

Origin of land plants: Do conjugating green algae hold the

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Inferring the higher-order phylogeny of mosses (Bryophyta) and relatives using a large, multigene plastid data set. <i>American Journal of Botany</i> , 2011, 98, 839-849.	0.8	97
2	Transcriptional analysis of cell growth and morphogenesis in the unicellular green alga <i>Micrasterias</i> (Streptophyta), with emphasis on the role of expansin. <i>BMC Plant Biology</i> , 2011, 11, 128.	1.6	34
3	Into the deep: New discoveries at the base of the green plant phylogeny. <i>BioEssays</i> , 2011, 33, 683-692.	1.2	104
4	The enigmatic genome of <i>Chara australis</i> virus. <i>Journal of General Virology</i> , 2011, 92, 2679-2690.	1.3	30
5	The Cell Walls of Green Algae: A Journey through Evolution and Diversity. <i>Frontiers in Plant Science</i> , 2012, 3, 82.	1.7	319
6	Cell wall evolution and diversity. <i>Frontiers in Plant Science</i> , 2012, 3, 152.	1.7	99
7	A timeline for terrestrialization: consequences for the carbon cycle in the Palaeozoic. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 519-536.	1.8	227
8	The Charophycean green algae as model systems to study plant cell walls and other evolutionary adaptations that gave rise to land plants. <i>Plant Signaling and Behavior</i> , 2012, 7, 1-3.	1.2	144
9	New Insights into the Regulation of Sexual Reproduction in <i>Closterium</i> . <i>International Review of Cell and Molecular Biology</i> , 2012, 297, 309-338.	1.6	18
10	The evolution of root hairs and rhizoids. <i>Annals of Botany</i> , 2012, 110, 205-212.	1.4	136
11	A freshwater green alga under cadmium stress: Ameliorating calcium effects on ultrastructure and photosynthesis in the unicellular model <i>Micrasterias</i> . <i>Journal of Plant Physiology</i> , 2012, 169, 1489-1500.	1.6	77
12	The evolution of land plant hemoglobins. <i>Plant Science</i> , 2012, 191-192, 71-81.	1.7	50
13	The evolution of land plant cilia. <i>New Phytologist</i> , 2012, 195, 526-540.	3.5	39
14	Origin of strigolactones in the green lineage. <i>New Phytologist</i> , 2012, 195, 857-871.	3.5	258
15	Aeroterrestrial <i>Coleochaete</i> (Streptophyta, Coleochaetales) models early plant adaptation to land. <i>American Journal of Botany</i> , 2012, 99, 130-144.	0.8	57
16	Diversity and Evolution of Algae. <i>Advances in Botanical Research</i> , 2012, , 55-86.	0.5	60
18	Origin of land plants revisited in the light of sequence contamination and missing data. <i>Current Biology</i> , 2012, 22, R593-R594.	1.8	112
20	Broad Phylogenomic Sampling and the Sister Lineage of Land Plants. <i>PLoS ONE</i> , 2012, 7, e29696.	1.1	234

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21	Treatment with Antibiotics that Interfere with Peptidoglycan Biosynthesis Inhibits Chloroplast Division in the Desmid Closterium. <i>PLoS ONE</i> , 2012, 7, e40734.	1.1	23
22	Molecular phylogeny of baculiform desmid taxa (Zygnematophyceae). <i>Plant Systematics and Evolution</i> , 2012, 298, 1281-1292.	0.3	8
23	Phylogeny and Molecular Evolution of the Green Algae. <i>Critical Reviews in Plant Sciences</i> , 2012, 31, 1-46.	2.7	723
24	Systematics of the Green Algae: A Brief Introduction to the Current Status. <i>Progress in Botany Fortschritte Der Botanik</i> , 2012, , 259-280.	0.1	34
25	Ecophysiology and ultrastructure of <i>Ancylonema nordenskiöldii</i> (Zygnematales, Streptophyta), causing brown ice on glaciers in Svalbard (high arctic). <i>Polar Biology</i> , 2012, 35, 899-908.	0.5	94
26	Evolution of the life cycle in land plants. <i>Journal of Systematics and Evolution</i> , 2012, 50, 171-194.	1.6	54
27	Snow ball earth and the split of Streptophyta and Chlorophyta. <i>Trends in Plant Science</i> , 2013, 18, 180-183.	4.3	74
28	Changes in Phenolic Compounds and Cellular Ultrastructure of Arctic and Antarctic Strains of <i>Zygnema</i> (Zygnematophyceae, Streptophyta) after Exposure to Experimentally Enhanced UV to PAR Ratio. <i>Microbial Ecology</i> , 2013, 65, 68-83.	1.4	60
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30	Evolution of land plant genes encoding L-Ala-D/L-Glu epimerases (AEs) via horizontal gene transfer and positive selection. <i>BMC Plant Biology</i> , 2013, 13, 34.	1.6	16
31	Origin of land plants using the multispecies coalescent model. <i>Trends in Plant Science</i> , 2013, 18, 492-495.	4.3	109
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33	Updates on the model and the evolution of cytokinin signaling. <i>Current Opinion in Plant Biology</i> , 2013, 16, 569-574.	3.5	30
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38	Evolution of the plant "microbe symbiotic" toolkit™. <i>Trends in Plant Science</i> , 2013, 18, 298-304.	4.3	159

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39	<sc>NSP</sc>1 is a component of the Myc signaling pathway. <i>New Phytologist</i> , 2013, 199, 59-65.	3.5	95
40	The evolution of phenylpropanoid metabolism in the green lineage. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2013, 48, 123-152.	2.3	228
41	AUCSIA. <i>Plant Signaling and Behavior</i> , 2013, 8, e22928.	1.2	2
42	Osmotic stress in Arctic and Antarctic strains of the green alga <i>Zygnema</i> (Zygnematales.) <i>Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50</i>	1.1	73
43	Origin and evolution of PIN auxin transporters in the green lineage. <i>Trends in Plant Science</i> , 2013, 18, 5-10.	4.3	109
44	Characterization of the Heterotrimeric G-Protein Complex and Its Regulator from the Green Alga <i>Chara braunii</i> Expands the Evolutionary Breadth of Plant G-Protein Signaling. <i>Plant Physiology</i> , 2013, 163, 1510-1517.	2.3	25
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47	Evolution of the Class IV HD-Zip Gene Family in Streptophytes. <i>Molecular Biology and Evolution</i> , 2013, 30, 2347-2365.	3.5	31
48	Evolution of photoprotection mechanisms upon land colonization: evidence of <sc>PSBS</sc>-dependent <sc>NPQ</sc> in late Streptophyte algae. <i>Physiologia Plantarum</i> , 2013, 149, 583-598.	2.6	50
49	Unusual phenolic compounds contribute to ecophysiological performance in the purple-colored green alga <i><sc>Z</sc>ygonium ericetorum</i> (Zygnematophyceae, Streptophyta) from a high-altitude alpine habitat. <i>Journal of Phycology</i> , 2013, 49, 648-660.	1.0	57
50	Male-Female Crosstalk during Pollen Germination, Tube Growth and Guidance, and Double Fertilization. <i>Molecular Plant</i> , 2013, 6, 1018-1036.	3.9	282
51	Molecular and biochemical analysis of the first ARA6 homologue, a RAB5 GTPase, from green algae. <i>Journal of Experimental Botany</i> , 2013, 64, 5553-5568.	2.4	26
52	Polar Expansion Dynamics in the Plant Kingdom: A Diverse and Multifunctional Journey on the Path to Pollen Tubes. <i>Plants</i> , 2013, 2, 148-173.	1.6	14
53	Phylogenomics and Coalescent Analyses Resolve Extant Seed Plant Relationships. <i>PLoS ONE</i> , 2013, 8, e80870.	1.1	69
54	Microorganism and filamentous fungi drive evolution of plant synapses. <i>Frontiers in Cellular and Infection Microbiology</i> , 2013, 3, 44.	1.8	19
55	DNA Content Variation and Its Significance in the Evolution of the Genus <i>Micrasterias</i> (Desmidiaceae, Zygnematales.) <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50</i>	1.1	13
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58	Cellular Auxin Transport in Algae. Plants, 2014, 3, 58-69.	1.6	20
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62	The cortical cytoskeletal network and cell-wall dynamics in the unicellular charophycean green alga <i>Penium margaritaceum</i> . Annals of Botany, 2014, 114, 1237-1249.	1.4	31
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69	From algae to angiosperms—inferring the phylogeny of green plants (Viridiplantae) from 360 plastid genomes. BMC Evolutionary Biology, 2014, 14, 23.	3.2	468
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76	Dynamic aspects of spermiogenic chromatin condensation patterning by phase separation during the histone-to-protamine transition in charalean algae and relation to bryophytes. <i>Tissue and Cell</i> , 2014, 46, 415-432.	1.0	13
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80	Another Look at the Root of the Angiosperms Reveals a Familiar Tale. <i>Systematic Biology</i> , 2014, 63, 368-382.	2.7	68
81	Overly simplistic substitution models obscure green plant phylogeny. <i>Trends in Plant Science</i> , 2014, 19, 576-582.	4.3	30
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83	Evolutionary Aspects of Auxin Signalling. , 2014, , 265-290.		4
84	Characterization of sexual reproductive processes in <i>Chara braunii</i> (<i>Charales</i> , <i>Charophyceae</i>). <i>Phycological Research</i> , 2014, 62, 214-221.	0.8	12
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92	PIN proteins and the evolution of plant development. <i>Trends in Plant Science</i> , 2015, 20, 498-507.	4.3	63

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95	The defense substance allicin from garlic permeabilizes membranes of <i>Beta vulgaris</i> , <i>Rhoeo discolor</i> , <i>Chara corallina</i> and artificial lipid bilayers. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 602-611.	1.1	27
96	Molecular Analysis and Localization of <i>CaARA7</i> a Conventional <i>RAB5</i> GTPase from Characean Algae. <i>Traffic</i> , 2015, 16, 534-554.	1.3	9
97	Photosynthetic efficiency, desiccation tolerance and ultrastructure in two phylogenetically distinct strains of alpine <i>Zygnema</i> sp. (<i>Zygnematophyceae</i> , <i>Streptophyta</i>): role of pre-akinetete formation. <i>Protoplasma</i> , 2015, 252, 571-589.	1.0	88
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110	Localization and Quantification of Callose in the Streptophyte Green Algae <i>Zygnema</i> and <i>Klebsormidium</i> : Correlation with Desiccation Tolerance. <i>Plant and Cell Physiology</i> , 2015, 56, pcv139.	1.5	61

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111	Coalescent Methods Are Robust to the Simultaneous Effects of Long Branches and Incomplete Lineage Sorting. <i>Molecular Biology and Evolution</i> , 2015, 32, 791-805.	3.5	69
112	Transcriptomic Evidence for the Evolution of Shoot Meristem Function in Sporophyte-Dominant Land Plants through Concerted Selection of Ancestral Gametophytic and Sporophytic Genetic Programs. <i>Molecular Biology and Evolution</i> , 2015, 32, 355-367.	3.5	63
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114	Evolution of RLSB, a nuclear-encoded S1 domain RNA binding protein associated with post-transcriptional regulation of plastid-encoded <i>rbcL</i> mRNA in vascular plants. <i>BMC Evolutionary Biology</i> , 2016, 16, 141.	3.2	9
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122	A new microscopic method to analyse desiccation-induced volume changes in aeroterrestrial green algae. <i>Journal of Microscopy</i> , 2016, 263, 192-199.	0.8	11
123	Cytokinin-induced promotion of root meristem size in the fern <i>Azolla</i> supports a shoot-like origin of euphyllophyte roots. <i>New Phytologist</i> , 2016, 209, 705-720.	3.5	59
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126	The Genomes of Charophyte Green Algae. <i>Advances in Botanical Research</i> , 2016, , 255-270.	0.5	7
127	Chlorokybophyceae, Klebsormidiophyceae, Coleochaetophyceae. , 2016, , 1-20.		1
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130	Charophyceae (Charales). , 2016, , 1-20.		0
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139	Characterization of Phytochrome Interacting Factors from the Moss <i>Physcomitrella patens</i> Illustrates Conservation of Phytochrome Signaling Modules in Land Plants. Plant Cell, 2017, 29, 310-330.	3.1	61
141	Phylogenetic analysis of F-bZIP transcription factors indicates conservation of the zinc deficiency response across land plants. Scientific Reports, 2017, 7, 3806.	1.6	46
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143	Development and genetics in the evolution of land plant body plans. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20150490.	1.8	166
144	Chlorokybophyceae, Klebsormidiophyceae, Coleochaetophyceae. , 2017, , 185-204.		3
145	Charophyceae (Charales). , 2017, , 165-183.		4
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148	Enhanced Desiccation Tolerance in Mature Cultures of the Streptophytic Green Alga <i>Zygnema circumcarinatum</i> Revealed by Transcriptomics. <i>Plant and Cell Physiology</i> , 2017, 58, 2067-2084.	1.5	95
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151	Origin of TAA Genes in Charophytes: New Insights into the Controversy over the Origin of Auxin Biosynthesis. <i>Frontiers in Plant Science</i> , 2017, 8, 1616.	1.7	30
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