

# Cecile Herve

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/789504/cecile-herve-publications-by-year.pdf>

**Version:** 2024-04-27

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.

36  
papers

2,220  
citations

20  
h-index

37  
g-index

37  
ext. papers

2,722  
ext. citations

5.8  
avg, IF

4.49  
L-index

#	Paper	IF	Citations
36	Biochemical characteristics of a diffusible factor that induces gametophyte to sporophyte switching in the brown alga <i>Ectocarpus</i> . <i>Journal of Phycology</i> , <b>2021</b> , 57, 742-753	3	1
35	Changes in Cell Wall Structure During Rhizoid Formation of <i>Silvetia babingtonii</i> (Fucales, Phaeophyceae) Zygotes. <i>Journal of Phycology</i> , <b>2021</b> , 57, 1356-1367	3	0
34	The genome of <i>Ectocarpus subulatus</i> - A highly stress-tolerant brown alga. <i>Marine Genomics</i> , <b>2020</b> , 52, 100740	1.9	14
33	Production and Bioassay of a Diffusible Factor That Induces Gametophyte-to-Sporophyte Developmental Reprogramming in the Brown Alga. <i>Bio-protocol</i> , <b>2020</b> , 10, e3753	0.9	1
32	Presence of Exogenous Sulfate Is Mandatory for Tip Growth in the Brown Alga. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 1277	6.2	1
31	Monoclonal Antibodies, Carbohydrate-Binding Modules, and Detection of Polysaccharides in Cell Walls from Plants and Marine Algae. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2149, 351-364	1.4	2
30	Double blind microarray-based polysaccharide profiling enables parallel identification of uncharacterized polysaccharides and carbohydrate-binding proteins with unknown specificities. <i>Scientific Reports</i> , <b>2018</b> , 8, 2500	4.9	10
29	Discovery and screening of novel metagenome-derived GH107 enzymes targeting sulfated fucans from brown algae. <i>FEBS Journal</i> , <b>2018</b> , 285, 4281-4295	5.7	16
28	A review about brown algal cell walls and fucose-containing sulfated polysaccharides: Cell wall context, biomedical properties and key research challenges. <i>Carbohydrate Polymers</i> , <b>2017</b> , 175, 395-408	10.3	132
27	Insoluble (1- $\beta$ ), (1- $\alpha$ )-D-glucan is a component of cell walls in brown algae (Phaeophyceae) and is masked by alginates in tissues. <i>Scientific Reports</i> , <b>2017</b> , 7, 2880	4.9	46
26	Microarray Glycan Profiling Reveals Algal Fucoidan Epitopes in Diverse Marine Metazoans. <i>Frontiers in Marine Science</i> , <b>2017</b> , 4,	4.5	3
25	Isolation of Gametes and Cultivation of the Zygotes. <i>Bio-protocol</i> , <b>2017</b> , 7, e2408	0.9	1
24	Online coupling of high-resolution chromatography with extreme UV photon activation tandem mass spectrometry: Application to the structural investigation of complex glycans by dissociative photoionization. <i>Analytica Chimica Acta</i> , <b>2016</b> , 933, 1-9	6.6	20
23	The cell-wall active mannuronan C5-epimerases in the model brown alga <i>Ectocarpus</i> : From gene context to recombinant protein. <i>Glycobiology</i> , <b>2016</b> , 26, 973-983	5.8	22
22	Arabinogalactan proteins have deep roots in eukaryotes: identification of genes and epitopes in brown algae and their role in <i>Fucus serratus</i> embryo development. <i>New Phytologist</i> , <b>2016</b> , 209, 1428-41	9.8	48
21	Dynamics of cell wall assembly during early embryogenesis in the brown alga <i>Fucus</i> . <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 6089-6100	7	20
20	Attachment, penetration and early host defense mechanisms during the infection of filamentous brown algae by <i>Eurychasma dicksonii</i> . <i>Protoplasma</i> , <b>2015</b> , 252, 845-56	3.4	11

19	Sweet and sour sugars from the sea: the biosynthesis and remodeling of sulfated cell wall polysaccharides from marine macroalgae. <i>Perspectives in Phycology</i> , <b>2015</b> , 2, 51-64	3.1	38
18	Monoclonal antibodies directed to fucoidan preparations from brown algae. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118366	3.6	40
17	High-energy photon activation tandem mass spectrometry provides unprecedented insights into the structure of highly sulfated oligosaccharides extracted from macroalgal cell walls. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 1042-9	7.8	20
16	Chemical and enzymatic fractionation of cell walls from Fucales: insights into the structure of the extracellular matrix of brown algae. <i>Annals of Botany</i> , <b>2014</b> , 114, 1203-16	4.1	164
15	<i>Chondrus crispus</i> A Present and Historical Model Organism for Red Seaweeds. <i>Advances in Botanical Research</i> , <b>2014</b> , 71, 53-89	2.2	22
14	RT-qPCR normalization genes in the red alga <i>Chondrus crispus</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e86574	3.7	8
13	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> , <b>2013</b> , 110, 5247-52	11.5	239
12	Monoclonal antibodies, carbohydrate-binding modules, and the detection of polysaccharides in plant cell walls. <i>Methods in Molecular Biology</i> , <b>2011</b> , 715, 103-13	1.4	40
11	Evolution and diversity of plant cell walls: from algae to flowering plants. <i>Annual Review of Plant Biology</i> , <b>2011</b> , 62, 567-90	30.7	455
10	Carbohydrate-binding modules promote the enzymatic deconstruction of intact plant cell walls by targeting and proximity effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 15293-8	11.5	177
9	MARINE-EXPRESS: taking advantage of high throughput cloning and expression strategies for the post-genomic analysis of marine organisms. <i>Microbial Cell Factories</i> , <b>2010</b> , 9, 45	6.4	44
8	Evidence that family 35 carbohydrate binding modules display conserved specificity but divergent function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 3065-70	11.5	89
7	Enzymatic treatments reveal differential capacities for xylan recognition and degradation in primary and secondary plant cell walls. <i>Plant Journal</i> , <b>2009</b> , 58, 413-22	6.9	68
6	Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell walls. <i>BMC Plant Biology</i> , <b>2008</b> , 8, 60	5.3	291
5	New members of the glutathione transferase family discovered in red and brown algae. <i>Biochemical Journal</i> , <b>2008</b> , 412, 535-44	3.8	18
4	Evidence for oxylipin synthesis and induction of a new polyunsaturated fatty acid hydroxylase activity in <i>Chondrus crispus</i> in response to methyljasmonate. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2007</b> , 1771, 565-75	5	32
3	NADPH oxidases in Eukaryotes: red algae provide new hints!. <i>Current Genetics</i> , <b>2006</b> , 49, 190-204	2.9	73
2	Expression profiling of <i>Chondrus crispus</i> (Rhodophyta) after exposure to methyl jasmonate. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 3869-81	7	52

1 The genome of *Ectocarpus subulatus* is highly stress-tolerant brown alga

2