

**Biologie Marine  
Cellulaire  
Moléculaire  
Management**

**EXPERIENCE**

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**Recherche/Direction**

- 2020 - ....** **Directeur scientifique de la société ALGAMA.** Société de valorisation des Algues.
- 2015 - 2020** **Directeur de la société Greensea.** Société spécialisée dans la culture et la valorisation des Algues, basée en méditerranée.
- 2014 - 2015** **Directeur de l'Unité (DR1)** Biotechnologies et Ressources Marines – trois laboratoires 45 permanents Ifremer Nantes.
- 2005 - 2015** **Directeur (DR2) du laboratoire** Physiologie et Biotechnologie des Algues du département BRM, Ifremer Nantes.
- 2001- 2004** **Chercheur CR1** à l'Institut Français de Recherche et d'Exploitation de la Mer (**IFREMER**) au sein du laboratoire **Production et Biotechnologie des Algues** du département Valorisation des Produits de la mer. **Responsable du groupe « Biologie des algues ».** Recherche de phénotypes transcriptionnels en réponse aux variations métaboliques chez quelques espèces phytoplanctoniques. Stratégie "usine cellulaire" chez les microalgues.
- 1993- 2001** **Chercheur CR2** au sein de l'unité mixte de recherche **DRIM** (Défense et Résistance chez les Invertébrés Marins) Université de Montpellier II, IFREMER/CNRS. Thématique: Etude des mécanismes de défense mis en jeu par les invertébrés d'importance commerciale, dans une optique de contrôle des maladies qui affectent les cheptels. Mise au point des techniques physiques d'introduction d'ADN, recherche de gènes et l'étude de leurs systèmes de régulation (Stratégie E.S.T.). Relations (formalisées par contrat) avec un laboratoire espagnol, un laboratoire chilien et 2 laboratoires américains.
- 1988-1992** **Technicien Supérieur** à l'Institut Français de Recherche et d'Exploitation de la Mer (IFREMER) au sein du Laboratoire de Pathologie et de Génétique des Invertébrés Marins.  
Thématique:  
- Polyploïdisation de mollusques d'intérêt aquacole.  
Expertise : (Manipulation du stock chromosomique).  
- Maîtrise des techniques de production aquacole.  
Expertise: Culture d'algues, éclosion, contact avec l'industrie.

## Production

- 1985-1987** **Directeur Technique** dans une éclosérie spécialisée dans l'huître plate (Société HEPC, Carantec, 29, regroupement de quatre coopératives ostréicoles).
- 1984-....** **Technicien** responsable de la salle d'algues (phytoplancton) dans cette entreprise.

## ENSEIGNEMENT

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### PhD direct supervising

Aude carlier	<b>2004-2007</b>	Development of a new production system for therapeutic proteins based on microalgal engineering.
Vitalia henriquez	<b>2004-2006</b>	Identification of chloroplastic sequences in two marine microalgae: construction of vectors for specific genetic expression
Benoit serive	<b>2009-2012</b>	Research and production of metabolites in photosynthetic microorganisms of interest to the field of dynamic photochemotherapy.
M. Le Chevanton	<b>2009-2012</b>	Production of carbon reserves with mixed microalgae–bacteria based systems
Gaël bougaran	<b>2010-2014</b>	La co-limitation par l'azote et le phosphore : étude des mécanismes chez la microalgue <i>Tisochrysis lutea</i>
Judith Rumin	<b>2012-2015</b>	Non gmo enhancement of microalgae yields.
S. thiriet-ruppert	<b>2013-2017</b>	Study of transcription factors involved in lipid accumulation in response to nitrogen deficiency in <i>tisochrysis lutea</i> microalga.
Matthieu Garnier.	<b>2013-2016</b>	Carbon allocation and nitrogen metabolism in the haptophyt <i>Tisochrysis lutea</i> .

### Master

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### Master supervisor

Le Chevanton	Myriam	Coulombier	Noémie	Gajdasik	Dominika
Jubeau	Sébastien	Arlot	Cyrielle	Mahkovec	Magalie
Jauffrais	Thierry	Guillard	Marine	Gajdasik	Dominika
Pommier	Jean-françois	Touze	François	Douette	Claire
Salomez	Mélanie	Adrien	Amandine		
Fernandez	Jérémy	Manca	Michaël		

### Cours en Université

Master: Bioprocess And Marine Biologie Université de Nantes : 2005-2010

Master:: Biochimie-Génie biotechnologique en agro-alimentaire Université de La Rochelle – 2005-2014

## FORMATION

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- 2005**     **Habilitation à Diriger les Recherches.** Université de Nantes.
- 1997**     **Thèse de Doctorat** de l'Ecole Pratique des Hautes Etudes. Section Sciences de la vie et de la terre. Spécialité: Océanologie.  
**Sujet:** Transfert de gène chez des mollusques bivalves: Constructions, transfections et analyses fonctionnelles de vecteurs d'expression.
- 1992**     **D.E.A.** Ecole Pratique des Hautes Etudes (équivalence)  
**Sujet:** Mise au point de méthodologies de manipulations embryonnaires de mollusques bivalves. Application en génétique et pathologie infectieuse.

## LANGUES

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- Allemand** Secrétaire interprète pendant un an au département projet d'une société d'ingénierie basée à Hambourg, Allemagne;  
**Diplôme d'Allemand** pour étranger (ZMP), mention très bien, du Goethe Institute (Niveau **C1**).  
<http://www.goethe.de/z/pruef/enpangeb.htm#zmp>
- Anglais** Séjour d'un an dans le groupe de recherche du Pr. Maclean à Southampton (G.B.). **925/990 points au TOEIC = C2** (Test Of English for International Communication <http://www.toeic-france.com> )
- Espagnol** débutant

## DIVERS

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### Ex or Board Member de:

Expert by the Ademe (French Saving Energy Agency)  
Expert by the ANR (Agence National pour la Recherche)  
Member of the steering Comitee by the ANR  
Evaluator for the University of Nantes  
Evaluator for the University of Hong Kong  
Evaluator for KAUST  
Expert by the European Commission  
Expert by the SBIR (USA)  
Expert by the Fond de Recherche Nature et Technology of Quebec

**Prix:**                Prix de la création d'entreprise du réseau "Entreprendre"  
                          Prix régional INPI de l'innovation

### Associations professionnelles :

**EABA** : European Algae Biomass Association: Past president; Vice president  
**ABO** : American Algae Biomass Organisation: Membre du Board of directors  
**ESMB** : European Society of Marine Biotechnology: Membre du CA  
**Respect Ocean**: Membre du CA

## BREVETS:

- WO2020221971 (A1), FR3095658 (A1) cosmetic care method based on photoactive extracts of microalgae 2020. Foussé, C., Berthon J.-P., Cadoret J.-P
- PCT/FR2010/050008. WO2010084274 (A1) Procédé de fixation de CO<sub>2</sub> et de traitement de déchets organiques par couplage d'un système de digestion anaérobie et d'un système de production de microorganismes photosynthétiques. 2009 Method for the Fixation of CO<sub>2</sub> and for Treating Organic Waste by Coupling an Anaerobic Digestion System and a Phytoplankton Microorganism Production System. Bernard O., Bougaran G., Cadoret J.-P. Kaas R., Latrille E., Sialve B., Steyer J.-P.
- WO 2009101160 A1, PCT/EP2009/051672 EU 0830090.1 CA2715107A1, EP2090648A1, EP2257618A1, US20110045533 Production of glycosylated polypeptides in microalgae. 2009. Cadoret J.-P., Carlier A., Burel C., Maury F., Bardor M., Lerouge P..
- EU 10007813.8., EP 2412815 EP2598648 (A1) EP2412815A1, WO2012013337A1 N-Glycosylation in transformed *Phaeodactylum tricornutum*. 2010. Bardor Muriel; Louvet Romain; Saint-Jean Bruno; Burel Carole; Balet Berangere; Cadoret Jean-Paul; Lerouge Patrice; Michel Remy; Carlier Aude+
- EP2660323 (A1) Production of secreted therapeutic antibodies in *phaeodactylum tricornutum* microalgae Carlier Aude; Michel Remy; Lejeune Alexandre; Cadoret Jean-Paul Ep2660323 (A1)
- EP10013808.0 EP2630243A1, US20130244265, WO2012052170A1 Secretion of recombinant polypeptides in the extracellular medium of diatoms, 2010. Lejeune A., Michel R., Cadoret J.-P., Carlier A.
- EP10016162.9 EP2658980 (A1), WO2012089342 (A1) Production of high mannose glycosylated proteins stored in the plastid of microalgae 2010. Carlier A., Michel R., Dufourmantel N., Cadoret J.-P., Lejeune A.
- EP 11006712.1. WO2013023786 (A1) Novel *isochrysis* sp tahitian clone and uses therefore 2011 Rouxel C., Bougaran G., Doulin-Grouas S., Dubois N., Cadoret J.-P.

## Index citation

<http://scholar.google.fr/citations?hl=fr&user=Nrn8QtEAAAA>

<https://www.linkedin.com/in/jean-paul-cadoret-45ab5a15?trk=hp-identity-name>

<https://www.researchgate.net/profile/Jean-Paul-Cadoret/stats>

## PUBLICATIONS et COMMUNICATIONS

### PUBLICATIONS:

ROUSSEL, THEOTIME, SEBASTIEN HALARY, CHARLOTTE DUVAL, BERENICE PIQUET, JEAN-PAUL CADORET, LEA VERNES, CECILE BERNARD, ET BENJAMIN MARIE. « Monospecific Renaming within the Cyanobacterial Genus *Limnospira* (*Spirulina*) and Consequences for Food Authorization ». *Journal of Applied Microbiology* 134, no 8 (1 août 2023): lxad159. <https://doi.org/10.1093/jambio/lxad159>.

RUMIN, JUDITH, GREGORY CARRIER, CATHERINE ROUXEL, AURELIE CHARRIER, VIRGINIE RAIMBAULT, JEAN-PAUL CADORET, GAËL BOUGARAN, ET BRUNO SAINT-JEAN. « Towards the optimization of genetic polymorphism with EMS-induced mutagenesis in *Phaeodactylum tricornutum* ». *Algal Research* 74 (1 juillet 2023): 103148. <https://doi.org/10.1016/j.algal.2023.103148>.

ROUSSEL, THÉOTIME, SÉBASTIEN HALARY, CHARLOTTE DUVAL, BÉRÉNICE PIQUET, JEAN-PAUL CADORET, LÉA VERNÈS, CÉCILE BERNARD, ET BENJAMIN MARIE. 2023. Monospecific Renaming within the Cyanobacterial Genus *Limnospira* (*Spirulina*) and Consequences for Food Authorization ». *Journal of Applied Microbiology* 134, no 8. <https://doi.org/10.1093/jambio/lxad159>.

VERDELHO VIEIRA, VÍTOR, JEAN-PAUL CADORET, F. G. ACIEN, AND JOHN BENEMANN. 2022. "Clarification of Most Relevant Concepts Related to the Microalgae Production Sector" *Processes* 10, no. 1: 175. <https://doi.org/10.3390/pr10010175>

PETIT L, VERNES L, CADORET JP. Docking and in silico toxicity assessment of *Arthrospira* compounds as potential antiviral agents against SARS-CoV-2. *J Appl Phycol.* 2021 Mar 20:1-24. doi: 10.1007/s10811-021-02372-9. PMID: 33776210; PMCID: PMC7979453.

GUTIÉRREZ, CL, C MUÑOZ, M SAN MARTÍN, JP CADORET, V HENRÍQUEZ. 2020. Chloroplast Dual Divergent Promoter Plasmid for Heterologous Protein Expression in *Tetraselmis suecica* (Chlorophyceae, Chlorodendrales) *Journal of phycology* 56 (4), 1066-1076

BONNEFOND, H., CHARLOTTE COMBE, JEAN-PAUL CADORET, ANTOINE SCIANDRA, OLIVIER BERNARD. Potentiel des microalgues. Stephanie Baumberger. *Chimie verte et industries agroalimentaires - Vers une bioéconomie durable*, Lavoisier, A paraître. hal-02421830

PIERRE G, CÉDRIC DELATTRE, PASCAL DUBESSAY, SÉBASTIEN JUBEAU, CAROLE VIALLEIX, JEAN-PAUL CADORET, IAN PROBERT AND PHILIPPE MICHAUD. What Is in Store for EPS Microalgae in the Next Decade? *Molecules* 2019, 24, 4296; doi:10.3390/molecules24234296.

- FILAIRE EDITH, CAROLE VIALLEIX, JEAN-PAUL CADORET, ASSIA DREUX, JEAN-YVES BERTHON 2019 ExpoZen®: an active ingredient modulating reactive and sensitive skin microbiota. 9-2019 26 EURO COSMETICS
- VIALLEIX CAROLE, THIBAUT MICHEL, JEAN-PAUL CADORET, ASSIA DREUX , JEAN-YVES BERTHON , EDITH FILAIRE. 2019 Use of protection of algato skin stressed by exposome. H&PC Today vol. 14(4) July/August 2019
- VIALLEIX, C., T MICHEL, JP CADORET, A SEVESTRE, J MERCIER, J DEMANGEON, JY BERTHON, E FILAIRE. 2019. Efficacy of an Antireactive Red Marine Algae Extract to Protect against the Exposome. SOFW Journal. 145: 6, 8-12.
- FILAIRE E, CAROLE VIALLEIX, JEAN-PAUL CADORET, SOPHIE GUÉNARD, CEDRIC MULLER, ASSIA DREUX-ZIGHA AND JEAN-YVES BERTHON. 2019 Characterization of Reactive and Sensitive Skin Microbiota: Effect of *Halymenia durvillei* (HD) Extract Treatment. *Cosmetics* 2019, 6, 69; doi:10.3390/cosmetics6040069.
- THIRIET-RUPERT S., G. CARRIER, C. TROTTIER, D. EVEILLARD, B. SCHOEFS, G. BOUGARAN, J.-P. CADORET, B. CHÉNAIS, B. SAINT-JEAN, 2018. Identification of transcription factors involved in the phenotype of a domesticated oleaginous microalgae strain of *Tisochrysis lutea*, *Algal Research*, Volume 30, March 2018, Pages 59-72, ISSN 2211-9264, <https://doi.org/10.1016/j.algal.2017.12.011>.
- FIZ DA COSTA, FABIENNE LE GRAND, CLAUDIE QUÉRÉ, GAËL BOUGARAN, JEAN PAUL CADORET, RENÉ ROBERT, PHILIPPE SOUDANT. 2017. Effects of growth phase and nitrogen limitation on biochemical composition of two strains of *Tisochrysis lutea*. *Algal Research*, Volume 27, November 2017, Pages 177-189
- BERTHON JEAN-YVES, RACHIDA NACHAT-KAPPES, MATHIEU BEY, JEAN-PAUL CADORET, ISABELLE RENIMEL & EDITH FILAIRE. 2017. Marine algae as attractive source to skin care. *Journal of Free Radical Research* volume 51
- SERIVE B, NICOLAU E, BERARD JB, KAAS R, PASQUET V, PICOT L., CADORET J.-P. 2017 Community analysis of pigment patterns from 37 microalgae strains reveals new carotenoids and porphyrins characteristic of distinct strains and taxonomic groups. *Plos one* 12(2): e0171872. Doi: 10.1371/journal.pone.0171872
- GARNIER M, BOUGARAN G, PAVLOVIC M, BERARD J.B , CARRIER G, CHARRIER A, LE GRAND F, LUKOMSKA E, ROUXEL C, SCHREIBER N, CADORET J.P , ROGNIAUX H AND BRUNO SAINT-JEAN. (2016) Use of a lipid rich strain reveals mechanisms of nitrogen limitation and carbon partitioning in the haptophyte *Tisochrysis lutea*. *algal research*, <http://dx.doi.org/10.1016/j.algal.2016.10.017>
- LE CHEVANTON, M., GARNIER M., LUKOMSKA, E., SCHREIBER, N., CADORET J.P., Saint Jean, B., BOUGARAN, G. (2016). Effects of nitrogen limitation on *dunaliella* sp.–*alteromonas* sp. interactions: from mutualistic to competitive relationships. *Frontiers in Marine Science* 3(795)
- THIRIET-RUPERT S, GREGORY CARRIER, BENOIT CHENAIS, CAMILLE TROTTIER, GAËL BOUGARAN , JEAN-PAUL CADORET, BENOIT SCHOEFS AND BRUNO SAINT-JEAN.

- (2016) Transcription factors in microalgae: genome-wide prediction and comparative analysis *BMC Genomics* 17:282
- RUMIN J., HUBERT BONNEFOND, BRUNO SAINT-JEAN, CATHERINE ROUXEL, ANTOINE SCIANDRA, OLIVIER BERNARD, JEAN-PAUL CADORET, GAËL BOUGARAN 2015 The use of fluorescent Nile red and BODIPY for lipid measurement in microalgae *Biotechnology for biofuels* 8 (1), 42
- JUIN, C., ANTOINE BONNET, ELODIE NICOLAU, JEAN-BAPTISTE BERARD, ROMAIN DEVILLERS, VALERIE THIERY, JEAN-PAUL CADORET, LAURENT PICOT 2015 UPLC-MSE Profiling of Phytoplankton Metabolites: Application to the Identification of Pigments and Structural Analysis of Metabolites in *Porphyridium purpureum*. *Marine drugs* 13 (4), 2541-2558
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- JUIN, C., CHEROUVRIER, J. R., THIERY, V., GAGEZ, A. L., BERARD, J. B., JOGUET, N., KAAS, R., CADORET, J. P., PICOT, L. (2014). Microwave-Assisted Extraction of Phycobiliproteins from *Porphyridium purpureum*. *Appl Biochem Biotechnol*. doi: 10.1007/s12010-014-1250-2.
- GARNIER M., G CARRIER, H ROGNIAUX, E NICOLAU, G BOUGARAN, B SAINT-JEAN, J P CADORET 2014. comparative proteomics reveals proteins impacted by nitrogen deprivation in wild-type and high lipid-accumulating mutant strains of *Tisochrysis lutea* *journal of proteomics*; doi:10.1016/j.jprot.2014.02.022
- CARRIER GREGORY, MATTHIEU GARNIER, LOIC LE CUNFF, GAEL BOUGARAN, IAN PROBERT, COLOMBAN DE VARGAS, ERWAN CORRE, JEAN-PAUL CADORET, BRUNO SAINT-JEAN (2014) Comparative Transcriptome of Wild Type and Selected Strains of the Microalgae *Tisochrysis lutea* Provides Insights into the Genetic Basis, Lipid Metabolism and the Life Cycle. *PLoS ONE* 9(1): e86889. doi:10.1371
- JUIN, C., THIERY, V., CADORET, J.P., PICOT, L. (2013). Towards the Clinical Use of Phytoplankton Carotenoid Pigments to Cure Cancer. *Oceanography* 1: e105. doi:10.4172/2332-2632.1000e105
- MONTAGNE X., PIERRE POROT, CAROLINE AYMARD, CECILE QUERLEU, ANNE BOUTER, DAPHNE LORNE, JEAN-PAUL CADORET, ISABELLE LOMBAERT-VALOT AND ODILE PETILLON. 2013 Algogroup: Towards a Shared Vision of the Possible Deployment of Algae to Biofuels *Oil & Gas Science and Technology – Rev. IFP Energies nouvelles* 1-24 DOI: 10.2516/ogst/2013164
- BAUDELET PAUL-HUBERT, ANNE-LAURE GAGEZ, JEAN-BAPTISTE BERARD, CAMILLE JUIN, NICOLAS BRIDIAU, RAYMOND KAAS, VALERIE THIERY, JEAN-PAUL CADORET AND LAURENT PICOT. (2013). Antiproliferative Activity of

Cyanophora paradoxa Pigments in Melanoma, Breast and Lung Cancer Cells. Mar. Drugs, 11(11), 4390-4406; doi:10.3390/md11114390

LE CHEVANTON, M., GARNIER, M., BOUGARAN, G., SCHREIBER, N., LUKOMSKA, E., BÉRARD, J.B., FOUILLAND, E., BERNARD, O., CADORET J.P., (2013). Screening and selection of growth-promoting bacteria for Dunaliella cultures. Algal Research 2 (2013) 212-222.

MIMOUNI V, ULMANN L, PASQUET V, MATHIEU M, PICOT L, BOUGARAN G, CADORET J.P., MORANT-MANCEAU A AND SCHOEFS B. 2012. The Potential of Microalgae for the Production of Bioactive Molecules of Pharmaceutical Interest. Current Pharmaceutical Biotechnology, 2012, 13

GAGEZ, A.L. VALERIE THIERY V., PASQUET V, CADORET J.-P. AND PICOT L. (2012). "Epoxy-carotenoids and Cancer. Review." Current Bioactive Compounds 8(2): 109-141.

SERIVE, B., KAAS, R., BÉRARD, J.B., PASQUET, V., PICOT, L. & CADORET, J.P. (2012). Selection and optimisation of a method for efficient metabolites extraction from microalgae. Bioresource Technology, 124, 311–320.

BOUGARAN, B., ROUXEL, C., DUBOIS, N., KAAS, R., GROUAS, S., LUKOMSKA, E., LE COZ, J.R. & CADORET, J.P. (2012). Enhancement of Neutral Lipid Productivity in the Microalga Isochrysis Affinis Galbana (T-Iso) by a Mutation-Selection Procedure. Biotechnology and Bioengineering. 2012 Nov;109(11):2737-45

MARCHETTI, J., BOUGARAN, G., JAUFFRAIS T., LEFEBVRE S., ROUXEL C., SAINT-JEAN B., LUKOMSKA E. ROBERT, R., CADORET, J.P., 2012. Effects of blue light on the biochemical composition and 1 photosynthetic activity of 2 Isochrysis sp. (T-iso) Journal of Applied Phycology, 10.1007/s10811-012-9844-y.

MARCHETTI, J., BOUGARAN, G., LE DEAN, L., MÉGRIER, C., LUKOMSKA, E., KAAS, R., OLIVO, E., BARON, R., ROBERT, R., CADORET, J.P., 2012. Optimizing conditions for the continuous culture of Isochrysis affinis galbana relevant to commercial hatcheries. Aquaculture 326-329(0): 106-115

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PASQUET V, MORISSET P., IHAMMOUINE S., CHEPIED A., LUCIE AUMAILLEY, BERARD J.-B., SERIVE B., KAAS R, LANNELUC I., THIERY V., LAFFERRIERE M., PIOT J.-M. PATRICE T., CADORET J.-P., PICOT L 2011. Antiproliferative Activity of Violaxanthin Isolated from Bioguided Fractionation of Dunaliella tertiolecta Extracts. Mar. Drugs 2011, 9, 819-831; doi:10.3390/md9050819

PASQUET V, CHEROUVRIER J.-R., FARHAT F., THIERY V., PIOT J.-M., BERARD J.-B., KAAS R., SERIVE B., PATRICE T., CADORET J.-P., PICOT L. 2011. Study on the microalgal pigments extraction process: Performance of microwave assisted extraction. Process Biochemistry 46: 59–67



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- CADORET J.-P. ET O. BERNARD. La production de biocarburant lipidique avec des microalgues : promesses et défis *J. Société biologie* 202: 201-211
- BOWLER C., ALLEN A., BADGER J, GRIMWOOD J., JABBARI K., KUO A., MAHESWARI U., .....CADORET J.P.....ARMBRUST V., GREEN B., VAN DE PEER Y., GRIGORIEV I. 2008. The phaeodactylum genome reveals the evolutionary history of diatom genomes. *Nature* 456: 239-244
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