

PEER-REVIEWED PUBLICATIONS

Students, support scientists and postdoctoral researchers under my supervision are underlined

79. J Miebach, D Green, M Strittmatter, C Mallinger, L Le Garrec, QY Zhang, P Foucault, C Kunz & **CMM Gachon** (2025) Importance, structure, cultivability, and resilience of the bacterial microbiota during infection of laboratory-grown *Haematococcus* spp. by the blastocladial pathogen *Paraphysoderma sedebokerense*: evidence for a domesticated microbiota and its potential for biocontrol. **FEMS Microbiology Ecology** in press.

78. J Tan, PL Tan, SW Poong, J Brakel, C Rád-Menéndez, ES Prasedya, AR Sherwood, FE Msuya, **C Gachon**, J Brodie, A Kassim & PE Lim (2024) Assessment of nine markers for phylogeny, species and haplotype identification of *Kappaphycus* species and *Eucheuma denticulatum* (Solieriaceae, Rhodophyta) **European Journal of Phycology** doi: 10.1080/09670262.2024.2396324.

77. GC Zuccarello, **CMM Gachon**, Y Badis, P Murúa, A Garvetto & GH Kim (2024) Holocarpic oomycete parasites of red algae are not *Olpidiopsis*, but neither are they all *Pontisma* or *Sirolopidium* (Oomycota). **Algae** 39: 43-50.

76. P Murúa, L Muñoz, D Bustamante, C Gauna, L Hayashi, D Robledo, M Strittmatter, P Arce, R Westermeier, DG Müller & **CMM Gachon** (2024) The first phycopathological atlas in Latin America reveals a biased underdocumented track record of algal diseases. **Algal Research** doi: 10.1016/j.algal.2024.103604.

75. P Murúa, L Muñoz, Y Badis, P van West & **CMM Gachon** (2024) Prevalence and seasonal variation of *Olpidiopsis porphyrae* (Oomycota) infecting red algal Bangiales from the Southern Pacific. **European Journal of Phycology**, doi: 10.1080/09670262.2024.2383980.

74. ASP Moreira, D Gaspar, SS Ferreira, A Correia, M Vilanova, MM Perrineau, PD Kerrison, **CMM Gachon**, MR Domingues, MA Coimbra, FM Coreta-Gomes & C Nunes (2023) Water-Soluble *Saccharina latissima* polysaccharides and relation of their structural characteristics with *in vitro* immunostimulatory and hypocholesterolemic activities.

73. S Sebök, M Strittmatter, **CMM Gachon**, D Hanelt (2023) Preliminary Examinations of Phenotypical Changes in Land-Based Long-Term Tumble Culture of *Palmaria palmata*. **Phycology** 3: 503-519.

72. RV Dumilag, BA Crisostomo, ZZA Aguinaldo, AO Lluisma, **CMM Gachon**, MY Roleda (2023) Genetic diversity of *Kappaphycus malesianus* (Solieriaceae, Rhodophyta) from the Philippines. **Aquatic Botany** doi: 10.1016/j.aquabot.2023.103649.

71. A Garvetto, P Murúa, M Kirchmair, W Salvenmoser, M Hittorf, S Ciaghi, SL Harikrishnan, **C Gachon**, J Burns, S Neuhauser. (2023) Phagocytosis underpins the biotrophic lifestyle of intracellular parasites in the class Phytomyxea (Rhizaria). **New Phytologist** doi: 10.1111/nph.18828.

70. P Murúa, A Garvetto, S Egan & **CMM Gachon** (2023) The re-emergence of phycopathology: when algal biology meets ecology and biosecurity. **Annual Reviews of Phytopathology** doi: 10.1146/annurev-phyto-020620-120425.

69. J Tan, P-L Tan, SW Poong, J Brakel, **C Gachon**, J Brodie, A Sade, PE Lim (2022) Genetic differentiation in wild *Kappaphycus* Doty and *Eucheuma* J. Agardh (Solieriaceae, Rhodophyta) from East Malaysia reveals high inter- and intraspecific diversity with strong biogeographic signal. **Journal of Applied Phycology** 34:2719-2733.

68. M Strittmatter, P Murúa, P Arce, MM Perrineau, **CMM Gachon** (2022) My Seaweed Looks Weird: a community web portal to accelerate pathogen discovery in seaweeds. **Applied Phycology**. 3: 300-305.

67. PL Tan, SW Poong, J Tan, J Brakel, **C Gachon**, J Brodie, A Sade, PE Lim (2022) Assessment of genetic diversity within eucheumatoid cultivars in east Sabah, Malaysia. **Journal of Applied Phycology** doi: 10.1007/s10811-021-02608-8.
66. KA Capistrant-Fossa, HG Morrison, AH Engelen, CTC Quigley, A Morozov, EA Serrão, JA Brodie, **CMM Gachon**, Y Badis, P Tester, W Litaker, LE Johnson, G Hoarau, H Abreu, L Stearns, SH Brawley (2021) Examining microbiomes of the foundational intertidal alga *Fucus vesiculosus* over its biogeographic range. **Journal of Phycology** doi: 10.1111/jpy.13194.
65. A Fort, M McHale, K Cascella, P Potin, MM Perrineau, P Kerrison, E da Costa, R Calado, M Domingues, I Costa Azevedo, I Sousa-Pinto, **C Gachon**, A van der Werf, W de Visser, J Beniers, H Jansen, M Guiry, R Sulpice (2021) Exhaustive reanalysis of barcode sequences from public repositories highlights ongoing misidentifications and impacts taxa diversity and distribution: a case study of the Sea Lettuce. **Molecular Ecology Resources** doi:10.1111/1755-0998.13453
64. Y Badis, D Scornet, M Harada, C Caillard, O Godfroy, M Raphalen, **CMM Gachon**, SM Coelho, T Motomura, C Nagasato & JM Cock (2021) Targeted CRISPR-Cas9-based gene knockouts in the model brown alga *Ectocarpus*. **New Phytologist** doi:10.1111/nph.17525
63. J Brakel, R Sibonga, R Dumilag, V Montalescot, I Campbell, E Cottier-Cook, G Ward, V Le Masson, T Liu, F Msuya, J Brodie, PE Lim, **CMM Gachon** (2021) Exploring, harnessing, and conserving genetic resources towards a sustainable seaweed aquaculture. **Plants, People, Planet** doi: 10.1002/ppp3.10190.
62. A Tourneroche, R Lami, G Burgaud, I Domart-Coulon, W Li, **CMM Gachon**, M Gèze, D Boeuf, S Prado (2020) The bacterial and fungal microbiota of *Saccharina latissima* (Laminariales, Phaeophyceae). **Frontiers in Marine Science** 10.3389/fmars.2020.587566.
61. M Vallet, YM Chong, A Tourneroche, G Genta-Jouve, C Hubas, R Lami, **CMM Gachon**, T Klochkova, KG Chan, S Prado (2020) Novel α -Hydroxy γ -Butenolides of Kelp Endophytes Disrupt Bacterial Cell-to-Cell Signaling. **Frontiers in Marine Science** doi: 10.3389/fmars.2020.00601/
60. M Strittmatter, C Rad-Menéndez, **CMM Gachon** (2020) Cryopreservation of the parasitic and saprophytic life stage of the blastocladial pathogen *Paraphysoderma sedebokerense* infecting the green algae *Haematococcus pluvialis* and *Scenedesmus dimorphus*. **Phycologia** doi: 10.1080/00318884.2020.1827825.
59. Y Nair Kumar, SW Poong, **CMM Gachon**, J Brodie, PE Lim (2020) Physiological and biochemical responses of *Kappaphycus alvarezii* (Rhodophyta) towards elevated temperature. **PLoS1**, doi: 10.1371/journal.pone.0239097.
58. J Badstöber, **CMM Gachon**, J Ludwig-Müller, AM Sandbichler, S Neuhauser (2020) Demystifying biotrophs FISHing for mRNAs to decipher plant and algal pathogen-host interactions at the single cell level. **Scientific Reports** 10: 14269.
57. Y Badis, JW Han, TA Klochkova, **CMM Gachon**, GH Kim (2020) The gene repertoire of *Pythium porphyrae* suggests a reformed plant pathogen tackling red algae. **Algae** 35:133-144.
56. SM Dittami, [..], **CMM Gachon**, [..], C Leblanc, Fabrice Not (2020) A community perspective on the concept of marine holobionts: state-of-the-art, challenges, and future directions. **PCI Ecology**. Available at *PeerJ Preprints* doi: 10.7287/peerj.preprints.27519v3.
55. JP Monteiro, F Rey, T Melo, A Moreira, J-F Arbona, J Skjermo, S Forbord, J Funderud, D Raposo, PD Kerrison, MM Perrineau, **CMM Gachon**, P Domingues, R Calado, MR Domingues (2020) *Saccharina latissima* from different culture locations display unique lipidomic signatures that can be used to trace their geographic origin. **Biomolecules**, 10: 107.
54. B Calmes, M Strittmatter, B Jacquemin, MM Perrineau, C Rousseau, Y Badis, JM Cock, C Destombe, M Valero, **CMM Gachon** (2020) Parallelisable non-invasive biomass, fitness and growth measurement of macroalgae and other protists with nephelometry. **Algal Research** 46: 101762.
53. P Murúa, DG Müller, M Etemadi, P van West, **CMM Gachon** (2020) Host and pathogen autophagy are central to the inducible local defences and systemic response of the giant kelp *Macrocystis pyrifera* against an oomycete pathogen. **New Phytologist** doi: 10.1111/nph.16438.

52. G Ward, J Faisan Jr , E Cottier-Cook , **CMM Gachon**, A Hurtado , PE Lim, I Matoju, F Msuya, J Brodie (2019) A review of reported seaweed diseases and pests in aquaculture in Asia. **Journal of the World Aquaculture Society**, doi: 10.1111/jwas.12649.
51. Y Badis, TA Klochkova, J Brakel, P Arce, M Ostrowski, SG Tringe, GH Kim, **CMM Gachon** (2019) Hidden diversity in the oomycete genus *Olpidiopsis* is a potential hazard to red algal cultivation and conservation worldwide. **European Journal of Phycology**, doi: 10.1080/09670262.2019.1664769.
50. A Garvetto, MM Perrineau, M Dreßler-Allame, E Bresnan, **CMM Gachon** (2020) *Ectrogella* parasitoids of the diatom *Licmophora* sp. are polyphyletic. **Journal of Eukaryotic Microbiology**, 67 (1), 18-27.
49. A Garvetto, Y Badis, MM Perrineau, C Rad-Menéndez, E Bresnan, **CMM Gachon** (2019) Chytrid infecting the bloom-forming marine diatom *Skeletonema* sp.: morphology, phylogeny and distribution of a novel species within the Rhizophydiales. **Fungal Biology** doi:10.1016/j.funbio.2019.04.004.
48. G-H Kim, S-H Im, TA Klochkova, D-J Lee, **CMM Gachon** (2019) Genetic toolkits of the red alga *Pyropia tenera* against the three most common diseases in *Pyropia* farms. **Journal of Phycology**. 55: 801-815.
47. M Vallet, M Strittmatter, P Murúa, S Lacoste, J Dupont, C Hubas, G Genta-Jouve, **CMM Gachon**, G-H Kim, S Prado (2018) Chemically-mediated tripartite interactions between macroalgae, their fungal holobiont, and protistan pathogens. **Frontiers in Microbiology** 9, 3161.
46. M Gerphagnon, R Agha, D Martin-Creuzburg, A Bec, F Perrière, C Rad-Menéndez, **CMM Gachon**, J Wolinska. (2018) Comparison of sterol and fatty acid profiles of chytrids and their hosts reveals trophic upgrading of nutritionally inadequate phytoplankton by fungal parasites. **Environmental Microbiology**, doi: 10.1111/1462-2920.14489.
45. A Garvetto, E Nézan, Y Badis, G Bilien, P Arce, E Bresnan, **CMM Gachon**, R Siano (2018) Novel widespread oomycetes parasitising diatoms, including the toxic genus *Pseudo-nitzschia*: genetic, morphological and ecological characterisation. **Frontiers in Microbiology** doi: 10.3389/fmicb.2018.02918.
44. C Rad-Menéndez, M Gerphagnon, A Garvetto, P Arce, Y Badis, T Sime-Ngando, **CMM Gachon**. (2018) Rediscovering *Zygorhizidium affluens* Canter - Molecular taxonomy, infectious cycle, and cryopreservation of a chytrid infecting the bloom-forming diatom *Asterionella formosa*. **Applied & Environmental Microbiology**, 84 (23), e01826-18.
43. O De Clerck , SM Kao, [...], **CMM Gachon**, [...] J Bothwell (37 authors, 2018) The sea lettuce (*Ulva*) genome insights into the evolution of multicellularity in green seaweeds. **Current Biology**. doi: 10.1016/j.cub.2018.08.015
42. Y Badis, TA Klochkova, M Strittmatter, A Garvetto, P Múrua, JC Sanderson, G-H Kim, **CMM Gachon** (2018) Novel species of the oomycete *Olpidiopsis* potentially threaten European red algal cultivation. **Journal of Applied Phycology** doi: 10.1007/s10811-018-1641-9.
41. C Allewaert, N Hiegle, M Strittmatter, R De Blok, LT Guerra, **CMM Gachon**, W Vyverman (2018) Genetic and life history determinants of the susceptibility of the blood alga *Haematococcus* to infection by *Paraphysoderma sedebokerense* (Blastocladiomycota). **Algal Research** 31: 282–290.
40. J Brodie, SG Ball, F-Y Bouget, CX Chan, O De Clerck, JM Cock, **CMM Gachon**, AR Grossman, T Mock, J Raven, M Saha, AG Smith, A Vardi, HS Yoon, D Bhattacharya (2017) Biotic interactions as drivers of algal origin and evolution. **New Phytologist** doi: 10.1111/nph.14760.
39. A Schwelm, J Badstöber, S Bulman, N Desoignies, M Etemadi, RE Falloon, **CMM Gachon**, A Legreve, J Lukeš, U Merz, A Nenarokova, M Strittmatter, BK Sullivan, S Neuhauser (2018) Not in your usual Top 10 – protists that infect plant and algae. **Molecular Plant Pathology** 19:1029-1044.
38. SH Brawley, N Blouin, [...], Y Badis, [...], **CMM Gachon**, [...] J Stiller, AR Grossman, S Prochnik (50 authors, 2017) Thriving in a tough environment: Insights into the red algae from the genome of *Porphyra umbilicalis* (Bangiophyceae, Rhodophyta). **PNAS** doi: 10.1073/pnas.1703088114.

37. J Brodie, CX Chan, O De Clerck, JM Cock, SM Coelho, **CMM Gachon**, AR Grossman, T Mock, J Raven, AG Smith, HS Yoon, D Bhattacharya (2017) The Algal Revolution ***Trends in Plant Science*** doi:10.1016/j.tplants.2017.05.005.
36. Valero M, Guillemin M-L, Destombe C, Jacquemin B, **Gachon CMM**, Badis Y, Buschmann AH, Camus C, Faugeron S (2017) Perspectives on domestication research for sustainable seaweed aquaculture ***Perspectives in Phycology*** doi: 10.1127/pip/2017/0066.
35. **Gachon CMM**, Strittmatter M, Badis Y, Fletcher KI, van West P, Müller DG (2017) Pathogens of brown algae: culture studies of *Anisulpidium ectocarpii* and *A. rosenvingei* reveal that the Anisulpidiales are uniflagellated oomycetes. ***European Journal of Phycology*** doi: 10.1080/09670262.2016.1252857.
34. Fletcher KI, van West P, **Gachon CMM** (2016) Nonagonal cadherins: a new protein family found within the Stramenopiles. ***Gene*** **593**: 64-75.
33. Strittmatter M, Grenville-Briggs L, Breithut L, van West P, **Gachon CMM**, Küpper FC (2016) Infection of the brown alga *Ectocarpus siliculosus* by the oomycete *Eurychasma dicksonii* induces oxidative stress and halogen metabolism. ***Plant Cell & Environment*** **39**: 259–271.
32. Strittmatter M, Guerra T, Silva J, **Gachon CMM** (2016) A new flagellated dispersion stage in *Paraphysoderma sedebokerense*, a pathogen of *Haematococcus pluvialis*. ***Journal of Applied Phycology*** **28**: 1553-1558.
31. Gerphagnon M, Macarthur DJ, Latour D, **Gachon CMM**, Van Ogtrop F, Gleason FH, Sime- Ngando T (2015) Microbial players involved in the decline of filamentous and colonial cyanobacterial blooms with a focus on fungal parasitism. ***Environmental Microbiology*** **17**:2573-2587.
30. Lipinska A, Cormier A, Luthringer R, Peters AF, Corre E, **Gachon CMM**, Cock JM, Coelho SM (2015) Sexual dimorphism and the evolution of sex-biased gene expression in the brown alga *Ectocarpus*. ***Molecular Biology & Evolution*** **32**: 1581-1597.
29. Loureiro R, **Gachon CMM**, Rebours C (2015) Promises and challenges of seaweed domestication at an unprecedented pace. ***New Phytologist*** doi: 10.1111/nph.13278.
28. Tsirigoti A, Beakes GW, Hervé C, **Gachon CMM**, Katsaros C. (2014) Attachment, penetration and early host defense mechanisms during the infection of filamentous brown algae by *Eurychasma dicksonii*. ***Protoplasma***, doi: 10.1007/s00709-014-0721-1.
27. **Gachon CMM**, Heesch S, Küpper FC, Achilles-Day UEM, Campbell CN, Clarke A, Dorrell RG, Field J, Gontarek S, Rád-Menendez C, Saxon RJ, Veszelovski A, Guiry MD, Gharbi K, Blaxter M, Day JG (2013) The CCAP KnowledgeBase: linking protistan and cyanobacterial biological resources with taxonomic and molecular data. ***Systematics & Biodiversity*** **11**: 407-413.
26. Tsirigoti A, Küpper FC, **Gachon CMM**, Katsaros C (2013) Filamentous brown algae infected by the marine, holocarpic oomycete *Eurychasma dicksonii*: first results on the organization and the role of cytoskeleton in both host and parasite. ***Plant Signaling & Behavior*** doi: 10.4161/psb.26367.
25. Tsirigoti A, Küpper FC, **Gachon CMM**, Katsaros C (2013) Cytoskeleton organization during the infection of three brown algal species *Ectocarpus siliculosus*, *Ectocarpus crouaniorum* and *Pylaiella littoralis* by the intracellular, marine oomycete *Eurychasma dicksonii*. ***Plant Biology*** **16**: 272-281.
24. Collén J, [..], **Gachon CMM**, [..] Zambounis A [..], Wincker P, Boyen C (2013) Genome structure and metabolic features in the red seaweed *Chondrus crispus* shed light on the evolution of the Archaeplastida. ***Proc. Natl. Ac. Sci. USA***. **110**: 5247–5252.
23. Strittmatter M, **Gachon CMM**, Müller DG, Kleinteich J, Heesch S, Tsirigoti A, Katsaros C, Kostopoulou M, and Küpper FC (2013) New records of intracellular eukaryotic pathogens challenging brown macroalgae in the East Mediterranean Sea, with emphasis on LSU rRNA data of the oomycete pathogen *Eurychasma dicksonii*. ***Diseases of Aquatic Organisms*** **104**: 1–11.
22. Zambounis A, Strittmatter M & **Gachon CMM** (2013) Investigations of chronic stress and disease resistance in the genome model marine seaweed *Ectocarpus siliculosus*. ***Aquatic Botany*** **104**: 147–152.
21. Wawra S, Agacan M, Boddey JA, Davidson I, **Gachon CMM**, Zanda M, Grouffaud S, Whisson SC, Birch PRJ, Porter AJ, van West P (2012) The avirulence protein 3a (AVR3a) from the potato

pathogen *Phytophthora infestans*, forms homodimers through its predicted translocation region and does not specifically bind phospholipids. **Journal of Biological Chemistry** 287: 38101-38109.

20. Zambounis A, Elias M, Sterck L, Maumus F & **Gachon CMM** (2012) Highly dynamic exon shuffling in candidate pathogen receptors... What if brown algae were capable of adaptive immunity? **Molecular Biology and Evolution** 29: 1263-1276.

19. Gleason FH, Küpper FC, Amon JP, Picard K, **Gachon CMM**, Sime-Ngando T, Marano AV and Lilje O (2011) Zoospore true fungi in marine ecosystems: a review. **Marine and Freshwater Research** 62: 383-393

18. Evariste E, **Gachon CMM**, Callow ME, Callow JA. (2012) Development and characteristics of an adhesion bioassay for ectocarpoid algae **Biofouling** 28: 1-14.

17. Grenville-Briggs L*, **Gachon CMM***, Strittmatter M, Sterck L, Küpper FC, van West P (2011) A molecular insight into algal-oomycete warfare: cDNA analysis of *Ectocarpus siliculosus* infected with the basal oomycete *Eurychasma dicksonii* **PLoS1** 6: e24500. (*: joint contribution)

16. Robideau GP, de Cock AWAM, [...], **Gachon CMM**, [...], Ristaino JB, Lévesque CA (2011) DNA barcoding of oomycetes with cytochrome c oxidase subunit I (COI). **Molecular Ecology Resources**. doi 10.1111/j.1755-0998.2011.03041.x

15. Katsaros CI, Varvarigos V, **Gachon CMM**, Brand J, Motomura T, Nagasato C, and Küpper FC. (2011) Comparative immunofluorescence and ultrastructural analysis of microtubule organization combined with SSU/ITS sequencing in *Uronema* sp., *Klebsormidium flaccidum*, *K. subtilissimum*, *Stichococcus bacillaris* and *S. chloranthus* (Chlorophyta) **Protist** 162: 315-331.

14. Lévesque CA, [...], **Gachon CMM**, [...], Buell CR (2010) Genome sequence of the necrotrophic plant pathogen, *Pythium ultimum*, reveals original pathogenicity mechanisms and effector repertoire. **Genome Biology** 11: R73.

13. **Gachon CMM**, Sime-Ngando T, Strittmatter M, Chambouvet A, Kim GH (2010) Algal diseases: spot light on a black box. **Trends in Plant Science** 15: 633-640.

12. Cock JM, [...], **Gachon CMM**, [...], Strittmatter M, [...], Wincker P (2010) The *Ectocarpus* genome and the independent evolution of multicellularity in the brown algae. **Nature** 465: 617-621.

11. **Gachon CMM**, Strittmatter M, Müller, DG, Kleinteich J, Küpper FC (2009) Detection of differential host susceptibility to the marine oomycete pathogen *Eurychasma dicksonii* by real-time PCR: Not all algae are equal. **Applied & Environmental Microbiology** 75: 322-328.

10. Müller DG, **Gachon CMM**, Küpper FC (2008) Axenic clonal cultures of filamentous brown algae: initiation and maintenance. **Cahiers de Biologie Marine** 49: 59-65.

9. Sekimoto S, Beakes GW, **Gachon CMM**, Müller DG, Küpper FC, Honda D (2008) The development, ultrastructural cytology, and molecular phylogeny of the basal oomycete *Eurychasma dicksonii*, infecting the filamentous phaeophyte algae *Ectocarpus siliculosus* and *Pylaiella littoralis*. **Protist** 159: 299-318.

8. **Gachon CMM**, Day JG, Campbell CN, Pröschold T, Saxon RG, Küpper FC (2007) The Culture Collection for Algae and Protozoa (CCAP): a biological resource for protistan genomics. **Gene** 406: 51-57.

7. **Gachon CMM**, Küpper H, Küpper FC, Setlik I (2006) Single-cell chlorophyll fluorescence kinetic microscopy of *Pylaiella littoralis* (Phaeophyceae) infected by *Chytridium polysiphoniae* (Chytridiomycota). **European Journal of Phycology** 41: 395-403.

6. Langlois-Meurinne M, **Gachon CMM**, Saindrenan P (2005). Pathogen-responsive expression of glycosyltransferase genes *UGT73B3* and *UGT73B5* is necessary for resistance to *Pseudomonas syringae* pv. *tomato* in *Arabidopsis*. **Plant Physiology** 139: 1890-1901.

5. **Gachon CMM**, Langlois-Meurinne M, Henry Y, Saindrenan P (2005) Transcriptional co-regulation of secondary metabolism enzymes in *Arabidopsis*: functional and evolutionary implications. **Plant Molecular Biology** 58: 229-245.

4. **Gachon CMM**, Langlois-Meurinne M, Saindrenan P (2005) Plant secondary metabolism glycosyltransferases: the emerging functional analysis. **Trends in Plant Science** 10: 542-549.

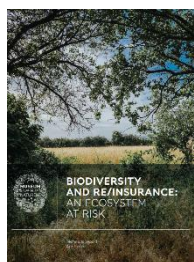
3. Gachon C, Mingam A, Charrier B (2004) Real-time PCR: what relevance to plant studies? *Journal of Experimental Botany* **55**: 1445-1454.

2. Gachon C, Baltz R, Saindrenan P (2004) Over-expression of a scopoletin glucosyltransferase in *Nicotiana tabacum* leads to precocious lesion formation during the hypersensitive response to tobacco mosaic virus but does not affect virus resistance. *Plant Molecular Biology* **54**: 137-146.

1. Gachon C and Saindrenan P (2004) Real-time PCR monitoring of fungal development in *Arabidopsis thaliana* infected by *Alternaria brassicicola* and *Botrytis cinerea*. *Plant Physiology and Biochemistry* **42**: 367-371.

BOOK CHAPTERS AND MISCELLANEOUS CONTRIBUTIONS

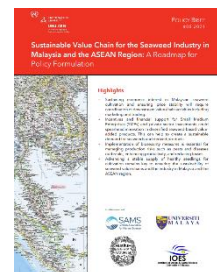
A13. J Tan, SW Poong, C Gachon, J Brodie and PE Lim. ***The role of molecular marker technology in advancing eucheumatoid research*** in Tropical Seaweed Cultivation, Phyconomy – Proceedings of Tropical Phyconomy Development. (2024) Ed by AQ Hurtado and A Critchley, Springer. doi: 10.1007/978-3-031-47806-2_3



A12. Biodiversity and Re/Insurance: an ecosystem at risk. Technical report, April 2021. Edited by Jules Chandellier, Marine Malacain, Nirmala Séon-Massin, Magali Gorce & Vincent Hulin. Member of the Scientific Advisory Board.

A11. PE Lim, SW Poong, C Kambey, J Tan, A Asri, N Nagabhatla, AM Nor, A Kassim, V Le Masson, L Shaxson, J Brodie, **CMM Gachon**, EJ Cottier-Cook, P De Lombaerde (2021) ***Sustainable Value Chain for the Seaweed Industry in Malaysia and the ASEAN Region: A Roadmap for Policy Formulation.***

United Nations University Institute on Comparative Regional Integration Studies and Scottish Association for Marine Science. Policy Brief. ISBN 978-92-808-9137-9.



A10. Cottier-Cook EJ, Nagabhatla N, Asri A, Beveridge M, Bianchi P, Bolton J, Bondad-Reantaso MG, Brodie J, Buschmann A, Cabarubias J, Campbell I, Chopin T, Critchley A, De Lombaerde P, Doumeizel V, **Gachon CMM**, Hayashi L, Hewitt CL, Huang J, Hurtado AQ, Kambey C, Kim GH, Le Masson V, Lim PE, Liu T, Malin G, Matoju I, Montalescot V, Msuya FE, Potin P, Puspita M, Qi Z, Shaxson L, Sousa Pinto I, Stentiford GD, Suyu J, Yarish C. (2021). ***Ensuring the sustainable future of the rapidly expanding global seaweed aquaculture industry – a vision.*** United Nations University Institute on Comparative Regional Integration Studies & Scottish Association for Marine Science. Policy Brief. ISBN 978-92-808-9135-5.

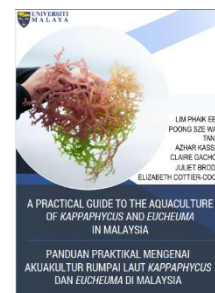
A9. A practical guide to the aquaculture of Kappaphycus and Eucheuma in Malaysia. (2021) PE Lim, SW Poong, J Tan, K Azham, **C. Gachon**, J Brodie, E Cottier-Cook. Institute of Ocean and Earth Sciences (IOES), Universiti Malaya. eISBN: 978-967-2625-70-4.

A8. PEGASUS - PHYCOMORPH European Guidelines for a Sustainable Aquaculture of Seaweeds, Edited by M Barbier, B Charrier, R Araujo, SL Holdt, B Jacquemin, C Rebours, COST Action FA1406.



A7. EJ Cottier-Cook, N Nagabhatla, Y Badis, M Campbell, T Chopin, W Dai, J Fang, P He, CL Hewitt, GH Kim, Y Huo, Z Jiang, G Kema, X Li, F Liu, H Liu, Y Liu, Q Lu, Q Luo, Y Mao, FE Msuya, C Rebours, H Shen, GD Stentiford, C Yarish, H Wu, X Yang, J Zhang, Y Zhou, **CMM Gachon**. (2016) ***“Safeguarding the future of the global seaweed aquaculture industry”***. Policy brief, SAMS-UNU INWEH.

A6. The Ectocarpus Genome Consortium (multi-author contribution). (2012) ***“The Ectocarpus genome and brown algal genomics”***, in *Advances in Botanical Research*. Ed. by G. Piganeau.



A5. Marano AV, Pires-Zottarelli CLA, de Souza JI, Glockling S, Leañó E, **Gachon CMM**, Strittmatter M, Gleason FH. (2012) ***“Hyphochytriomycota, Oomycota and Perkinsozoa”*** in “Marine Fungi”, Ed. by G. Jones.

A4. Strittmatter M, **Gachon CMM**, Küpper FC ***“Ecology of lower oomycetes”***. (2009). In *“Oomycete Genetics and Genomics: Diversity, Plant and Animal Interactions, and Toolbox.”* Ed. by S. Kamoun & K. Lamour.

A3. Mingam A, **Gachon C**, Charrier B (2004). ***Advances in Plant Physiology*** Ed. by A. Hemantaranjan. 7: 423-458.

A2. **Gachon C** and Saindrenan P (2005). ***“Quantification par PCR en temps réel du développement des champignons Alternaria brassicicola et Botrytis cinerea sur Arabidopsis thaliana.”*** *Cahier des Techniques de l'INRA* Special issue pp 127-129.

A1. Editing of three chapters of a scientific outreach encyclopedia: *Règne végétal*, Ed. Bordas (1998).