamydomonas reinhardtii</i> Produces Pinolenic and Coniferonic Acids by $\Delta^{13}$ Desaturation in Methylophilic Yeast and Tobacco. <i>Plant and Cell Physiology</i> , 2006, 47, 64-73.	3.1	45
51	Cloning and characterization of a cDNA encoding $\Delta^2$ -amyrin synthase from petroleum plant <i>Euphorbia tirucalli</i> L. <i>Phytochemistry</i> , 2005, 66, 1759-1766.	2.9	51
52	Expressed sequence tags from callus of <i>Euphorbia tirucalli</i> : A resource for genes involved in triterpenoid and sterol biosynthesis. <i>Plant Biotechnology</i> , 2004, 21, 349-353.	1.0	11
53	Plant regeneration from internode explants of <i>Euphorbia tirucalli</i> . <i>Plant Biotechnology</i> , 2004, 21, 397-399.	1.0	11
54	Expression Profiling-Based Identification of CO <sub>2</sub> -Responsive Genes Regulated by CCM1 Controlling a Carbon-Concentrating Mechanism in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2004, 135, 1595-1607.	4.8	188

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55	Isolation and Characterization of $\Delta^6$ -Desaturase, an ELO-Like Enzyme and $\Delta^5$ -Desaturase from the Liverwort <i>Marchantia polymorpha</i> and Production of Arachidonic and Eicosapentaenoic Acids in the Methylophilic Yeast <i>Pichia Pastoris</i> . <i>Plant Molecular Biology</i> , 2004, 54, 335-352.	3.9	52
56	A mutant with constitutive sexual organ development in <i>Marchantia polymorpha</i> L.. <i>Sexual Plant Reproduction</i> , 2004, 16, 253-257.	2.2	17
57	Evolution of ribosomal DNA unit on the X chromosome independent of autosomal units in the liverwort <i>Marchantia polymorpha</i> . <i>Chromosome Research</i> , 2003, 11, 695-703.	2.2	19
58	MpFAE3, a $\Delta^2$ -Ketoacyl-CoA Synthase Gene in the Liverwort <i>Marchantia polymorpha</i> L., Is Preferentially Involved in Elongation of Palmitic Acid to Stearic Acid. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 1667-1674.	1.3	17
59	Functional Analysis of a $\Delta^2$ -Ketoacyl-CoA Synthase Gene, MpFAE2, by Gene Silencing in the Liverwort <i>Marchantia polymorpha</i> L.. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 605-612.	1.3	26
60	Multicopy genes uniquely amplified in the Y chromosome-specific repeats of the liverwort <i>Marchantia polymorpha</i> . <i>Nucleic Acids Research</i> , 2002, 30, 4675-4681.	14.5	50
61	The Y chromosome in the liverwort <i>Marchantia polymorpha</i> has accumulated unique repeat sequences harboring a male-specific gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 9454-9459.	7.1	95
62	Isolation of X and Y Chromosome-Specific DNA Markers From a Liverwort, <i>Marchantia polymorpha</i> , by Representational Difference Analysis. <i>Genetics</i> , 2001, 159, 981-985.	2.9	31
63	Construction of male and female PAC genomic libraries suitable for identification of Y chromosome-specific clones from the liverwort, <i>Marchantia polymorpha</i> . <i>Plant Journal</i> , 2000, 24, 421-428.	5.7	65
64	Direct transformation and plant regeneration of the haploid liverwort <i>Marchantia polymorpha</i> L. <i>Transgenic Research</i> , 2000, 9, 179-185.	2.4	71
65	Comparison of Expressed Sequence Tags from Male and Female Sexual Organs of <i>Marchantia polymorpha</i> . <i>DNA Research</i> , 2000, 7, 165-174.	3.4	20
66	Expressed Sequence Tags from Immature Female Sexual Organ of a Liverwort, <i>Marchantia polymorpha</i> . <i>DNA Research</i> , 1999, 6, 1-11.	3.4	32
67	Heteroplasmy and homoplasmy for maize mitochondrial mutants: a rare homoplasmic nad4 deletion mutant plant. , 1999, 90, 369-373.		44
68	Bryophyte 5S rDNA was inserted into 45S rDNA repeat units after the divergence from higher land plants. <i>Plant Molecular Biology</i> , 1999, 41, 679-685.	3.9	84
69	Cotranscriptional expression of mitochondrial genes for subunits of NADH dehydrogenase, nad5, nad4, nad2, in <i>Marchantia polymorpha</i> . <i>Molecular Genetics and Genomics</i> , 1993, 237, 343-350.	2.4	10
70	Occurrence and transcription of genes for nad1, nad3, nad4L, and nad6, coding for NADH dehydrogenase subunits 1, 3, 4L, and 6, in liverwort mitochondria. <i>Current Genetics</i> , 1993, 23, 526-531.	1.7	7
71	Group I introns in the liverwort mitochondrial genome: the gene coding for subunit 1 of cytochrome oxidase shares five intron positions with its fungal counterparts. <i>Nucleic Acids Research</i> , 1993, 21, 1297-1305.	14.5	53
72	Transfer RNA genes in the mitochondrial genome from a liverwort, <i>Marchantia polymorpha</i> : the absence of chloroplast-like tRNAs. <i>Nucleic Acids Research</i> , 1992, 20, 3773-3777.	14.5	54

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73	Gene clusters for ribosomal proteins in the mitochondrial genome of a liverwort, <i>Marchantia polymorpha</i> . <i>Nucleic Acids Research</i> , 1992, 20, 3199-3205.	14.5	79
74	Cloning and Nucleotide Sequence of <i>afxC-ORF469</i> Gene Cluster of <i>Synechocystis PCC6803</i> : Conservation with Liverwort Chloroplast <i>frxC-ORF465</i> and <i>nif</i> Operon. <i>Bioscience, Biotechnology and Biochemistry</i> , 1992, 56, 788-793.	1.3	24
75	Gene organization deduced from the complete sequence of liverwort <i>Marchantia polymorpha</i> mitochondrial DNA. <i>Journal of Molecular Biology</i> , 1992, 223, 1-7.	4.2	602
76	Mitochondrial genome structure of rice suspension culture from cytoplasmic male-sterile line (A-58CMS): reappraisal of the master circle. <i>Theoretical and Applied Genetics</i> , 1992, 83, 279-288.	3.6	34
77	Complete nucleotide sequence of the mitochondrial DNA from a liverwort, <i>Marchantia polymorpha</i> . <i>Plant Molecular Biology Reporter</i> , 1992, 10, 105-163.	1.8	23
78	The RopGEF KARAPPO is Essential for the Initiation of Vegetative Reproduction in <i>Marchantia</i> . <i>SSRN Electronic Journal</i> , 0, , .	0.4	0