

Docteur en biologie, HDR

né le 3 novembre 1962, nationalité française

Directeur de Recherche 1ère classe au CNRS

Biochimie et biologie moléculaire des défenses, physiologie cellulaire des algues marines, écologie chimique- Sections 66 du CNU et 23 du CoN-CNRS

Marié, 4 enfants

Adresse personnelle :

377, rue Marquise de Kergariou 29680 Roscoff

Tél: 02. 98.61.27.87

Adresse professionnelle :

UMR 8227, Biologie Intégrative des Modèles Marins, CNRS/UPMC-Paris6, Station Biologique, CS 90074, 29688 Roscoff

Tél: 02. 98.29.23.75/e-mail: potin@sb-roscoff.fr



Diplômes

DEA (MSc) Océanologie Biologique Université Pierre et Marie Curie-Paris6, sept. 1988

Doctorat de l'Université de Bretagne Occidentale. « Recherche, production, purification et caractérisation d'hydrolases bactériennes pour la production d'oligosaccharides des parois d'algues rouges ». Direction B. Kloareg

Habilitation à diriger des recherches. Université de Bretagne Occidentale. 09/05/2003

Parcours professionnel

1988-1992 Thèse de doctorat Direction B. Kloareg, Station Biologique de Roscoff.

1992-1993: Post-doctorat, Biologie moléculaire des algues rouges, Institute for Marine Biosciences, NRC, Halifax, N.S., Canada (Dr M. Reith)

1993-1996 CR2 CNRS- Section 27 du Département Sciences de la Vie (recrutement octobre 1993, titularisation printemps 1995)

1996-2006 CR1 CNRS, en janvier 1999 affectation à l'ex UMR 1931 CNRS-Goëmar, UMR 7139 CNRS-UPMC, Station Biologique de Roscoff. Responsable de l'équipe : « Biochimie des défenses chez les algues depuis 2002 ».

2006-2014 DR2 CNRS, depuis octobre 2006, « Défenses et signalisation chimique des macro-algues »

2014-présent DR1 CNRS, depuis octobre 2006, « Défenses et signalisation chimique des macro-algues »

PRODUCTION SCIENTIFIQUE

>83 publications dans des revues internationales à comité de lecture, 6 chapitres d'ouvrages et 13 articles dans des compte-rendus de congrès ou des articles de synthèse et 9 brevets.

1. Potin P., Sanseau A., Le Gall Y., Rochas C. & Kloareg B. 1991. Purification and characterization of a new \square -carrageenase from a marine *Cytophaga*-like bacterium. *Eur. J. Biochem.*, **201**: 241-247.
2. Hily C., Potin P. & Floc'h J.Y. 1992. Structure of subtidal algal assemblages on soft bottom sediments: fauna/flora interactions and role of disturbances in the Bay of Brest, France. *Mar. Ecol. Progr. Ser.*, **85**: 115-130.
3. Potin P., Patier P., Rochas C., Yvin J. C., Floc'h J. Y. & Kloareg B. 1992. Chemical characterization of the cell wall polysaccharides from tank-cultivated and wild plants of *Delesseria sanguinea* (Hudson) Lamouroux (Cerariales, Delesseriaceae): culture patterns and potent anticoagulant properties. *J. Appl. Phycol.*, **4**: 119-128.
4. Potin P., Richard C., Rochas C. & Kloareg B. 1993. Purification and characterization of an \square -agarase from *Alteromonas agarlyticus* (Cataldi) comb. nov. strain GJ1B. *Eur. J. Biochem.*, **214**: 599-607.
5. Rochas C., Potin P. & Kloareg B., 1994. Nmr spectroscopic investigation of agarose oligomers produced by an \square -agarase. *Carbohydr. Res.*, **253**: 69-77.
6. Potin P., Richard C., Barbeyron T., Henrissat, Gey, C., B, Pétillet Y., Forest E., Dideberg O., Rochas C., & Kloareg B., 1995 - Processing and hydrolytic mechanism of the *cgkA*-encoded \square -carrageenase of *Alteromonas carrageenovora*. *Eur. J. Biochem.*, **228**: 971-975.
7. Barbeyron T., Potin P., Richard C., Collin, O., & Kloareg B., 1995 - Molecular cloning, nucleotide sequence and expression of an arylsulphatase gene from *Alteromonas carrageenovora*. *Microbiology*, **141**, 2897-2904.
8. Patier, P., Potin P., Rochas, C., Kloareg B., Yvin, J.C., & Liénart Y. 1995 - Free and silica bound oligo-kappa-carrageenans elicit laminarinase activity in *Rubus* cells and protoplasts. *Plant Science*, **110**, 27-35.
9. Chavagnat, F., Duez, C., Guinand, M., Potin P., Barbeyron T., Henrissat B., Wallach, J. & Ghuysen, J.M. 1996. Cloning, sequencing and overexpression in *Escherichia coli* of the alginate lyase-encoding *algi* gene of *Pseudomonas alginovora*. Identification of three classes of alginate lyases. *Biochem. J.*, **319**, 575-583.
10. Zinoun, M., Diouris, M. Potin P., Floc'h, J.-Y. & Deslandes, E. 1997. Evidence of sulfhydrolase activity in the red alga *Calliblepharis jubata*. *Bot. Mar.*, **40**, 49-53.
11. Barbeyron, T., Gérard, A., Potin P., Henrissat, B. & Kloareg B. 1998. The kappa-carrageenase of the marine bacterium *Cytophaga drobachiensis* : structural and phylogenetic relationships within family-16 of glycoside hydrolases. *Mol. Biol. Evol.*, **15**, 528-537.
12. Lépagnot-Descamps, V., Richard, C., Lahaye, M., Potin P., Yvin, J.C., & Kloareg B. 1998. Purification and determination of the action pattern of *Haliotis tuberculata* laminarinase. *Carbohydr. Res.*, **310**, 283-289.
13. Potin P., Bouarab, K., Kuepper, F.C., & Kloareg, B. 1999. Oligosaccharide recognition signals and defence reactions in marine plant-microbe interactions. *Curr. Opin. Microbiol.*, **2**, 276-283.
14. Bouarab K., Potin P., Correa, J. & Kloareg B. 1999. Sulfated oligosaccharides mediate the interaction between the red alga *Chondrus crispus* and its green algal endophyte. *Plant Cell.*, **11**, 1635-1650.
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81. Buschmann AH, Prescott S, Potin P, Faugeron S, Vázquez JA, Camus C, Infante J, Hernández-González MC, Gutiérrez A, Varela DA **2014**. The Status of Kelp Exploitation and Marine Agronomy, with Emphasis on *Macrocystis pyrifera*, in Chile. In: **Advances in Botanical Research**, 71 : 161-188. *Sea Plants*, ed. N. Bourgougnon, Elsevier.
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Brevets

1. Barbeyron, T., Richard, C., Potin, P., Henrissat, B., Yvin J.C. et Kloareg, B. (1997) Gènes codant pour des iota-carraghénases et leur utilisation pour la production d'enzymes de biodégradation des carraghénanes. **French patent** n° 9612204 (07/10/96).
2. Barbeyron, T., Richard, C., Potin, P., Henrissat, B., Yvin J.C. et Kloareg, B. (1997) Gènes codant pour des kappa-carraghénases et leur utilisation pour la production d'enzymes de biodégradation des carraghénanes. **French patent** n°9701148 (3/02/97).
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4. Genicot, S., Richard, O, Penninkhof, B., de Ruiter G., Potin, P., Kloareg, B., and Rudolph, B. (2000) Galactan sulfhydrolases, corresponding amino acid and nucleotide sequences, sulfhydrolase preparation, processes and products thereof. **US patent** n° 09/567,003
5. Potin, P., Bouarab, K, Salaun, J.-P., Yvin J.C. (2002). Procédé de préparation d'acides gras polyinsaturés libres et de leurs métabolites d'oxydation. **French patent** n° 0209912 (02/08/02).
6. Leblanc, C., Colin, C., Delage L., Roeder, V., Kloareg, B., Potin, P. (2003). Haloperoxidases from the brown alga *Laminaria digitata* **European patent** n° 03290518.4 (04/03/03).
7. Leblanc, C., L. Delage, G. Michel, E. Rebuffet, M. Czjzek, and P. Potin, **2011**. Bacterial iodoperoxidases from *Zobellia galactanivorans*, Methods of preparation and uses thereof, European Patent n° 11305864.8, France, date de dépôt 05/07/11.
8. Delage L., Meslet-Cladiere L., Goulitquer S. and Potin P. **2011**. Utilisation de "polyketide synthases de type III (PKS III) recombinantes d'algues brunes marines, France, n° 11 58728, date de dépôt 29/09/2011. PCT procedure in progress.
9. Le Sourd F, Jam M, Genicot S, Potin P, Kloareg B 2014. Oligo- λ -carraghénanes, compositions cosmétique, dermatologique et pharmaceutique les contenant, et leurs utilisations. France, n°BNT218168FR00 -, date de dépôt 21/05/2014. PCT procedure in progress.

Chapitres de livres et compte-rendus de congrès:

1. Potin, P., Floc'h, J.Y., Augris, C. & Cabioch, J. 1990. Annual growth rate of the calcareous red alga *Lithothamnion corallioides* (Corallinales, Rhodophyta) in the bay of Brest, France. *Hydrobiologia*, 204/205: 263-267.
2. Deslandes, E., Potin, P., Zinoun, M. & Floc'h, J.Y. 1990. Contribution to the content and nature of the phycocolloid from *Kallymenia reniformis* (Cryptonemiales, Rhodophyta) *Hydrobiologia*, 204/205:60-608.
3. Kloareg, B., Liu, X.W., Boyen, C., Le Gall, Y., Zha, X.D., & Potin, P., 1989. Perspectives d'applications des biotechnologies végétales à la micropropagation et à l'amélioration génétique des algues marines d'intérêt économique. *Océanis*, 15: 649-660.
4. Kloareg, B., Barbeyron, T., Flament, D., Michel, G., Richard, C., Potin, P., & Henrissat, B. 1998. Microbial degradation of sulfated galactans. Towards novel utilisations of red algal polysaccharides. in *Marine Microorganisms for industry.*, Y. le Gal & A. Muller-Feuga Eds., Ifremer Brest (200 pp.),137-143.
5. Barbeyron, T., Flament, D., Michel, G., Richard, C., Potin, P., & Henrissat, B. & Kloareg, B. 1998. Microbial degradation of algal polysaccharides and molecular structure of polysaccharidases. *Marine Microorganisms: Research issues for biotechnology*. EC-US Workshop DGXII, Brussels,175-186.
6. Bouarab, K., Kloareg, B., Correa, J. & Potin, P. 2001. The *Chondrus crispus* – *Acrochaete operculata* host-pathogen association, a novel model in glycobiology. *J. appl. Phycol.*, 13,185-193.
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14. Ianora, A., Boersma M., Casotti, R., Fontana, A., Harder J., Hoffmann F., Pavia, H., Potin, P., Poulet, S. A., Toth, G. 2006. New Trends in Marine Chemical Ecology. *Estuaries and Coasts* 29, 531–551.
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19. Potin, P., 2012. Intimate associations between epiphytes, endophytes and parasites of seaweeds, in *Seaweed Biology, Ecological Studies*, C. Wiencke and K. Bischof, Editors. Springer-Verlag: Berlin Heidelberg. pp.203-234.
20. Gaillard F. and Potin P. 2013. Proteomics and metabolomics of marine organisms: current strategies and knowledge. in *Outstanding Molecules of Marine Organisms*. J.M. Kornprobst and S. La Barre, Editors. Wiley. In press.

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Communications.

- **XIIIth International Seaweed Symposium**, Vancouver, 17-23 August 1989.

P. Potin, P. Patier, C. Rochas, J. C. Yvin, J. Y. Floc'h & B. Kloareg, Tank cultivation of *Delesseria sanguinea* and preliminary analysis of the cell-wall polysaccharides. Poster.

P. Potin, J.Y. Floc'h, C. Augris & J. Cabioch, Annual growth rate of the calcareous red alga *Lithothamnion corallioides* (Corallinales, Rhodophyta) in the bay of Brest, France. Contributed paper.

- **IIIrd International Workshop on Plant Polysaccharides, Structure and Function**. Le Croisic, 19-21 September 1990.

P. Potin, A. Sanseau, Y. Le Gall, C. Rochas & B. Kloareg, Isolation of carrageenases from a marine *Cytophaga*-like bacterium. Poster.

- **International Marine Biotechnology Conference**, Baltimore, October, 1991.

P. Potin, T. Barbeyron, F.Y. Bouget, C. Rochas & B. Kloareg, Biochemical characterization and molecular cloning of galactan hydrolases from marine bacteria. Invited paper.

- **XIV th International Seaweed Symposium**, Brest-StMalo, 16-21 August 1992.

Potin P., Richard C., Rochas C. Lahaye, M. & Kloareg B. Purification of specific agarases from marine bacteria and characterization of novel oligosaccharides from agarose. Contributed paper.

- **XIVth Meeting of the Federation of European Connective Tissue Societies** 30/08-3/09/94-Lyon: 1991

P. Potin, J.C. Yvin & B. Kloareg Biodegradation of extracellular matrix sulfated polysaccharides from red algae. Poster

- **Colloque de la Société de Physiologie Végétale**, 12-14/10/94, St Malo. Poster : P. Potin, T. Barbeyron, A. Gérard & B. Kloareg Preliminary characterization of galactan hydrolases from marine red algae and comparison with marine bacteria. Plant Sciences 1994, Y. de Kouchkovsky and F. Lahrer, eds.

- **XVth International Seaweed Symposium**, January 8-14 1995, Valdivia, Chili, Invited paper: P. Potin, A. Gérard, C. Richard, C. Rochas & B. Kloareg. Enzymes as tools for the structural analysis of algal polysaccharides.

- **Ist European Phycological Congress**, august 11-18 1996, Cologne, Allemagne, Contributed paper : K. Bouarab, P. Potin, J.A. Correa & B. Kloareg

Highly sulfated oligocarrageenans elicit specific protein neosynthesis in *Acrochaete operculata*.

- **VIth International Phycological Congress**, august 9-16 1997, Leiden, Pays-Bas, Invited paper : P. Potin, F.

Corellou, F.-Y. Bouget, C. Brownlee, M. McCann & B. Kloareg, Cell wall assembly and function in brown algae.

- **Vth Workshop PR proteins**, Aussois, march 1998, Poster: K. Bouarab, P. Potin, J.A. Correa & B. Kloareg, Sulfated oligosaccharides mediate a cross-talk between the red alga *Chondrus crispus* and its green algal pathogenic endophyte *Acrochaete operculata*.

- **Current Approaches in Basic and Applied Phycology** (atelier FONDAP-CNRS), Las Cruces, 7-11 décembre 1998 (conférencier invité). Bouarab, K., Kloareg, B., Correa, J.A. and Potin, P. 1998. Ecological and biochemical basis of algal infectious diseases

- **FEBS 99 26th Meeting of the Federation of European Biochemical Societies**. Nice, June 19-24, 1999. Poster: K. Bouarab, P. Potin, J.A. Correa & B. Kloareg, Sulfated oligosaccharides mediate a cross-talk between the red alga *Chondrus crispus* and its green algal pathogenic endophyte *Acrochaete operculata*.

- **2nd European Phycological Congress**, Montecatini, Italie, 20-26 septembre 1999 (communication). Leblanc C. Küpper, F. Potin P. & Kloareg, B. Defence mechanisms and halogen metabolism in brown algae.

- **Vth Latin-American Phycological congress** 21-26 novembre 1999, Puerto-Varas, Chili (lecture plénière).

Bouarab, K. Kloareg, B., Correa, J. & Potin P., - 1999. The *Chondrus crispus*- *Acrochaete operculata* host-pathogen association, a novel model in glycobiology.

- **Colloque général de la Société de Physiologie Végétale**, 5-7/12/2000, Besançon. Poster : Bouarab K., Weinberger, F., Pohnert, G., Kloareg B. & Potin P. (2000) Resistance to *Acrochaete operculata* is associated with the activation of phenylpropanoid metabolism in the marine red alga *Chondrus crispus*.

- **XVIIème International Seaweed Symposium**, Cape Town, Afrique du Sud. (janvier 2001). Küpper F., Leblanc C., Colin C., Baker A., Carpenter L., Malin G., Kloareg B. & Potin P. Pathogen recognition and defense mechanisms in Laminariales. Conférence sur invitation.

- **10th International Congress on Molecular Plant-Microbe Interactions**. Madison, U.S.A. July 10-14, 2001.

Invited paper: B. Kloareg, K. Bouarab, F. Adas, G. Pohnert, J.-P. Salaün & P. Potin. Biochemical bases of marine plant-microbe interactions : novel evidence on the evolution of plant immunity.

- **Atelier Lipides de la Société de Physiologie Végétale**, 7-10/07/2001, Strasbourg,

Poster : Bouarab K., Adas F., Salaun J.-P., Kloareg B. & Potin, P.

Induction des voies des lipoxygénases chez l'algue rouge *Chondrus crispus* en réponse aux éliciteurs de défense.

- **VIIIth International Phycological Congress**, august 9-16 2001, Thessalonikii, Grèce, Invited paper : Bouarab K., Weinberger F., Fiechter, V., Correa, J., Kloareg B., Potin P. Cell-cell recognition and signal transduction in the *Chondrus crispus*-*Acrochaete operculata* association.

3rd European Phycological Congress, Belfast, Irlande, August 2003.

- Colin C., Leblanc C., Wagner E., Delage L., Leize-Wagner E., Van Dorsselaer A., Kloareg B. and Potin P. Poster : The brown algal kelp *Laminaria digitata* features distinct bromoperoxidase and iodoperoxidase activities.

Weinberger F., Pohnert G., Kloareg B., & Potin P. Invited communication. A signal released by an endophytic attacker acts as a substrate for a rapid defensive reaction of the red alga *Chondrus crispus*.

Gaquerel, E., Bouarab, K., Potin, P. and Salaün, J-P., Poster. "Elicitors induce oxylipins synthesis in the red alga *Chondrus crispus*".

5ème Colloque Général de la Société Française de Physiologie Végétale Leblanc C., Colin C., Delage L., Kloareg B. and Potin P. (2003). Poster : Haloperoxidases in the brown alga *Laminaria digitata*. Poster au, Gif/Yvette, France.

Workshop, Perspectives in Marine Bioadhesives Engineering: Invited speaker: Mimicking Marine Bioadhesives towards Novel Applications. 4/09, 2003, Brusells. Communication : Potin P., Cross-linking mechanisms of algal polymers.

XVIIIème International Seaweed Symposium, Bergen, Norway. (juin 2004).

Colin C., Leblanc C., Berglin M., Delage L., Elwing, H & Potin P. Communication orale : Vanadadium-haloperoxidases mediate the cross-linking of brown algal polyphenolics : implications for algal adhesion.

Weinberger F, Leonardi P, Kloareg B & Potin P. Communication orale

Agar oligosaccharides trigger distinct responses in two closely related red algae, *Gracilaria conferta* and *G. chilensis*

49th International Conference on the Bioscience of Lipids ; Ajaccio, France 20-24 sept.2005

E. Gaquerel, K. Bouarab, P. Potin, J.P. Salaün ; Defense elicitors induce oxylipin synthesis in the red alga *Chondrus crispus*

International Phycological Congress, Durban, South Africa, 13-19 August 2005. Invited speaker

Potin, P. Colin, C., Wagner, E., Delage, L., Berglin, M., Elwing, H & Leblanc, C.- Integration of molecular biology and chemical approaches for understanding cross-linking mechanisms in brown algal adhesion.

19th European Conference on Biomaterials Sorrento, Italy - September 11-15 2005. Poster 114 597: Algal Polymers as Potential Soft Tissue Adhesives. Havazelet Bianco-Peled, Ronit Biton, Maya Ben-Yehuda, Philippe Potin, Carole Colin.

2nd Int. Conf. on Nonmammalian Eicosanoids, Bioactive Lipids & Plant Oxylipins, Berlin, 24-27. May 2006, Invited speaker Gaquerel, E., Hervé, C., Bouarab K., Boyen, C., Salaün J-P. & Potin P. New insights on the defensive function of octadecanoid and eicosanoid oxylipins in marine red algae.

XV Congress of the Federation of European Society of Plant Biology. Lyon Juillet 2006: A. Ritter, C. Henriquez, S. Goulitquer, JP. Salaün, T. Tonon, J. Correa and P. Potin - Affiche-"Physiological and molecular response of the brown alga *Laminaria Digitata* in reaction to copper stress"

3rd GERLI Lipidomics Meeting "From Lipid Analysis to Genetic Disorders" Marseille Mai 2006: "Mapping Oxylipids in Biological Samples" S. Goulitquer, E. Gaquerel, A. Ritter, D. Lucas & P. Potin

EUROBIC8 8th European Biological Inorganic Chemistry Conference 2-6 JULY 2006, Communication orale. Feiters MC, Leblanc C, Michel G, Potin P, Küpper FC, Meyer-Klaucke W, Kostenko AV, Soldatov AV, V, I, and Br X-ray Absorption Spectroscopic Studies of Haloperoxidase

4th European Phycological Congress, Oviedo, Spain, August 2007 **Présentation orale.** Verhaeghe EF, Fraysse A, Guerquin-Kern JL, Wu TD, Devès G, Mioskowski C, Leblanc C, Ortega R, Ambroise Y, Potin P. Micro-chemical imaging of iodine distribution in the brown alga *Laminaria digitata* suggests a new mechanism for its accumulation.

Congrès de la Société Phycologique de France - ALGIMAC – 9-10 december 2008- Concarneau (France) Présentation orale : Cosse A., Thomas F., Goulitquer S., Leblanc C., Potin P. (2008). Potentialisation des réponses de défense de l'algue brune *Laminaria digitata*..

Seaweed Research Symposium - 22nd January 2009 Galway (Ireland) Invited speaker Philippe Potin, Challenges in the Optimised Production of Bioactives from Kelp -

International Meeting-Regulatory oxylipins, Lausanne, Suisse, 3-6 juin 2009. Invited speaker : Sophie Goulitquer, Jean-Pierre Salaün, André Ritter, François Thomas, Audrey Cosse, Thierry Tonon, Catherine Leblanc, Philippe Potin. Aldehyde Release By Brown Algal Kelps..

14th International Conference on X-Ray Absorption Fine Structure (XAFS14) Camerino (ITALY) July 26-31, 2009. Communication orale Feiters MC, Meyer-Klaucke W, Kostenko AV, Soldatov AV, Leblanc C, Michel G, Potin P, Küpper FC, Hollenstein K, Locher KP, Bevers LE, Hagedoorn P-L, Hagen WR, 2009: Anion binding in biological systems

4th GERLI Lipidomics Meeting - Rennes Juillet 2009 Invited speaker Goulitquer S, Ritter A, Tonon T, Salaün J-P & Potin P Oxylipin structure and function in response to stress in marine brown algae.

9^{ème} International Phycological Congress-Tokyo (Japon) Aout 2009. Invited speaker Chemical ecology session.: F Thomas , A Cosse, S Goullitquer, S Raimund, C Leblanc & P Potin. Probing the ecological significance of distance chemical signaling in kelps at the gene expression level.

Rencontres de Biologie Marine Thalado Roscoff 20/08/2009 Conférence grand public sur la communication chimique chez les laminaires. P. Potin : "Les petits potins des algues".

Seaweeds. for Human Consumption, Bioactive Compounds, and Combating of Diseases, An international interdisciplinary symposium Carlsberg Academy, Copenhagen, August 26-27, 2010. Potin P. Algal genomics may offer new insights into seaweed uses

*Potin P., Boudry P, Boyen C., Champenois J., M. Cock, Czjzek M., Frangoudes K., Laurans M., Leblanc C., Valero M., Sassi J.-F., Siegel A., Tonon T.(2012). IDEALG, a long term national integrative project to capitalize on the recent breakthroughs in algal genomics to develop agronomy, biotechnology and chemistry from seaweed bio-resources. British Phycological Society annual winter meeting - January 4-6th 2012, Newcastle,UK.

*Potin P (2013) Biosynthesis and functions of phlorotannins in the brown alga *Ectocarpus*: how functional genomics revolutionizes our understanding of algal metabolism and defense mechanisms.

Quingdao_Sino-German symposium on algae kicked off on the Yushan campus of Ocean University of China (OUC) on March 21, 2013.

*Potin P (2013) **XXI^{ème} International Seaweed Symposium, ISS** Bali, Indonesia. (avril 2013).

Genomics and post-genomics approaches to gain new insights into seaweed agricultural uses.

*Potin P (2013) XXIth ISS Bali 2013 Biotic interactions of kelps and phycopathology, what is known and what is next ?

*Potin P (2014) 2014 Wando International Marine Algal Symposium (Seaweeds for Future Industry) (16-19 avril 2014, Wando, South Korea) Pattern-triggered immunity (PTI) in red and brown seaweeds and management of disease resistance.

(*) Conférencier invité Ph. Potin

Administration de contrat (10 dernières années)

2017--2020. EU H2020-Blue Growth : GENIALG, Coordinateur scientifique

2011 – 2019. Programme Investissements d'avenir, IDEALG, Coordinateur scientifique.

2005 – 2008. Programme national inter-organismes TOXNUC-E. project « IODE » coordinateur

2001 – 2005. EU FP5-GROWTH : Algal Bioadhesives

2001 – 2005. EU FP5 INCO6DEV2 EPIFIGHT. Coordinateur pour le rapport final.

2000 – 2001. Programme National Biodiversité, Interactions Durables : co-coordinateur

Autres activités

2012- 2014 Représentant français dans le Conseil de la Federation of European Phycological societies (FEPS)

2009- Membre du Conseil de la Société phycologique de France, depuis jan. 2009.

2008-2012 Membre élu pour 4 ans de la "Section 28" (Biologie Végétale Intégrative) du Comité National du CNRS.

2006-2009 Membre de l'équipe d'Ingénierie et d'Animation du Pôle de Compétitivité Mer-Bretagne depuis septembre 2005, animateur Biotechnologies marines, fin de mandat janvier 2010.

2003-2008 Membre de l'Editorial board *Botanica Marina*

2005-2012 Représentant du CNRS au Conseil scientifique du Conservatoire Botanique National de Brest.

Arbitre pour les revues

Plant Physiology, PlosOne, Marine Drugs, Phytochemistry, Journal of Phycology, European Journal of Phycology, Journal of applied Phycology, Plant Science , Botanica Marina, Marine Biotechnology, Plant Cell Physiology, Plant Cell & Environment.