

Hiroyuki Sekimoto

List of Publications by Year in descending order

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53
papers

1,464
citations

331670

21
h-index

345221

36
g-index

53
all docs

53
docs citations

53
times ranked

1402
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient transformation of the model zygnematophycean alga <i>Closterium peracerosum-strigosum-littorale</i> complex by square-pulse electroporation. <i>New Phytologist</i> , 2022, 233, 569-578.	7.3	13
2	Zygnematophycean algae: Possible models for cellular and evolutionary biology. <i>Seminars in Cell and Developmental Biology</i> , 2022, , .	5.0	5
3	Three sex phenotypes in a haploid algal species give insights into the evolutionary transition to a self-compatible mating system*. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 2984-2993.	2.3	4
4	The genus <i>Closterium</i> , a new model organism to study sexual reproduction in streptophytes. <i>New Phytologist</i> , 2019, 221, 99-104.	7.3	12
5	Expression of Genes from Paternal Alleles in Rice Zygotes and Involvement of <i>OsASGR-BBML1</i> in Initiation of Zygotic Development. <i>Plant and Cell Physiology</i> , 2019, 60, 725-737.	3.1	32
6	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
7	Identification of a new mating group and reproductive isolation in the <i>Closterium peracerosum-strigosum-littorale</i> complex. <i>Journal of Plant Research</i> , 2018, 131, 735-746.	2.4	6
8	Sexual reproduction and sex determination in green algae. <i>Journal of Plant Research</i> , 2017, 130, 423-431.	2.4	24
9	CRISPR/Cas9-based knockouts reveal that CpRPL1 is a negative regulator of the sex pheromone PR-IP in the <i>Closterium peracerosum-strigosum-littorale</i> complex. <i>Scientific Reports</i> , 2017, 7, 17873.	3.3	17
10	Molecular evolutionary analysis of a gender-limited MID ortholog from the homothallic species <i>Volvox africanus</i> with male and monoecious spheroids. <i>PLoS ONE</i> , 2017, 12, e0180313.	2.5	13
11	Concanavalin A Disrupts the Release of Fibrous Material Necessary for Zygote Formation of a Unicellular Charophycean Alga, <i>Closterium peracerosum-strigosum-littorale</i> Complex. <i>Frontiers in Plant Science</i> , 2016, 7, 1040.	3.6	4
12	Preparation of Knockdown Transformants of Unicellular Charophycean Alga, <i>Closterium peracerosum-strigosum-littorale</i> Complex. <i>Bio-protocol</i> , 2016, 6, .	0.4	6
13	A Receptor-Like Kinase, Related to Cell Wall Sensor of Higher Plants, is Required for Sexual Reproduction in the Unicellular Charophycean Alga, <i>Closterium peracerosum-strigosum-littorale</i> Complex. <i>Plant and Cell Physiology</i> , 2015, 56, 1456-1462.	3.1	25
14	Algal ancestor of land plants was preadapted for symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13390-13395.	7.1	292
15	Detailed analyses on the parthenospore formation in <i>Closterium moniliferum</i> (Zygnematophyceae, Charophyta). <i>Phycologia</i> , 2014, 53, 571-578.	1.4	2
16	Sexual Reproduction of a Unicellular Charophycean Alga, <i>Closterium peracerosum-strogosum-littorale</i> Complex. , 2014, , 345-357.		4
17	Characterization of sexual reproductive processes in <i>C. hara braunii</i> (<i>C. harales</i> , <i>C. harophyceae</i>). <i>Phycological Research</i> , 2014, 62, 214-221.	1.6	12
18	The Evolution of Male-Female Sexual Dimorphism Predates the Gender-Based Divergence of the Mating Locus Gene MAT3/RB. <i>Molecular Biology and Evolution</i> , 2013, 30, 1038-1040.	8.9	28

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19	New Insights into the Regulation of Sexual Reproduction in Closterium. International Review of Cell and Molecular Biology, 2012, 297, 309-338.	3.2	18
20	Properties of cell surface carbohydrates in sexual reproduction of the <i>Closterium peracerosum-strigosum-littorale</i> complex (Zygnematales, Charophyta). Journal of Phycology, 2010, 46, 278-284.	2.3	15
21	Zygospore formation between homothallic and heterothallic strains of Closterium. Sexual Plant Reproduction, 2012, 25, 1-9.	2.2	18
22	Stable Nuclear Transformation of the Closterium peracerosum-strigosum-littorale Complex. Plant and Cell Physiology, 2011, 52, 1676-1685.	3.1	45
23	Conjugation processes of <i>Penium margaritaceum</i> (Zygnemophyceae, Charophyta). Phycological Research, 2011, 59, 74-82.	1.6	7
24	An extended phylogenetic analysis reveals ancient origin of "non-green" phosphoribulokinase genes from two lineages of "green" secondary photosynthetic eukaryotes: Euglenophyta and Chlorarachniophyta. BMC Research Notes, 2011, 4, 330.	1.4	11
25	SEXUAL PROCESSES AND PHYLOGENETIC RELATIONSHIPS OF A HOMOTHALLIC STRAIN IN THE CLOSTERIUM PERACEROSUM-STRIGOSUM-LITTORALE COMPLEX (ZYGNEATALES, CHAROPHYCEAE). Journal of Phycology, 2010, 46, 278-284.	2.3	15
26	INTRACELLULAR LOCALIZATION OF AN ENDOGENOUS CELLULOSE SYNTHASE OF MICRASTERIAS DENTICULATA (DESMIDIALES, CHLOROPHYTA) BY MEANS OF TRANSIENT GENETIC TRANSFORMATION. Journal of Phycology, 2010, 46, 839-845.	2.3	18
27	Characterization and Molecular Cloning of Conjugation-Regulating Sex Pheromones in Homothallic Closterium. Plant and Cell Physiology, 2010, 51, 1515-1523.	3.1	10
28	Effect of antibiotics on cell proliferation in the Closterium peracerosum-strigosum-littorale complex (Charophyceae, Chlorophyta). Biologia (Poland), 2008, 63, 936-940.	1.5	5
29	REPRODUCTIVE ISOLATION BY SEX PHEROMONES IN THE CLOSTERIUM PERACEROSUM-STRIGOSUM-LITTORALE COMPLEX (ZYGNEATALES, CHAROPHYCEAE). Journal of Phycology, 2008, 44, 1197-1203.	2.3	19
30	Expression of Exogenous Genes Under the Control of Endogenous HSP70 and CAB Promoters in the Closterium peracerosum-strigosum-littorale complex. Plant and Cell Physiology, 2008, 49, 625-632.	3.1	28
31	Induction of sex pheromone secretion and observations of the secretory pathway in the Closterium peracerosum-strigosum-littorale complex. Plant Science, 2007, 173, 206-212.	3.6	3
32	Origins of the secondary plastids of Euglenophyta and Chlorarachniophyta as revealed by an analysis of the plastid-targeting, nuclear-encoded gene <i>psbO</i> . Journal of Phycology, 2007, 43, 1302-1309.	2.3	34
33	Physiological characterization of the sex pheromone protoplast-release-inducing protein from the Closterium peracerosum-strigosum-littorale complex (Charophyta). Phycological Research, 2006, 54, 116-121.	1.6	19
34	Gene Expression Profiling Using cDNA Microarray Analysis of the Sexual Reproduction Stage of the Unicellular Charophyte Alga Closterium peracerosum-strigosum-littorale Complex. Plant Physiology, 2006, 141, 271-279.	4.8	24
35	Characterization of MADS-box genes in charophyte green algae and its implication for the evolution of MADS-box genes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2436-2441.	7.1	128
36	A Sex Pheromone, Protoplast Release-inducing Protein (PR-IP) Inducer, Induces Sexual Cell Division and Production of PR-IP in Closterium. Plant and Cell Physiology, 2005, 46, 1472-1476.	3.1	26

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37	Plant Sex Pheromones. <i>Vitamins and Hormones</i> , 2005, 72, 457-478.	1.7	21
38	SEX PHEROMONES THAT INDUCE SEXUAL CELL DIVISION IN THE CLOSTERIUM PERACEROSUM-STRIGOSUM-LITTORALE COMPLEX (CHAROPHYTA)1. <i>Journal of Phycology</i> , 2003, 39, 303-309.	2.3	28
39	CLONING AND CHARACTERIZATION OF A cDNA ENCODING A SEXUAL CELL DIVISION-INDUCING PHEROMONE FROM A UNICELLULAR GREEN ALGA <i>CLOSTERIUM EHRENBORGII</i> (CHLOROPHYTA). <i>Journal of Phycology</i> , 2003, 39, 931-936.	2.3	19
40	Mucilage Secretion Regulated by Sex Pheromones in <i>Closterium peracerosum-strigosum-littorale</i> Complex. <i>Plant and Cell Physiology</i> , 2003, 44, 1081-1087.	3.1	22
41	Expressed Sequence Tags from the <i>Closterium peracerosum-strigosum-littorale</i> complex, a Unicellular Charophycean Alga, in the Sexual Reproduction Process. <i>DNA Research</i> , 2003, 10, 147-153.	3.4	16
42	Purification and characterization of a pheromone that induces sexual cell division in the unicellular green alga <i>Closterium ehrenbergii</i> . <i>Plant Physiology and Biochemistry</i> , 2002, 40, 183-188.	5.8	19
43	Production and secretion of a biologically active <i>Closterium</i> sex pheromone by <i>Saccharomyces cerevisiae</i> . <i>Plant Physiology and Biochemistry</i> , 2002, 40, 789-794.	5.8	19
44	Biochemical Characterization of an Adenylate Cyclase, <i>CyaB1</i> , in the Cyanobacterium <i>Anabaena</i> sp. Strain PCC 7120. <i>Journal of Plant Research</i> , 2001, 114, 387-394.	2.4	1
45	Intercellular Communication During Sexual Reproduction of <i>Closterium</i> (Conjugatophyceae). <i>Journal of Plant Research</i> , 2000, 113, 343-352.	2.4	27
46	Regulation of gibberellin biosynthesis genes during flower and early fruit development of tomato. <i>Plant Journal</i> , 1999, 17, 241-250.	5.7	123
47	DETECTION AND EVALUATION OF A NOVEL SEXUAL PHEROMONE THAT INDUCES SEXUAL CELL DIVISION OF <i>CLOSTERIUM EHRENBORGII</i> (CHLOROPHYTA)1. <i>Journal of Phycology</i> , 1997, 33, 441-445.	2.3	22
48	Analysis of genomic sequences encoding a sex pheromone from the <i>Closterium peracerosum-strigosum-littorale</i> complex. <i>Journal of Plant Research</i> , 1997, 110, 463-467.	2.4	7
49	BIOCHEMICAL, PHYSIOLOGICAL, AND MOLECULAR ANALYSIS OF SEXUAL ISOLATION IN THE SPECIES COMPLEX <i>CLOSTERIUM PERACEROSUM-STRIGOSUM-LITTORALE</i> (CHLOROPHYTA)1. <i>Journal of Phycology</i> , 1995, 31, 611-615.	2.3	9
50	Regulation of expression of the genes for a sex pheromone by an inducer of the sex pheromone in the <i>Closterium peracerosum-strigosum-littorale</i> complex. <i>Planta</i> , 1994, 193, 137-44.	3.2	39
51	Analysis of binding of biotinylated protoplast-release-inducing protein that induces release of gametic protoplasts in the <i>Closterium peracerosum-strigosum-littorale</i> complex. <i>Planta</i> , 1993, 189, 468-474.	3.2	36
52	ANALYSIS OF GAMETIC PROTOPLAST RELEASE IN THE <i>CLOSTERIUM PERACEROSUM-STRIGOSUM-LITTORALE</i> COMPLEX (CHLOROPHYTA)1. <i>Journal of Phycology</i> , 1992, 28, 615-619.	2.3	22
53	Biochemical and physiological properties of a protein inducing protoplast release during conjugation in the <i>Closterium peracerosum-strigosum-littorale</i> complex. <i>Planta</i> , 1990, 182, 348-354.	3.2	50