Susana M Coelho

List of Publications by Citations

61 papers	2,138 citations	23 h-index	45 g-index
72 ext. papers	2,655 ext. citations	8.2 avg, IF	4.46 L-index

#	Paper	IF	Citations
61	The Ectocarpus genome and the independent evolution of multicellularity in brown algae. *Nature*, **2010**, 465, 617-21	50.4	645
60	Spatiotemporal patterning of reactive oxygen production and Ca(2+) wave propagation in fucus rhizoid cells. *Plant Cell*, **2002**, 14, 2369-81	11.6	140
59	Development and physiology of the brown alga Ectocarpus siliculosus: two centuries of research. *New Phytologist*, **2008**, 177, 319-332	9.8	103
58	A haploid system of sex determination in the brown alga Ectocarpus sp. *Current Biology*, **2014**, 24, 1945-57	9.3	93
57	Complex life cycles of multicellular eukaryotes: new approaches based on the use of model organisms. *Gene*, **2007**, 406, 152-70	3.8	92
56	Life-cycle-generation-specific developmental processes are modified in the immediate upright mutant of the brown alga Ectocarpus siliculosus. *Development (Cambridge)*, **2008**, 135, 1503-12	6.6	76
55	OUROBOROS is a master regulator of the gametophyte to sporophyte life cycle transition in the brown alga Ectocarpus. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 11518-23	11.5	69
54	Sexual dimorphism and the evolution of sex-biased gene expression in the brown alga ectocarpus. *Molecular Biology and Evolution*, **2015**, 32, 1581-97	8.3	68
53	A sequence-tagged genetic map for the brown alga Ectocarpus siliculosus provides large-scale assembly of the genome sequence. *New Phytologist*, **2010**, 188, 42-51	9.8	51
52	The Algal Revolution. *Trends in Plant Science*, **2017**, 22, 726-738	13.1	48
51	Re-annotation, improved large-scale assembly and establishment of a catalogue of noncoding loci for the genome of the model brown alga Ectocarpus. *New Phytologist*, **2017**, 214, 219-232	9.8	46
50	Evolution and regulation of complex life cycles: a brown algal perspective. *Current Opinion in Plant Biology*, **2014**, 17, 1-6	9.9	41
49	Role of endoreduplication and apomeiosis during parthenogenetic reproduction in the model brown alga Ectocarpus. *New Phytologist*, **2010**, 188, 111-21	9.8	40
48	How to cultivate Ectocarpus. *Cold Spring Harbor Protocols*, **2012**, 2012, 258-61	1.2	39
47	Evolution and maintenance of haploid-diploid life cycles in natural populations: The case of the marine brown alga Ectocarpus. *Evolution; International Journal of Organic Evolution*, **2015**, 69, 1808-22	3.8	36
46	Ectocarpus: a model organism for the brown algae. *Cold Spring Harbor Protocols*, **2012**, 2012, 193-8	1.2	33
45	Convergent recruitment of TALE homeodomain life cycle regulators to direct sporophyte development in land plants and brown algae. *ELife*, **2019**, 8,	8.9	33

44	Multiple gene movements into and out of haploid sex chromosomes. *Genome Biology*, **2017**, 18, 104	18.3	31
43	Phylogeny and Evolution of the Brown Algae. *Critical Reviews in Plant Sciences*, **2020**, 39, 281-321	5.6	31
42	microRNAs and the evolution of complex multicellularity: identification of a large, diverse complement of microRNAs in the brown alga Ectocarpus. *Nucleic Acids Research*, **2015**, 43, 6384-98	20.1	28
41	High-density genetic map and identification of QTLs for responses to temperature and salinity stresses in the model brown alga Ectocarpus. *Scientific Reports*, **2017**, 7, 43241	4.9	25
40	Algal models in plant biology. *Journal of Experimental Botany*, **2011**, 62, 2425-30	7	25
39	Development of PCR-Based Markers to Determine the Sex of Kelps. *PLoS ONE*, **2015**, 10, e0140535	3.7	23
38	Algal Sex Determination and the Evolution of Anisogamy. *Annual Review of Microbiology*, **2019**, 73, 267-291	7.5	22
37	The cell-wall active mannuronan C5-epimerases in the model brown alga Ectocarpus: From gene context to recombinant protein. *Glycobiology*, **2016**, 26, 973-983	5.8	22
36	Gene silencing in Fucus embryos: developmental consequences of RNAi-mediated cytoskeletal disruption. *Journal of Phycology*, **2013**, 49, 819-29	3	20
35	The Ectocarpus IMMEDIATE UPRIGHT gene encodes a member of a novel family of cysteine-rich proteins with an unusual distribution across the eukaryotes. *Development (Cambridge)*, **2017**, 144, 409-418	6.6	18
34	Rapid turnover of life-cycle-related genes in the brown algae. *Genome Biology*, **2019**, 20, 35	18.3	17
33	Non-cell autonomous regulation of life cycle transitions in the model brown alga Ectocarpus. *New Phytologist*, **2013**, 197, 503-510	9.8	17
32	The Pseudoautosomal Regions of the U/V Sex Chromosomes of the Brown Alga Ectocarpus Exhibit Unusual Features. *Molecular Biology and Evolution*, **2015**, 32, 2973-85	8.3	16
31	Rapid Evolution of microRNA Loci in the Brown Algae. *Genome Biology and Evolution*, **2017**, 9, 740-749	3.9	15
30	Genetic crosses between Ectocarpus strains. *Cold Spring Harbor Protocols*, **2012**, 2012, 262-5	1.2	13
29	DISTAG/TBCCd1 Is Required for Basal Cell Fate Determination in. *Plant Cell*, **2017**, 29, 3102-3122	11.6	12
28	A key role for sex chromosomes in the regulation of parthenogenesis in the brown alga Ectocarpus. *PLoS Genetics*, **2019**, 15, e1008211	6	11
27	instaGRAAL: chromosome-level quality scaffolding of genomes using a proximity ligation-based scaffolder. *Genome Biology*, **2020**, 21, 148	18.3	11

26	Origin and evolution of sex-determination systems in the brown algae. *New Phytologist*, **2019**, 222, 1751-1756	9.8	10
25	Genetic Diversity in the UV Sex Chromosomes of the Brown Alga. *Genes*, **2018**, 9,	4.2	10
24	Isolation and regeneration of protoplasts from Ectocarpus. *Cold Spring Harbor Protocols*, **2012**, 2012, 361-4	1.2	10
23	Genome-wide comparison of ultraviolet and ethyl methanesulphonate mutagenesis methods for the brown alga Ectocarpus. *Marine Genomics*, **2015**, 24 Pt 1, 109-13	1.9	9
22	The origin and evolution of the sexes: Novel insights from a distant eukaryotic linage. *Comptes Rendus - Biologies*, **2016**, 339, 252-7	1.4	9
21	Histone modifications during the life cycle of the brown alga Ectocarpus. *Genome Biology*, **2021**, 22, 12	18.3	9
20	Genetic regulation of life cycle transitions in the brown alga Ectocarpus. *Plant Signaling and Behavior*, **2011**, 6, 1858-60	2.5	8
19	Brown Algal Model Organisms. *Annual Review of Genetics*, **2020**, 54, 71-92	14.5	7
18	Targeted CRISPR-Cas9-based gene knockouts in the model brown alga Ectocarpus. *New Phytologist*, **2021**, 231, 2077-2091	9.8	7
17	Cell cycles and endocycles in the model brown seaweed, Ectocarpus siliculosus. *Plant Signaling and Behavior*, **2010**, 5, 1473-5	2.5	5
16	Immunostaining of Ectocarpus cells. *Cold Spring Harbor Protocols*, **2012**, 2012, 369-72	1.2	5
15	Evolution of life cycles and reproductive traits: insights from the brown algae		5
14	: an evo-devo model for the brown algae. *EvoDevo*, **2020**, 11, 19	3.2	5
13	Evolution of life cycles and reproductive traits: Insights from the brown algae. *Journal of Evolutionary Biology*, **2021**, 34, 992-1009	2.3	5
12	Emergence of Ectocarpus as a Model System to Study the Evolution of Complex Multicellularity in the Brown Algae. *Advances in Marine Genomics*, **2015**, 153-162		4
11	Unusual Patterns of Mitochondrial Inheritance in the Brown Alga Ectocarpus. *Molecular Biology and Evolution*, **2019**, 36, 2778-2789	8.3	3
10	Histone modifications during the life cycle of the brown alga Ectocarpus		3
9	Chromosome-level quality scaffolding of brown algal genomes using InstaGRAAL, a proximity ligation-based scaffolder		2

List of Publications

8	Rapid Turnover of Life-Cycle-Related Genes in the Brown Algae		2
7	A partially sex-reversed giant kelp sheds light into the mechanisms of sexual differentiation in a UV sexual system. *New Phytologist*, **2021**, 232, 252-263	9.8	2
6	Chromatin landscape associated with sexual differentiation in a UV sex determination system.. *Nucleic Acids Research*, **2022**,	20.1	2
5	Production and Bioassay of a Diffusible Factor That Induces Gametophyte-to-Sporophyte Developmental Reprogramming in the Brown Alga. *Bio-protocol*, **2020**, 10, e3753	0.9	1
4	Biochemical characteristics of a diffusible factor that induces gametophyte to sporophyte switching in the brown alga Ectocarpus. *Journal of Phycology*, **2021**, 57, 742-753	3	1
3	Switching it up: algal insights into sexual transitions. *Plant Reproduction*, **2021**, 34, 287-296	3.9	1
2	A partially sex-reversed giant kelp sheds light into the mechanisms of sexual differentiation in a UV sexual system		1
1	An Efficient Chromatin Immunoprecipitation Protocol for the Analysis of Histone Modification Distributions in the Brown Alga Ectocarpus. *Methods and Protocols*, **2022**, 5, 36	2.5	0