

J Mark Cock

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3664566/j-mark-cock-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

5,573
citations

40
h-index

72
g-index

139
ext. papers

6,567
ext. citations

7.2
avg, IF

5.29
L-index

#	Paper	IF	Citations
130	Providing a phylogenetic framework for trait-based analyses in brown algae: Phylogenomic tree inferred from 32 nuclear protein-coding sequences.. <i>Molecular Phylogenetics and Evolution</i> , 2022 , 168, 107408	4.1	0
129	Chromatin landscape associated with sexual differentiation in a UV sex determination system.. <i>Nucleic Acids Research</i> , 2022 ,	20.1	2
128	An Efficient Chromatin Immunoprecipitation Protocol for the Analysis of Histone Modification Distributions in the Brown Alga <i>Ectocarpus</i> . <i>Methods and Protocols</i> , 2022 , 5, 36	2.5	0
127	Biochemical characteristics of a diffusible factor that induces gametophyte to sporophyte switching in the brown alga <i>Ectocarpus</i> . <i>Journal of Phycology</i> , 2021 , 57, 742-753	3	1
126	Evolution of life cycles and reproductive traits: Insights from the brown algae. <i>Journal of Evolutionary Biology</i> , 2021 , 34, 992-1009	2.3	5
125	Alternation of Generations in Plants and Algae 2021 , 631-644		1
124	Histone modifications during the life cycle of the brown alga <i>Ectocarpus</i> . <i>Genome Biology</i> , 2021 , 22, 12	18.3	9
123	Role and Evolution of the Extracellular Matrix in the Acquisition of Complex Multicellularity in Eukaryotes: A Macroalgal Perspective. <i>Genes</i> , 2021 , 12,	4.2	6
122	Targeted CRISPR-Cas9-based gene knockouts in the model brown alga <i>Ectocarpus</i> . <i>New Phytologist</i> , 2021 , 231, 2077-2091	9.8	7
121	A partially sex-reversed giant kelp sheds light into the mechanisms of sexual differentiation in a UV sexual system. <i>New Phytologist</i> , 2021 , 232, 252-263	9.8	2
120	instaGRAAL: chromosome-level quality scaffolding of genomes using a proximity ligation-based scaffold. <i>Genome Biology</i> , 2020 , 21, 148	18.3	11
119	Organelle inheritance and genome architecture variation in isogamous brown algae. <i>Scientific Reports</i> , 2020 , 10, 2048	4.9	7
118	Parallelisable non-invasive biomass, fitness and growth measurement of macroalgae and other protists with nephelometry. <i>Algal Research</i> , 2020 , 46, 101762	5	1
117	Production and Bioassay of a Diffusible Factor That Induces Gametophyte-to-Sporophyte Developmental Reprogramming in the Brown Alga. <i>Bio-protocol</i> , 2020 , 10, e3753	0.9	1
116	Brown Algal Model Organisms. <i>Annual Review of Genetics</i> , 2020 , 54, 71-92	14.5	7
115	Cytokinin and Ethylene Cell Signaling Pathways from Prokaryotes to Eukaryotes. <i>Cells</i> , 2020 , 9,	7.9	4
114	Phylogeny and Evolution of the Brown Algae. <i>Critical Reviews in Plant Sciences</i> , 2020 , 39, 281-321	5.6	31

113	: an evo-devo model for the brown algae. <i>EvoDevo</i> , 2020 , 11, 19	3.2	5
112	Unusual Patterns of Mitochondrial Inheritance in the Brown Alga <i>Ectocarpus</i> . <i>Molecular Biology and Evolution</i> , 2019 , 36, 2778-2789	8.3	3
111	Origin and evolution of sex-determination systems in the brown algae. <i>New Phytologist</i> , 2019 , 222, 1751-1756	18.56	10
110	A key role for sex chromosomes in the regulation of parthenogenesis in the brown alga <i>Ectocarpus</i> . <i>PLoS Genetics</i> , 2019 , 15, e1008211	6	11
109	Megaviruses: An involvement in phytohormone receptor gene transfer in brown algae?. <i>Gene</i> , 2019 , 704, 149-151	3.8	4
108	Rapid turnover of life-cycle-related genes in the brown algae. <i>Genome Biology</i> , 2019 , 20, 35	18.3	17
107	Convergent recruitment of TALE homeodomain life cycle regulators to direct sporophyte development in land plants and brown algae. <i>ELife</i> , 2019 , 8,	8.9	33
106	Diversity and Evolution of Sensor Histidine Kinases in Eukaryotes. <i>Genome Biology and Evolution</i> , 2019 , 11, 86-108	3.9	16
105	Genetic Diversity in the UV Sex Chromosomes of the Brown Alga. <i>Genes</i> , 2018 , 9,	4.2	10
104	UV Chromosomes and Haploid Sexual Systems. <i>Trends in Plant Science</i> , 2018 , 23, 794-807	13.1	34
103	The <i>Ectocarpus</i> IMMEDIATE UPRIGHT gene encodes a member of a novel family of cysteine-rich proteins with an unusual distribution across the eukaryotes. <i>Development (Cambridge)</i> , 2017 , 144, 409-418	6.6	18
102	Multiple gene movements into and out of haploid sex chromosomes. <i>Genome Biology</i> , 2017 , 18, 104	18.3	31
101	The Algal Revolution. <i>Trends in Plant Science</i> , 2017 , 22, 726-738	13.1	48
100	High-density genetic map and identification of QTLs for responses to temperature and salinity stresses in the model brown alga <i>Ectocarpus</i> . <i>Scientific Reports</i> , 2017 , 7, 43241	4.9	25
99	Biotic interactions as drivers of algal origin and evolution. <i>New Phytologist</i> , 2017 , 216, 670-681	9.8	18
98	DISTAG/TBCCd1 Is Required for Basal Cell Fate Determination in. <i>Plant Cell</i> , 2017 , 29, 3102-3122	11.6	12
97	Re-annotation, improved large-scale assembly and establishment of a catalogue of noncoding loci for the genome of the model brown alga <i>Ectocarpus</i> . <i>New Phytologist</i> , 2017 , 214, 219-232	9.8	46
96	Rapid Evolution of microRNA Loci in the Brown Algae. <i>Genome Biology and Evolution</i> , 2017 , 9, 740-749	3.9	15

95 Alternation of Generations in Plants and Algae **2017**, 1-14

94	Characterization of newly developed expressed sequence tag-derived microsatellite markers revealed low genetic diversity within and low connectivity between European <i>Saccharina latissima</i> populations. <i>Journal of Applied Phycology</i> , 2016 , 28, 3057-3070	3.2	14
93	microRNAs and the evolution of complex multicellularity: identification of a large, diverse complement of microRNAs in the brown alga <i>Ectocarpus</i> . <i>Nucleic Acids Research</i> , 2015 , 43, 6384-98	20.1	28
92	Independent Emergence of Complex Multicellularity in the Brown and Red Algae. <i>Advances in Marine Genomics</i> , 2015 , 335-361		10
91	Sexual dimorphism and the evolution of sex-biased gene expression in the brown alga <i>ectocarpus</i> . <i>Molecular Biology and Evolution</i> , 2015 , 32, 1581-97	8.3	68
90	The Pseudoautosomal Regions of the U/V Sex Chromosomes of the Brown Alga <i>Ectocarpus</i> Exhibit Unusual Features. <i>Molecular Biology and Evolution</i> , 2015 , 32, 2973-85	8.3	16
89	Genome-wide comparison of ultraviolet and ethyl methanesulphonate mutagenesis methods for the brown alga <i>Ectocarpus</i> . <i>Marine Genomics</i> , 2015 , 24 Pt 1, 109-13	1.9	9
88	Evolution and maintenance of haploid-diploid life cycles in natural populations: The case of the marine brown alga <i>Ectocarpus</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2015 , 69, 1808-22	3.8	36
87	Development of PCR-Based Markers to Determine the Sex of Kelps. <i>PLoS ONE</i> , 2015 , 10, e0140535	3.7	23
86	Emergence of <i>Ectocarpus</i> as a Model System to Study the Evolution of Complex Multicellularity in the Brown Algae. <i>Advances in Marine Genomics</i> , 2015 , 153-162		4
85	Proteomics analysis of heterogeneous flagella in brown algae (stramenopiles). <i>Protist</i> , 2014 , 165, 662-752	5.5	26
84	A haploid system of sex determination in the brown alga <i>Ectocarpus</i> sp. <i>Current Biology</i> , 2014 , 24, 1945-57	5.7	93
83	Evolution and regulation of complex life cycles: a brown algal perspective. <i>Current Opinion in Plant Biology</i> , 2014 , 17, 1-6	9.9	41
82	Gene silencing in <i>Fucus</i> embryos: developmental consequences of RNAi-mediated cytoskeletal disruption. <i>Journal of Phycology</i> , 2013 , 49, 819-29	3	20
81	Genome structure and metabolic features in the red seaweed <i>Chondrus crispus</i> shed light on evolution of the Archaeplastida. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5247-52	11.5	239
80	Ecological and evolutionary genomics of marine photosynthetic organisms. <i>Molecular Ecology</i> , 2013 , 22, 867-907	5.7	27
79	Non-cell autonomous regulation of life cycle transitions in the model brown alga <i>Ectocarpus</i> . <i>New Phytologist</i> , 2013 , 197, 503-510	9.8	17
78	Genomics of brown algae: current advances and future prospects. <i>Genes and Genomics</i> , 2012 , 34, 1-5	2.1	6

77	The Ectocarpus Genome and Brown Algal Genomics: The Ectocarpus Genome Consortium. <i>Advances in Botanical Research</i> , 2012 , 64, 141-184	2.2	10
76	Extraction of high-quality genomic DNA from Ectocarpus. <i>Cold Spring Harbor Protocols</i> , 2012 , 2012, 365-8.2		2
75	Immunostaining of Ectocarpus cells. <i>Cold Spring Harbor Protocols</i> , 2012 , 2012, 369-72	1.2	5
74	Ectocarpus: a model organism for the brown algae. <i>Cold Spring Harbor Protocols</i> , 2012 , 2012, 193-8	1.2	33
73	Genetic crosses between Ectocarpus strains. <i>Cold Spring Harbor Protocols</i> , 2012 , 2012, 262-5	1.2	13
72	How to cultivate Ectocarpus. <i>Cold Spring Harbor Protocols</i> , 2012 , 2012, 258-61	1.2	39
71	In silico survey of the mitochondrial protein uptake and maturation systems in the brown alga Ectocarpus siliculosus. <i>PLoS ONE</i> , 2011 , 6, e19540	3.7	10
70	Brown algae. <i>Current Biology</i> , 2011 , 21, R573-5	6.3	21
69	Microarray estimation of genomic inter-strain variability in the genus Ectocarpus (Phaeophyceae). <i>BMC Molecular Biology</i> , 2011 , 12, 2	4.5	18
68	Genetic regulation of life cycle transitions in the brown alga Ectocarpus. <i>Plant Signaling and Behavior</i> , 2011 , 6, 1858-60	2.5	8
67	OUROBOROS is a master regulator of the gametophyte to sporophyte life cycle transition in the brown alga Ectocarpus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11518-23	11.5	69
66	Algal models in plant biology. <i>Journal of Experimental Botany</i> , 2011 , 62, 2425-30	7	25
65	Characterization of GDP-mannose dehydrogenase from the brown alga Ectocarpus siliculosus providing the precursor for the alginate polymer. <i>Journal of Biological Chemistry</i> , 2011 , 286, 16707-15	5.4	24
64	A sequence-tagged genetic map for the brown alga Ectocarpus siliculosus provides large-scale assembly of the genome sequence. <i>New Phytologist</i> , 2010 , 188, 42-51	9.8	51
63	Genetic diversity of Ectocarpus (Ectocarpales, Phaeophyceae) in Peru and northern Chile, the area of origin of the genome-sequenced strain. <i>New Phytologist</i> , 2010 , 188, 30-41	9.8	19
62	Central and storage carbon metabolism of the brown alga Ectocarpus siliculosus: insights into the origin and evolution of storage carbohydrates in Eukaryotes. <i>New Phytologist</i> , 2010 , 188, 67-81	9.8	129
61	Role of endoreduplication and apomeiosis during parthenogenetic reproduction in the model brown alga Ectocarpus. <i>New Phytologist</i> , 2010 , 188, 111-21	9.8	40
60	The cell wall polysaccharide metabolism of the brown alga Ectocarpus siliculosus. Insights into the evolution of extracellular matrix polysaccharides in Eukaryotes. <i>New Phytologist</i> , 2010 , 188, 82-97	9.8	297

59	The Ectocarpus genome sequence: insights into brown algal biology and the evolutionary diversity of the eukaryotes. <i>New Phytologist</i> , 2010 , 188, 1-4	9.8	32
58	The Ectocarpus genome and the independent evolution of multicellularity in brown algae. <i>Nature</i> , 2010 , 465, 617-21	50.4	645
57	Reinstatement of Ectocarpus crouaniorum Thuret in Le Jolis as a third common species of Ectocarpus (Ectocarpales, Phaeophyceae) in Western Europe, and its phenology at Roscoff, Brittany. <i>Phycological Research</i> , 2010 , 58, 157-170	1.3	35
56	Cell cycles and endocycles in the model brown seaweed, Ectocarpus siliculosus. <i>Plant Signaling and Behavior</i> , 2010 , 5, 1473-5	2.5	5
55	Auxin metabolism and function in the multicellular brown alga Ectocarpus siliculosus. <i>Plant Physiology</i> , 2010 , 153, 128-44	6.6	76
54	Copper stress proteomics highlights local adaptation of two strains of the model brown alga Ectocarpus siliculosus. <i>Proteomics</i> , 2010 , 10, 2074-88	4.8	77
53	Genomics of Marine Algae 2010 , 179-211		2
52	03-P056 Molecular control of the alternation of generations in the brown alga Ectocarpus: The OUROBOROS mutant exhibits homeotic conversion of the sporophyte into a gametophyte. <i>Mechanisms of Development</i> , 2009 , 126, S83	1.7	
51	Plastid genomes of two brown algae, Ectocarpus siliculosus and Fucus vesiculosus: further insights on the evolution of red-algal derived plastids. <i>BMC Evolutionary Biology</i> , 2009 , 9, 253	3	71
50	Global expression analysis of the brown alga Ectocarpus siliculosus (Phaeophyceae) reveals large-scale reprogramming of the transcriptome in response to abiotic stress. <i>Genome Biology</i> , 2009 , 10, R66	18.3	113
49	EARLY DEVELOPMENT PATTERN OF THE BROWN ALGA ECTOCARPUS SILICULOSUS (ECTOCARPALES, PHAEOPHYCEAE) SPOROPHYTE(1). <i>Journal of Phycology</i> , 2008 , 44, 1269-81	3	21
48	Development and physiology of the brown alga Ectocarpus siliculosus: two centuries of research. <i>New Phytologist</i> , 2008 , 177, 319-332	9.8	103
47	HECTAR: a method to predict subcellular targeting in heterokonts. <i>BMC Bioinformatics</i> , 2008 , 9, 393	3.6	141
46	Scent evolution in Chinese roses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5927-32	11.5	68
45	Life-cycle-generation-specific developmental processes are modified in the immediate upright mutant of the brown alga Ectocarpus siliculosus. <i>Development (Cambridge)</i> , 2008 , 135, 1503-12	6.6	76
44	The FTO gene, implicated in human obesity, is found only in vertebrates and marine algae. <i>Journal of Molecular Evolution</i> , 2008 , 66, 80-4	3.1	50
43	Both the adaxial and abaxial epidermal layers of the rose petal emit volatile scent compounds. <i>Planta</i> , 2007 , 226, 853-66	4.7	80
42	Production and emission of volatile compounds by petal cells. <i>Plant Signaling and Behavior</i> , 2007 , 2, 525-6.5		18

41	Complex life cycles of multicellular eukaryotes: new approaches based on the use of model organisms. <i>Gene</i> , 2007 , 406, 152-70	3.8	92
40	Role of petal-specific orcinol O-methyltransferases in the evolution of rose scent. <i>Plant Physiology</i> , 2006 , 140, 18-29	6.6	55
39	BIGPETALp, a bHLH transcription factor is involved in the control of Arabidopsis petal size. <i>EMBO Journal</i> , 2006 , 25, 3912-20	13	142
38	A W-box is required for full expression of the SA-responsive gene SFR2. <i>Gene</i> , 2005 , 344, 181-92	3.8	22
37	Inheritance of organelles in artificial hybrids of the isogamous multicellular chromist alga <i>Ectocarpus siliculosus</i> (Phaeophyceae). <i>European Journal of Phycology</i> , 2004 , 39, 235-242	2.2	50
36	PROPOSAL OF ECTOCARPUS SILICULOSUS (ECTOCARPALES, PHAEOPHYCEAE) AS A MODEL ORGANISM FOR BROWN ALGAL GENETICS AND GENOMICS ^{1,2} . <i>Journal of Phycology</i> , 2004 , 40, 1079-1088	3	112
35	Antisense suppression of thioredoxin h mRNA in Brassica napus cv. Westar pistils causes a low level constitutive pollen rejection response. <i>Plant Molecular Biology</i> , 2004 , 55, 619-30	4.6	38
34	Making inroads into plant receptor kinase signalling pathways. <i>Trends in Plant Science</i> , 2003 , 8, 231-7	13.1	72
33	Interaction of calmodulin, a sorting nexin and kinase-associated protein phosphatase with the Brassica oleracea S locus receptor kinase. <i>Plant Physiology</i> , 2003 , 133, 919-29	6.6	96
32	Receptor kinase signalling in plants and animals: distinct molecular systems with mechanistic similarities. <i>Current Opinion in Cell Biology</i> , 2002 , 14, 230-6	9	69
31	Analysis of gene expression in rose petals using expressed sequence tags. <i>FEBS Letters</i> , 2002 , 515, 35-8	3.8	70
30	Biosynthesis of the major scent components 3,5-dimethoxytoluene and 1,3,5-trimethoxybenzene by novel rose O-methyltransferases. <i>FEBS Letters</i> , 2002 , 523, 113-8	3.8	60
29	Comparison of the expression patterns of two small gene families of S gene family receptor kinase genes during the defence response in Brassica oleracea and Arabidopsis thaliana. <i>Gene</i> , 2002 , 282, 215-25	3.8	35
28	Two large Arabidopsis thaliana gene families are homologous to the Brassica gene superfamily that encodes pollen coat proteins and the male component of the self-incompatibility response. <i>Plant Molecular Biology</i> , 2001 , 46, 17-34	4.6	61
27	Further analysis of the interactions between the Brassica S receptor kinase and three interacting proteins (ARC1, THL1 and THL2) in the yeast two-hybrid system. <i>Plant Molecular Biology</i> , 2001 , 45, 365-76	4.6	50
26	The S-locus receptor kinase is inhibited by thioredoxins and activated by pollen coat proteins. <i>Nature</i> , 2001 , 410, 220-3	50.4	208
25	A large family of genes that share homology with CLAVATA3. <i>Plant Physiology</i> , 2001 , 126, 939-42	6.6	282
24	Intrahaplotype polymorphism at the Brassica S locus. <i>Genetics</i> , 2001 , 159, 811-22	4	31

23	The S15 self-incompatibility haplotype in <i>Brassica oleracea</i> includes three S gene family members expressed in stigmas. <i>Plant Cell</i> , 1999 , 11, 971-86	11.6	64
22	A Functional S Locus Anther Gene Is Not Required for the Self-Incompatibility Response in <i>Brassica oleracea</i> . <i>Plant Cell</i> , 1997 , 9, 2065	11.6	1
21	Rapid Induction by Wounding and Bacterial Infection of an S Gene Family Receptor-Like Kinase Gene in <i>Brassica oleracea</i> . <i>Plant Cell</i> , 1997 , 9, 49	11.6	11
20	Natural antisense transcripts of the S locus receptor kinase gene and related sequences in <i>Brassica oleracea</i> . <i>Molecular Genetics and Genomics</i> , 1997 , 255, 514-24		33
19	Characterization of the S locus genes, SLG and SRK, of the <i>Brassica</i> S3 haplotype: identification of a membrane-localized protein encoded by the S locus receptor kinase gene. <i>Plant Journal</i> , 1995 , 7, 429-40	6.9	114
18	The S locus receptor kinase gene encodes a soluble glycoprotein corresponding to the SKR extracellular domain in <i>Brassica oleracea</i> . <i>Plant Journal</i> , 1995 , 8, 827-34	6.9	59
17	PCR-generated cDNA library of transition-stage maize embryos: cloning and expression of calmodulin genes during early embryogenesis. <i>Plant Molecular Biology</i> , 1995 , 27, 105-13	4.6	18
16	S-locus glycoproteins are expressed along the path of pollen tubes in <i>Brassica</i> pistils. <i>Planta</i> , 1995 , 196, 614	4.7	3
15	Characterization of three putative receptors homologous to genes of <i>Brassica</i> involved in self-incompatibility. <i>Biology of the Cell</i> , 1995 , 84, 97-97	3.5	
14	Expression of the extracellular domain of a plant receptor in insect cells using different baculovirus vectors. <i>Biology of the Cell</i> , 1995 , 84, 97-97	3.5	
13	SLR3: a modified receptor kinase gene that has been adapted to encode a putative secreted glycoprotein similar to the S locus glycoprotein. <i>Molecular Genetics and Genomics</i> , 1995 , 248, 151-61		13
12	Characterization of the gene encoding the plastid-located glutamine synthetase of <i>Phaseolus vulgaris</i> : regulation of beta-glucuronidase gene fusions in transgenic tobacco. <i>Plant Molecular Biology</i> , 1992 , 18, 1141-9	4.6	16
11	Regulation of glutamine synthetase genes in leaves of <i>Phaseolus vulgaris</i> . <i>Plant Molecular Biology</i> , 1991 , 17, 761-71	4.6	51
10	A nuclear gene with many introns encoding ammonium-inducible chloroplastic NADP-specific glutamate dehydrogenase(s) in <i>Chlorella sorokiniana</i> . <i>Plant Molecular Biology</i> , 1991 , 17, 1023-44	4.6	22
9	RESTRICTION ENZYME ANALYSIS AND CLONING OF HIGH MOLECULAR WEIGHT GENOMIC DNA ISOLATED FROM <i>CHLORELLA SOROKINIANA</i> (CHLOROPHYTA)1. <i>Journal of Phycology</i> , 1990 , 26, 361-367		7
8	Expression of glutamine synthetase genes in roots and nodules of <i>Phaseolus vulgaris</i> following changes in the ammonium supply and infection with various <i>Rhizobium</i> mutants. <i>Plant Molecular Biology</i> , 1990 , 14, 549-60	4.6	42
7	A glutamate dehydrogenase gene sequence. <i>Nucleic Acids Research</i> , 1989 , 17, 10500	20.1	4
6	Chromosome-level quality scaffolding of brown algal genomes using InstaGRAAL, a proximity ligation-based scaffold		2

5	Histone modifications during the life cycle of the brown alga <i>Ectocarpus</i>	3
4	Rapid Turnover of Life-Cycle-Related Genes in the Brown Algae	2
3	Evolution of life cycles and reproductive traits: insights from the brown algae	5
2	Priming of Marine Macrophytes for Enhanced Restoration Success and Food Security in Future Oceans. <i>Frontiers in Marine Science</i> ,8,	4-5 1
1	A partially sex-reversed giant kelp sheds light into the mechanisms of sexual differentiation in a UV sexual system	1