

Publications (2012-2014) des membres de la section 6 'Sciences de la vie' de l'Académie d'Agriculture / Publications (2012-2014) of Members of Section 6 'Life Sciences' of the French Academy of Agriculture

Mise à jour : 26 juin 2014 / Update: 26 June 2014

Claude Alabouvette (Correspondant national / Corresponding Member)

- 2013** Aime et al. 2013. The endophytic strain *Fusarium oxysporum* Fo47: a good candidate for priming the defense responses in tomato roots. MOLECULAR PLANT-MICROBE INTERACTIONS 26, 918-926
- Martin-Sanchez et al. 2013.** Real-time PCR detection of *Ochroconis lascauxensis* involved in the formation of black stains in the Lascaux Cave, France. SCIENCE OF THE TOTAL ENVIRONMENT 443, 478-484
- Garcia-Sanchez et al. 2013.** Free-living amoebae in sediments from the Lascaux Cave in France. INTERNATIONAL JOURNAL OF SPELEOLOGY 42, 9-13
- Alabouvette C, Cordier C. 2013** *Pseudomonas fluorescents*, ceux qui font résister les sols : Bio-protectants, bio-fertilisants, bio-stimulants ? Un peu des trois et souvent à la fois... PHYTOMA 662, 14-17
- 2012** Michielse et al. 2012. Degradation of aromatic compounds through the beta-ketoadipate pathway is required for pathogenicity of the tomato wilt pathogen *Fusarium oxysporum* f. sp. *Lycopersici*. MOLECULAR PLANT PATHOLOGY 13, 1089-1100
- Martin-Sanchez et al. 2012.** Two new species of the genus *Ochroconis*, *O. lascauxensis* and *O. anomala* isolated from black stains in Lascaux Cave, France. FUNGAL BIOLOGY 116, 574-589
- Martin-Sanchez et al. 2012.** Use of biocides for the control of fungal outbreaks in subterranean environments: the case of the Lascaux Cave in France. ENVIRONMENTAL SCIENCE & TECHNOLOGY 46, 3762-3770
- Martin-Sanchez et al. 2012.** The nature of black stains in Lascaux Cave, France, as revealed by surface-enhanced Raman spectroscopy. JOURNAL OF RAMAN SPECTROSCOPY 43, 464-467
- Visentin et al. 2012.** Transcription of genes in the biosynthetic pathway for fumonisin mycotoxins is epigenetically and differentially regulated in the fungal maize pathogen *Fusarium verticillioides*. EUKARYOTIC CELL 11, 252-259
- Fiers et al. 2012.** Potato soil-borne diseases. A review. AGRONOMY FOR SUSTAINABLE DEVELOPMENT 32, 93-132
- Alabouvette et al. 2012.** Microbial control of plant diseases: 96-111. In Sundh I, Wilcks A and Goettel MS edt; BENEFICIAL MICROORGANISMS IN AGRICULTURE, FOOD AND THE ENVIRONMENT. CABI WALINGFORD UK

Georges Bernier (Membre associé / Foreign Member)

- 2013** Bernier G. 2013. My favourite flowering image: the role of cytokinin as a flowering signal. JOURNAL OF EXPERIMENTAL BOTANY 64, 5795-5799
- Bernier G. 2013.** Darwin, un pionnier de la physiologie végétale. L'apport de son fils Francis. ACADEMIE ROYALE DE BELGIQUE, Bruxelles, collection in-8°, IVe série, tome I, N° 2092, 186 p

Joseph-Marie Bové (Membre titulaire / Member)

- 2014** Bové JM. 2014. Huanglongbing or yellow shoot disease of Gondwanan origin: Will it destroy citrus worldwide? PHYTOPARASITICA, in press
- Wulff et al. 2014.** The complete genome sequence of '*Candidatus liberibacter americanus*', associated with Citrus huanglongbing. MOLECULAR PLANT-MICROBE INTERACTIONS 27, 163-176
- 2013** Nelson et al. 2013. The pangaean origin of "*Candidatus liberibacter*" species. JOURNAL OF PLANT PATHOLOGY 95, 455-461

- Duran-Vila N, Bové JM. 2013.** Huanglongbing es la enfermedad mas devastadora de los cítricos. LEVANTE AGRICOLA, 4^{ème} trimestre 2013, 1-4
- Hashemian et al. 2013.** Complex mixtures of viroids identified in the two main citrus growing areas of Iran. JOURNAL OF PLANT PATHOLOGY 95, 647-654
- 2012 Bové JM.** Huanglongbing and the future of citrus in Sao Paulo state, Brazil. JOURNAL OF PLANT PATHOLOGY 94, 465-467
- Marques et al. 2012.** Bacteria associated with the rhizosphere of manganese-deficient date palms affected by brittle leaf disease. JOURNAL OF PLANT PATHOLOGY 94, 157-169

André Charrier (Membre titulaire / Member)

- 2014 Milanovic et al. 2014.** Practices involving genetic resources: beyond utilitarianism, towards a multiple ontology of the living world. SOCIETY AND NATURAL RESOURCES, submitted
- Bertrand et al. 2014.** Advanced variety development and multiplication of Arabica coffee: challenges and opportunities. The 25th ASIC (Association for the Science and Information on Coffee / Association pour la Science et l'Information sur le Café) International Conference on Coffee Science, Colombia 2014, ASIC, Paris
- 2013 Musoli et al. 2013.** Inheritance of resistance to coffee wilt disease (*Fusarium xylarioides* Steyaert) in Robusta coffee (*Coffea canephora* Pierre) and breeding perspectives. TREE GENETICS & GENOMES 9, 351-360
- 2012 Charrier et al. 2012.** Important developments in coffee at the beginning of the 21st century. CAHIERS AGRICULTURES 21, 73-76
- Charrier et al. 2012. Coédition d'un numéro spécial sur le café.** Avancées et perspectives de la recherche internationale sur le café. CAHIERS AGRICULTURES, Numéro spécial 21 (2-3), mars-avril-mai-juin 2012, 15 articles, http://www.jle.com/fr/revues/agro_biotech/agr/sommaire.phtml?cle_parution=3701
- Charrier A. 2012.** L'agriculture sur Internet. CAHIERS AGRICULTURES 21, 208-209

Yves Combarinous (Correspondant national / Corresponding Member)

- 2013 Combarinous Y. 2013.** Communications et signalisations cellulaires (4^e Éd.). ÉDITIONS TEC ET DOC / LAVOISIER, ISBN 13 : 9782743015084, 381 p
- 2012 Vosges et al. 2012.** 17 alpha-Ethinylestradiol and nonylphenol affect the development of forebrain GnRH neurons through an estrogen receptors-dependent pathway. REPRODUCTIVE TOXICOLOGY 33, 198-204

Françoise Corbineau (Membre titulaire / Member)

- 2014 Morel et al. 2014.** Early molecular events involved in *Pinus pinaster* Ait. Somatic embryo development under reduced water availability: transcriptomic and proteomic analyses. PHYSIOLOGIA PLANTARUM, doi: 10.1111/ppl.12158
- Hoang et al. 2014.** Inhibition of germination of dormant barley (*Hordeum vulgare* L.) grains by blue light as related to oxygen and hormonal regulation. PLANT CELL AND ENVIRONMENT 37, 1393-1403
- Wagner et al. 2014.** Utilisation des enzymes de détoxication cellulaire comme marqueurs de la qualité physiologique des semences oléagineuses. INNOVATIONS AGRONOMIQUES 35, 133-141
- 2013 Hoang et al. 2013.** Water content: a key factor of the induction of secondary dormancy in barley grains as related to ABA metabolism. PHYSIOLOGIA PLANTARUM 148, 284-296
- Hoang et al. 2013.** Induction of secondary dormancy by hypoxia in barley grains and its hormonal regulation. JOURNAL OF EXPERIMENTAL BOTANY 64, 2017-2025
- Arc et al. 2013.** ABA crosstalk with ethylene and nitric oxide in seed dormancy and germination. FRONTIERS IN PLANT SCIENCE 4, 63
- Corbineau F. 2013.** Bases biologiques de l'utilisation du froid pour la conservation des fruits et des légumes. REVUE GENERALE DU FROID & DU CONDITIONNEMENT D'AIR 1133, 35-41
- Sleimi et al. 2013.** Effects of temperature and water stresses on germination of some varieties of chickpea (*Cicer arietinum*). AFRICAN JOURNAL OF BIOTECHNOLOGY 12, 2201-2206

- 2012** Gendreau *et al.* 2012. S phase of the cell cycle: a key phase for the regulation of thermodormancy in barley grain. JOURNAL OF EXPERIMENTAL BOTANY 63, 5535-5543
- Mayolle et al. 2012.** Water diffusion and enzyme activities during malting of barley grains: A relationship assessment. JOURNAL OF FOOD ENGINEERING 109, 358-365
- Corbineau F. 2012.** Markers of seed quality: from present to future. SEED SCIENCE RESEARCH 22, S61-S68
- Leymarie et al. 2012.** Role of reactive oxygen species in the regulation of Arabidopsis seed dormancy. PLANT AND CELL PHYSIOLOGY 53, 96-106

Gérard Corthier (Correspondant national / Corresponding Member)

- 2014** Corthier G, Leverve K. 2014. Le microbiote, ces bactéries qui nous font du bien. EDITIONS UN K'NOË DANS LES CLOUPS, Collection 'Un livre pour comprendre mon corps', EAN : 9782953219357, 92 p
- 2013** Corthier G. 2013. Notre microbiote, une partie essentielle de nous même. DOSSIER DU GROUPE DE TRAVAIL 'POTENTIELS DE LA SCIENCE POUR L'AVENIR DE L'AGRICULTURE, DE L'ALIMENTATION ET DE L'ENVIRONNEMENT', <http://www.academie-agriculture.fr/groupes-de-reflexion/potentiel-de-la-science-pour-lavenir-de-lagriculture-de-lalimentation-et-de>
- 2012** Morin *et al.* 2012. Delayed bacterial colonization of the gut alters the host immune response to oral sensitization against cow's milk proteins. MOLECULAR NUTRITION & FOOD RESEARCH 56, 1838-1847

Charles Descoins (Membre titulaire / Member)

- 2013** Descoins C. 2013. La protection phytosanitaire des cultures. DOSSIER DU GROUPE DE TRAVAIL 'POTENTIELS DE LA SCIENCE POUR L'AVENIR DE L'AGRICULTURE, DE L'ALIMENTATION ET DE L'ENVIRONNEMENT', <http://www.academie-agriculture.fr/groupes-de-reflexion/potentiel-de-la-science-pour-lavenir-de-lagriculture-de-lalimentation-et-de>
- Descoins C. 2013.** Nouveaux ravageurs, nouveaux défis. C R ACAD AGRICULTURE DE FRANCE n°99 (4), 36

Dusko Ehrlich (Membre titulaire / Member)

- 2014** Li *et al.* 2014. An integrated reference gene catalog of the human gut microbiome, NATURE BIOTECHNOLOGY, in press
- Nan et al. 2014.** Human gut microbiome alterations in liver cirrhosis, NATURE in press
- Henrik et al. 2014.** A method for identifying metagenomic species and variable genetic elements by exhaustive co-abundance binning. NATURE BIOTECHNOLOGY, in press, doi: 10.1038/nbt.2939
- Arumugam et al. 2014.** Enterotypes of the human gut microbiome. NATURE 506, 516
- Kaci et al. 2014.** Anti-inflammatory properties of *Streptococcus salivarius*, a commensal bacterium of the oral cavity and digestive tract. APPLIED AND ENVIRONMENTAL MICROBIOLOGY 80, 928-934
- Juste et al. 2014.** Bacterial protein signals are associated with Crohn's disease. GUT, Jan 16. doi: 10.1136/gutjnl-2012-303786
- Ehrlich SD. 2014.** Microbiote intestinal, l'organe négligé qui porte notre deuxième génome. LETTRE BIMESTRIELLE DE L'ACADEMIE D'AGRICULTURE N°24 - 15 JUIN 2014, 5-8, <http://www.academie-agriculture.fr/publications/lettre-aaf>
- 2013** Sunagawa *et al.* 2013. Metagenomic species profiling using universal phylogenetic marker genes. NATURE METHODS 10, 1196-1199
- Cotillard et al. 2013.** Dietary intervention impact on gut microbial gene richness. NATURE 502, 585-588
- Le Chatelier et al. 2013.** Richness of human gut microbiome correlates with metabolic markers. NATURE 500, 541-546
- Blottiere et al. 2013.** Human intestinal metagenomics: state of the art and future. CURRENT OPINION IN MICROBIOLOGY 16, 232-239
- Tanaka et al. 2013.** Building the repertoire of dispensable chromosome regions in *Bacillus subtilis* entails major refinement of cognate large-scale metabolic model. NUCLEIC ACIDS RESEARCH 41, 687-699
- Lapage et al. 2013.** A metagenomic insight into our gut's microbiome. GUT 62, 146-158

- 2012** Qin *et al.* 2012. A metagenome-wide association study of gut microbiota in type 2 diabetes. NATURE 490, 55-60
- Ehrlich *et al.* 2012.** Discussion from the 24th Marabou Symposium: Nutrition and the human microbiome. NUTRITION REVIEWS 70, S57-S86
- Bolotin *et al.* 2012.** Complete genome sequence of *Lactococcus lactis* subsp *cremoris* A76. JOURNAL OF BACTERIOLOGY 194, 1241-1242

Marie-Thérèse Esquerré-Tugayé (Membre titulaire / Member)

- 2013** Esquerré-Tugayé *et al.* 2013. Les éliciteurs de défense chez les plantes. COMPTES RENDUS DE L'AAF 97, 57-66
- Esquerré-Tugayé M-T. 2013.** Les éliciteurs : perspectives pour une agriculture durable. Contribution à : Descoins C., 2013 "La protection phytosanitaire des cultures", DOSSIER DU GROUPE DE TRAVAIL " POTENTIELS DE LA SCIENCE POUR L'AVENIR DE L'AGRICULTURE, DE L'ALIMENTATION, ET DE L'ENVIRONNEMENT", <http://www.academie-agriculture.fr/groupes-de-reflexion/potentiel-de-la-science-pour-lavenir-de-lagriculture-de-lalimentation-et-de>

Christian Ferault (Membre titulaire / Member)

- 2014** Ferault C. 2014. Chroniques d'une vie érémitique dans les forêts mayennaises, EDITIONS L'HARMATTAN (à paraître)
- Ferault C. 2014.** Parmentier à l'Académie d'Agriculture de France. In : Parmentier et la fabuleuse carrière du tubercule. ACADEMIE DES SCIENCES, ARTS ET LETTRES D'AMIENS, Colloque de septembre 2013, 85-94, ISSN 1279-0370
- Ferault C. 2014.** Histoire de la variété de pomme de terre "Institut de Beauvais" dans le cadre de la naissance et du développement de l'enseignement supérieur agricole en Picardie au XIXe siècle. ACADEMIE DES SCIENCES, ARTS ET LETTRES D'AMIENS, Colloque de septembre 2013, 129-181, ISSN 1279-0370
- Garnotel J, Ferault C. 2014.** L'archipel des organisations agricoles. EDITEUR : FRANCE AGRICOLE (12 février 2014), Collection : FA. ENV. AGRICOLE, ISBN-13: 978-2855572680, 127 p
- Ferault C. 2014.** Les écrits d'Antoine Augustin Parmentier à l'Académie d'Agriculture de France : analyse, apports commentés et mis en perspective, C. R. ACAD. AGRIC. FR. 99(4), 73-80
- 2013** Ferault C. 2013. Bicentenaire du décès d'Antoine Augustin Parmentier : Une activité importante et remarquée à l'Académie d'Agriculture, REVUE DE L'AAF n°1, 71-74
- 2012** Ferault C, Le Chatelier D. 2012. Une histoire des agricultures 2^{ème} édition, revue, augmentée et illustrée. EDITIONS CAMPAGNE ET COMPAGNIE, Paris, ISBN 979-10-90213-09-8, 183 p
- Devaux P, Ferault C. 2012.** Introduction à la séance "Virus végétaux", C. R. ACAD. AGRIC. FR. 97, 1
- Papy F, Mathieu N, Ferault C (éd. sci.). 2012 (n. tir. 2014).** Nouveaux rapports à la nature dans les campagnes. EDITIONS QUAE, Paris, ISBN 978-2-7592-1782-3, 191 p
- Ferault C. 2012.** Une histoire de pomme de terre : la variété Institut de Beauvais. EDITIONS D'EN FACE, Paris, ISBN 978-2-35246-032-9, 142 p
- Sigaut F, Ferault C, Lanly J-P. 2012.** Présentation et coordination de "Deux siècles et demi au service de l'Agriculture, de l'Alimentation et de l'Environnement" (250e anniversaire), C. R. ACAD. AGRI. FR. 97, 4, 193 p.
- Choné E, Ferault C. 2012.** Mathieu de Dombasle à Roville-devant Bayon, C. R. ACAD. AGRIC. FR. 97(4), 79-90
- Choné *et al.* 2012.** Académie d'Agriculture de France : INDEX BIOGRAPHIQUE DES MEMBRES DE 1761 A 2011, 134 p

Jeanne Garric (Correspondant national / Corresponding Member)

- 2014** Bertin *et al.* 2014. Bioaccumulation of perfluoroalkyl compounds in midge (*Chironomus riparius*) larvae exposed to sediment. ENVIRONMENTAL POLLUTION 189, 27-34
- Gust *et al.* 2014.** Caged mudsnail *Potamopyrgus antipodarum* (Gray) as an integrated field biomonitoring tool: Exposure assessment and reprotoxic effects of water column contamination. WATER RESEARCH 54, 222-236

- 2013** Lecomte *et al.* 2013. Organic solvents impair life-trait and biomarkers in the New Zealand mudsnail *Potamopyrgus antipodarum* (Gray) at concentrations below OECD recommendations. AQUATIC TOXICOLOGY 140, 196-203
- Fouqueray *et al.* 2013. Exposure of juvenile *Danio rerio* to aged TiO₂ nanomaterial from sunscreen. ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH 20, 3340-3350
- Gust *et al.* 2013. Effects of short-term exposure to environmentally relevant concentrations of different pharmaceutical mixtures on the immune response of the pond snail *Lymnaea stagnalis*. SCIENCE OF THE TOTAL ENVIRONMENT 445, 210-218
- Gust *et al.* 2013. Immunotoxicity of surface waters contaminated by municipal effluents to the snail *Lymnaea stagnalis*. AQUATIC TOXICOLOGY 126, 393-403
- 2012** Vincent-Hubert *et al.* 2012. DNA strand breaks detected in embryos of the adult snails, *Potamopyrgus antipodarum*, and in neonates exposed to genotoxic chemicals. AQUATIC TOXICOLOGY 122, 1-8
- Dabrin *et al.* 2012. Coupling geochemical and biological approaches to assess the availability of cadmium in freshwater sediment. SCIENCE OF THE TOTAL ENVIRONMENT 424, 308-315
- Fouqueray *et al.* 2012. Effects of aged TiO₂ nanomaterial from sunscreen on *Daphnia magna* exposed by dietary route. ENVIRONMENTAL POLLUTION 163, 55-61
- Besse *et al.* 2012. Anticancer drugs in surface waters. What can we say about the occurrence and environmental significance of cytotoxic, cytostatic and endocrine therapy drugs? ENVIRONMENT INTERNATIONAL 39, 73-86
- Artigas *et al.* 2012. Towards a renewed research agenda in ecotoxicology. ENVIRONMENTAL POLLUTION 160, 201-206

Dominique Job (Membre titulaire / Member)

- 2014** Tanou *et al.* 2014. Polyamines reprogram oxidative and nitrosative status and the proteome of citrus plants exposed to salinity stress. PLANT CELL AND ENVIRONMENT 37, 864-885
- Galland *et al.* 2014. Dynamic proteomics emphasizes the importance of selective mRNA translation and protein turnover during *Arabidopsis* seed germination. MOLECULAR & CELLULAR PROTEOMICS 13, 252-268
- Job D. 2014.** Introduction au colloque : A la découverte des écosystèmes marins (microorganismes - algues) : génomes, biotechnologies, environnement, COLLOQUES DE L'ACADEMIE D'AGRICULTURE DE FRANCE, 27 mars 2014, Job D & Dumas C (Coord.), <http://www.academie-agriculture.fr/colloques/la-decouverte-des-ecosystemes-marins-microorganismes-algues-genomes-biotechnologies>
- 2013** Albert *et al.* 2013. The *Amborella* genome and the evolution of flowering plants. SCIENCE 342 (6165), 1241089 (20 DECEMBER 2013)
- Communiqué de presse du CNRS.** *Amborella*, mémoire de l'évolution des plantes à fleurs, 20 décembre 2013, <http://www.cnrs.fr/presse/communique/3369.htm>
- Agrawal *et al.* 2013. INPPO actions and recognition as a driving force for progress in plant proteomics: Change of guard, INPPO update, and upcoming activities. PROTEOMICS 13, 3093-3100
- Deswal *et al.* 2013. Plant proteomics in India and Nepal: current status and challenges ahead. PHYSIOL MOL BIOL PLANTS 19(4), 461-477
- Agrawal *et al.* 2013. A decade of plant proteomics and mass spectrometry: Translation of technical advancements to food security and safety issues. MASS SPECTROMETRY REVIEWS 32, 335-365
- Yacoubi *et al.* 2013. Proteomic analysis of the enhancement of seed vigour in osmoprimed alfalfa seeds germinated under salinity stress. SEED SCIENCE RESEARCH 23, 99-110
- EI-Maarouf-Bouteau *et al.* 2013. Role of protein and mRNA oxidation in seed dormancy and germination. FRONTIERS IN PLANT SCIENCE 4, Article Number: 77
- Lounifi *et al.* 2013. Interplay between protein carbonylation and nitrosylation in plants. PROTEOMICS 13, 568-578
- Girard *et al.* 2013. Secretomes: The fungal strike force. PROTEOMICS 13, 597-608
- Ray *et al.* 2013. *Pseudomonas putida* KT2440 response to nickel or cobalt induced stress by quantitative proteomics. METALLOMICS 5, 68-79
- 2012** Arc *et al.* 2012. Cold stratification and exogenous nitrates entail similar functional proteome adjustments during *Arabidopsis* seed dormancy release. JOURNAL OF PROTEOME RESEARCH 11, 5418-5432

- Tanou et al.** 2012. Oxidative and nitrosative-based signaling and associated post-translational modifications orchestrate the acclimation of citrus plants to salinity stress. PLANT JOURNAL 72, 585-599
- Agrawal et al.** 2012. Translational plant proteomics: A perspective. JOURNAL OF PROTEOMICS 75, 4588-4601
- Cherrad et al.** 2012. Proteomic analysis of proteins secreted by *Botrytis cinerea* in response to heavy metal toxicity. METALLOMICS 4, 835-846
- Minas et al.** 2012. Physiological and proteomic approaches to address the active role of ozone in kiwifruit post-harvest ripening. JOURNAL OF EXPERIMENTAL BOTANY 63, 2449-2464
- Catusse et al.** 2012. Proteomics reveals a potential role of the perisperm in starch remobilization during sugarbeet seed germination. In: Seed Development: OMICS Technologies toward Improvement of Seed Quality and Crop Yield, SPRINGER-NETHERLANDS, pp 27-41
- Galland et al.** 2012. A role for "Omics" technologies in exploration of the seed nutritional quality. In: Seed Development: OMICS Technologies toward Improvement of Seed Quality and Crop Yield, SPRINGER-NETHERLANDS, pp 477-501
- Agrawal et al.** 2012. Boosting the globalization of plant proteomics through INPPO: current developments and future prospects. PROTEOMICS 12, 359-368
- Lee et al.** 2012. Seed development: OMICS technologies toward improvement of seed quality and crop yield. PLANT OMICS 5, 458-465
- Galland et al.** 2012. The seed proteome web portal. FRONTIERS IN PLANT SCIENCE 3, Article Number: 98
- Rajjou et al.** 2012. Seed germination and vigor. ANNUAL REVIEW OF PLANT BIOLOGY 63, 507-533

Sophien Kamoun (Correspondant associé / Foreign Corresponding Member)

- 2014** Kamoun S. 2014. Wonders of the plant-microbe interactions world. IS-MPMI REPORTER 2014:2, http://kamounlab.dreamhosters.com/pdfs/ISMPMIReporter_2014b.pdf
- Alfred et al. 2014. New horizons for plant translational research. PLoS BIOLOGY, 12:e1001880
- Lee et al. 2014. Multiple recognition of RXLR effectors is associated with nonhost resistance of pepper against *Phytophthora infestans*. NEW PHYTOLOGIST, in press, http://kamounlab.dreamhosters.com/pdfs/NewPhytol_2014.pdf
- Bozkurt et al. 2014. The plant membrane-associated REM1.3 remorin accumulates in discrete perihastorial domains and enhances susceptibility to *Phytophthora infestans*. PLANT PHYSIOLOGY, in press, http://kamounlab.dreamhosters.com/pdfs/PlantPhys_2014b.pdf
- Kamoun S. 2014. Keeping up with the plant destroyers. PlantVillage. [Blog post], <https://medium.com/@plantvillage/keeping-up-with-the-plant-destroyers-9c0047899683>
- Saunders et al. 2014. Crowdsourced analysis of ash and ash dieback through the open ash dieback project: a year 1 report on datasets and analyses contributed by a self-organising community. BIORXIV, 5:98, <http://biorkiv.org/content/early/2014/04/25/004564>
- Segretin et al. 2014. Single amino acid mutations in the potato immune receptor R3a expand response to *Phytophthora* effectors. MOLECULAR PLANT-MICROBE INTERACTIONS, in press, http://kamounlab.dreamhosters.com/pdfs/MPMI_2014.pdf
- Yoshida et al. 2014. Mining herbaria for plant pathogen genomes: back to the future. PLoS PATHOGENS 10, e1004028
- Saunders et al. 2014. Two-dimensional data binning for the analysis of genome architecture in filamentous plant pathogens and other eukaryotes. In "Plant-Pathogen Interactions: Methods and Protocols", P. Birch, J. Jones, and J. Bos, eds. METHODS IN MOLECULAR BIOLOGY 1127, 29-51
- Nemri et al. 2014. The genome sequence and effector complement of the flax rust pathogen *Melampsora lini*. FRONTIERS IN PLANT SCIENCE 5, Article Number: 98
- King et al. 2014. *Phytophthora infestans* RXLR effector PexRD2 Interacts with host MAPKK epsilon to suppress plant immune signaling. PLANT CELL 26, 1345-1359
- Petre B, Kamoun S. 2014. Unsolved mystery. How do filamentous pathogens deliver effector proteins into plant cells? PLoS BIOLOGY 12, e1001801
- Dong et al. 2014. Effector specialization in a lineage of the Irish potato famine pathogen. SCIENCE 343, 552-555
- Lin et al. 2014. Single nucleus genome sequencing reveals high similarity among nuclei of an endomycorrhizal fungus. PLoS GENETICS, e1004078

- 2013**
- Qi et al.** 2013. A genomic variation map provides insights into the genetic basis of cucumber domestication and diversity. *NATURE GENETICS* 45, 1510-1515
 - Belhaj et al.** 2013. Plant genome editing made easy: targeted mutagenesis in model and crop plants using the CRISPR/Cas system. *PLANT METHODS* 9, Article Number: 39
 - Kosugi et al.** 2013. Coval: improving alignment quality and variant calling accuracy for next-generation sequencing data. *PLoS ONE* 8, e75402
 - Takagi et al.** 2013. MutMap-Gap: whole-genome resequencing of mutant F2 progeny bulk combined with de novo assembly of gap regions identifies the rice blast resistance gene *Pii*. *NEW PHYTOLOGIST* 200, 276-283
 - Cano et al.** 2013. Major transcriptome reprogramming underlies floral mimicry induced by the rust fungus *Puccinia monoica* in *Boechera stricta*. *PLoS ONE* 8, e75293
 - Nekrasov et al.** 2013. Targeted mutagenesis in the model plant *Nicotiana benthamiana* using Cas9 RNA-guided endonuclease. *NATURE BIOTECHNOLOGY* 31, 691-693
 - Kamoun S.** 2013. Science on the Med. IS-MPMI Reporter, 2013:2, http://kamounlab.dreamhosters.com/pdfs/ISMPMIReporter_2013b.pdf
 - Fekih et al.** 2013. MutMap plus: genetic mapping and mutant identification without crossing in rice. *PLoS ONE*, e68529
 - Yoshida et al.** 2013. The rise and fall of the *Phytophthora infestans* lineage that triggered the Irish potato famine. *ELIFE* 2, e01108
 - Xia et al.** 2013. Regulation of transcription of nucleotide-binding leucine-rich repeat-encoding genes *SNC1* and *RPP4* via H3K4 trimethylation. *PLANT PHYSIOLOGY* 162, 1694-1705
 - Banfield M, Kamoun S.** 2013. Hooked and cooked: a fish killer genome exposed. *PLoS GENETICS* 9, e1003590
 - Sharma et al.** 2013. Deployment of the *Burkholderia glumae* type III secretion system as an efficient tool for translocating pathogen effectors to monocot cells. *PLANT JOURNAL* 74, 701-712
 - Cantu et al.** 2013. Genome analyses of the wheat yellow (stripe) rust pathogen *Puccinia striiformis* f. sp *tritici* reveal polymorphic and haustorial expressed secreted proteins as candidate effectors. *BMC GENOMICS* 14, Article Number: 270
 - Takagi et al.** 2013. QTL-seq: rapid mapping of quantitative trait loci in rice by whole genome resequencing of DNA from two bulked populations. *PLANT JOURNAL* 74, 174-183
 - Sanders et al.** 2013. Comment on "Long term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize" by Seralini et al. *FOOD AND CHEMICAL TOXICOLOGY* 53, 435-438
 - Pais et al.** 2013. From pathogen genomes to host plant processes: the power of plant parasitic oomycetes. *GENOME BIOLOGY* 14, Article Number: 211
- 2012**
- Wang et al.** 2012. A common signaling process that promotes mycorrhizal and oomycete colonization of plants. *CURRENT BIOLOGY* 22, 2242-2246
 - Cooke et al.** 2012. Genome analyses of an aggressive and invasive lineage of the Irish potato famine pathogen. *PLoS PATHOGENS* 8, e1002940
 - Lamour et al.** 2012. Genome sequencing and mapping reveal loss of heterozygosity as a mechanism for rapid adaptation in the vegetable pathogen *Phytophthora capsici*. *MOLECULAR PLANT-MICROBE INTERACTIONS* 25, 1350-1360
 - van Damme et al.** 2012. The Irish potato famine pathogen *Phytophthora infestans* translocates the crn8 kinase into host plant cells. *PLoS PATHOGENS* 8, e1002875
 - Saunders et al.** 2012. Host protein BSL1 associates with *Phytophthora infestans* RXLR effector AVR2 and the *Solanum demissum* Immune receptor R2 to mediate disease resistance. *PLANT CELL* 24, 3420-3434
 - Bozkurt et al.** 2012. Oomycetes, effectors, and all that jazz. *CURRENT OPINION IN PLANT BIOLOGY* 15, 483-492
 - Youle et al.** 2012. The microbial Olympics. *NATURE REVIEWS MICROBIOLOGY* 10, 583-588
 - Kamoun S., Ward, E.** 2012. Next-generation disease resistance breeding: Crop plants with DNA deletions are not GMOs. Biofortified. [Blog post], <http://www.biofortified.org/2012/05/next-gen-disease-resistance/>
 - Rietman et al.** 2012. Qualitative and quantitative late blight resistance in the potato cultivar Sarpo Mira is determined by the perception of five distinct RXLR effectors. *MOLECULAR PLANT-MICROBE INTERACTIONS* 25, 910-919
 - Raffaele S, Kamoun S.** 2012. Genome evolution in filamentous plant pathogens: why bigger can be better. *NATURE REVIEWS MICROBIOLOGY* 10, 417-430

- Saitoh et al. 2012.** Large-scale gene disruption in *Magnaporthe oryzae* identifies MC69, a secreted protein required for infection by monocot and dicot fungal pathogens. PLoS PATHOGENS 8, e1002711
- Lu et al. 2012.** Patterns of plant subcellular responses to successful oomycete infections reveal differences in host cell reprogramming and endocytic trafficking. CELLULAR MICROBIOLOGY 14, 682-697
- Abe et al. 2012.** Genome sequencing reveals agronomically important loci in rice using MutMap. NATURE BIOTECHNOLOGY 30, 174-178
- Saunders et al. 2012.** Using hierarchical clustering of secreted protein families to classify and rank candidate effectors of rust fungi. PLoS ONE 7, e29847
- MacLean D, Kamoun S. 2012.** Big data in small places. NATURE BIOTECHNOLOGY, 30, 33-34
- Win et al. 2012.** Sequence divergent RXLR effectors share a structural fold conserved across plant pathogenic oomycete species. PLoS PATHOGENS 8, e1002400
- Win et al. 2012.** Effector biology of plant-associated organisms: concepts and perspectives. COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY 77, 235-247

Eva Kondorosi (Membre associé / Foreign Member)

- 2014** Maróti G, Kondorosi E. 2014. Nitrogen-fixing Rhizobium-legume symbiosis: Are polyploidy and host peptide-governed symbiont differentiation general principles of endosymbiosis? FRONTIERS IN MICROBIOLOGY 5, 326, doi:10.3389/fmicb.2014.00326
- Boboescu et al. 2014.** Simultaneous biohydrogen production and wastewater treatment based on the selective enrichment of the fermentation ecosystem. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY 39 (3), 1502-1510
- Gherman et al. 2014.** An acidophilic bacterial- archaeal- fungal ecosystem linked to formation of ferruginous crusts and stalactites. GEOMICROBIOLOGY JOURNAL 31, 407-418
- Farkas et al. 2014.** *Medicago truncatula* symbiotic peptide NCR247 contributes to bacteroid differentiation through multiple mechanisms. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 111, 5183-5188
- 2013** Tiricz et al. 2013. Antimicrobial nodule-specific cysteine-rich peptides induce membrane depolarization-associated changes in the transcriptome of *Sinorhizobium meliloti*. APPLIED AND ENVIRONMENTAL MICROBIOLOGY 79, 6737-6746
- Sinharoy et al. 2013.** The C2H2 Transcription Factor REGULATOR OF SYMBIOSOME DIFFERENTIATION represses transcription of the secretory pathway gene *VAMP721a* and promotes symbosome development in *Medicago truncatula*. PLANT CELL 25, 3584-3601
- Balaban et al. 2013.** Complementary and dose-dependent action of AtCCS52A isoforms in endoreduplication and plant size control. NEW PHYTOLOGIST 198, 1049-1059
- Kondorosi et al. 2013.** A paradigm for endosymbiotic life: cell differentiation of rhizobium bacteria provoked by host plant factors. ANNUAL REVIEW OF MICROBIOLOGY 67, 611-628
- Meral et al. 2013.** The late steps of plant nonsense-mediated mRNA decay. PLANT JOURNAL 73, 50-62
- Filkor et al. 2013.** Genome wide transcriptome analysis of dendritic cells identifies genes with altered expression in psoriasis. PLoS ONE 8 (9), e73435
- 2012** Redondo-Nieto et al. 2012. Boron and calcium induce major changes in gene expression during legume nodule organogenesis. Does boron have a role in signalling? NEW PHYTOLOGIST 195, 14-19
- Mergaert P, Kondorosi E. 2012.** Controlling symbiotic microbes with antimicrobial peptides. SMALL WONDERS: PEPTIDES FOR DISEASE CONTROL Book Series: ACS Symposium Series 1095 215-233

Catherine Lapierre (Correspondant national / Corresponding Member)

- 2014** Mechini et al. 2014. Impact of the brown-midrib *bm5* mutation on maize lignins. JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY 62, 5102-5107
- Petrick et al. 2014.** p-Coumaroyl-CoA:monolignol transferase (PMT) acts specifically in the lignin biosynthetic pathway in *Brachypodium distachyon*. PLANT JOURNAL 77, 713-726

- Van Acker et al. 2014.** Improved saccharification and ethanol yield from field-grown transgenic poplar deficient in cinnamoyl-CoA reductase. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 111, 845-850
- 2013 Dalmais et al. 2013.** A TILLING platform for functional genomics in *Brachypodium distachyon*. PLoS ONE 8, e65503
- Sipponen et al. 2013.** Isolation of structurally distinct lignin-carbohydrate fractions from maize stem by sequential alkaline extractions and endoglucanase treatment. BIORESOURCE TECHNOLOGY 133, 522-528
- d'Yvoire et al. 2013.** Disrupting the cinnamyl alcohol dehydrogenase 1 gene (*BdCAD1*) leads to altered lignification and improved saccharification in *Brachypodium distachyon*. PLANT JOURNAL 73, 496-508
- 2012 Chapelle et al. 2012.** Impact of the absence of stem-specific beta-glucosidases on lignin and monolignols. PLANT PHYSIOLOGY 160, 1204-1217
- Fornale et al. 2012.** Altered lignin biosynthesis improves cellulosic bioethanol production in transgenic maize plants down-regulated for cinnamyl alcohol dehydrogenase. MOLECULAR PLANT 5, 817-830
- Naseer et al. 2012.** Caspary strip diffusion barrier in *Arabidopsis* is made of a lignin polymer without suberin. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 109, 10101-10106
- Richet et al. 2012.** Elevated CO₂ and/or ozone modify lignification in the wood of poplars (*Populus tremula x alba*). JOURNAL OF EXPERIMENTAL BOTANY 63, 4291-4301
- Eudes et al. 2012.** Biosynthesis and incorporation of side-chain-truncated lignin monomers to reduce lignin polymerization and enhance saccharification. PLANT BIOTECHNOLOGY JOURNAL 10, 609-620
- Berthet et al. 2012.** Role of plant laccases in lignin polymerization. ADVANCES IN BOTANICAL RESEARCH 61, 145-172
- Jouanin L (Editor), Lapierre C (Editor). 2012.** ADVANCES IN BOTANICAL RESEARCH: LIGNINS: BIOSYNTHESIS, BIODEGRADATION AND BIOENGINEERING 61, ISBN: 0124160239, 440 p

Hubert Laude (Correspondant national / Corresponding Member)

- 2014 Bellon et al. 2014.** Decontamination of prions in a plasma product manufacturing environment. TRANSFUSION 54, 1028-1036
- Moudjou et al. 2014.** Highly infectious prions generated by a single round of microplate-based protein misfolding cyclic amplification. MBIO 5, e00829
- 2013 Laferriere et al. 2013.** Quaternary structure of pathological prion protein as a determining factor of strain-specific prion replication dynamics. PLoS PATHOGENS 9, e1003702
- Segarra et al. 2013.** Plasminogen-based capture combined with amplification technology for the detection of PrP^{TSE} in the pre-clinical phase of infection. PLoS ONE 8, e69632
- Halliez et al. 2013.** Targeted knock-down of cellular prion protein expression in myelinating Schwann cells does not alter mouse prion pathogenesis. JOURNAL OF GENERAL VIROLOGY 94, 1435-1440
- Xia et al. 2013.** Glycoform-selective prion formation in sporadic and familial forms of prion disease. PLoS ONE 8, e58786
- Passet et al. 2013.** The prion protein family. Looking outside the central nervous system. PRION 7, 127-130
- Salamat et al. 2013.** Mammalian prions. Tolerance to sequence changes-how far? PRION 7, 131-135
- 2012 Cronier et al. 2012.** Endogenous prion protein conversion is required for prion-induced neuritic alterations and neuronal death. FASEB JOURNAL 26, 3854-3861
- Passet et al. 2012.** Prion protein and Shadoo are involved in overlapping embryonic pathways and trophoblastic development. PLoS ONE 7, e41959
- Laude H. 2012.** Insight on the biology and nature of the agents causing transmissible spongiform encephalopathies. BULLETIN DE L'ACADEMIE VETERINAIRE DE FRANCE 165, 233-237
- Beringue et al. 2012.** Tissue-specific cross-species transmission of prions. M S-MEDECINE SCIENCES, 565-568
- Salamat et al. 2012.** Integrity of helix 2-helix 3 domain of the PrP protein is not mandatory for prion replication. JOURNAL OF BIOLOGICAL CHEMISTRY 287, 18953-18964

- Beck et al.** 2012. Use of murine bioassay to resolve ovine transmissible spongiform encephalopathy cases showing a bovine spongiform encephalopathy molecular profile. BRAIN PATHOLOGY 22, 265-279
- Beringue et al.** 2012. Facilitated cross-species transmission of prions in extraneural tissue. SCIENCE 335, 472-475

Arlette Laval (Correspondant national / Corresponding Member)

- 2014** Avis de l'ANSES - Contribution au rapport d'expertise collective : Évaluation des risques d'émergence d'antibiorésistances liés aux modes d'utilisation des antibiotiques dans le domaine de la santé animale, ANSES, avril 2014, <http://www.anses.fr/fr/documents/SANT2011sa0071Ra.pdf>, 218 p
- 2013** Lebret et al. 2013. Case report - Diagnostic limits of lung lesions scoring at slaughter for the evaluation of dynamics of *Mycoplasma hyopneumoniae* infection. REVUE DE MEDECINE VETERINAIRE 164, 429-434
- Laval A.** 2013. La visite de l'élevage porcin 5ème partie. Les contaminants infectieux. NOUVEAU PRATICIEN VÉTÉRINAIRE ELEVAGE ET SANTÉ 6, 52-57
- Mallem et al.** 2013. Avancées majeures dans le domaine du médicament vétérinaire au cours des 40 dernières années. LE POINT VETERINAIRE 340, 24-29
- 2012** Normand et al. 2012. Anaemia in the sow: a cohort study to assess factors with an impact on haemoglobin concentration, and the influence of haemoglobin concentration on the reproductive performance. VETERINARY RECORD 171, 350
- Kolf-Clauw et al. 2012. Acute poisoning of wild boars by H₂S: Wildlife as sentinels for environmental hazard. TOXICOLOGY LETTERS 211, S92-S93

Peter John Lea (Membre associé / Foreign Member)

- 2014** Simons et al. 2014. Nitrogen-use efficiency in maize (*Zea mays* L.): from 'omics' studies to metabolic modeling. JOURNAL OF EXPERIMENTAL BOTANY in press, doi: 10.1093/jxb/eru227
- Azevedo et al. 2014. The centenary of Annals of Applied Biology in 2014. ANNALS OF APPLIED BIOLOGY 164, 1-7
- 2013** Andrews M, Lea PJ. 2013. Our nitrogen "footprint": the need for increased crop nitrogen use efficiency. ANNALS OF APPLIED BIOLOGY 163, 165-169
- Andrews et al. 2013. Do plants need nitrate? The mechanisms by which nitrogen form affects plants. ANNALS OF APPLIED BIOLOGY, 174-199
- Fontaine et al. 2013. Further insights into the isoenzyme composition and activity of glutamate dehydrogenase in *Arabidopsis thaliana*. PLANT SIGNALING & BEHAVIOUR 8, e23329
- 2012** Fontaine et al. 2012. Characterization of a NADH-dependent glutamate dehydrogenase mutant of *Arabidopsis* demonstrates the key role of this enzyme in root carbon and nitrogen metabolism. PLANT CELL 24, 4044-4065

Christian Lévêque (Membre titulaire / Member)

- 2014** Lévêque C. 2014. Which fishculture for tomorrow? CAHIERS AGRICULTURES 23, 1-2
- Lévêque C. 2014. La biodiversité en Europe. Cherchez le naturel ! PAYSANS 345, 27-36
- Lévêque C. 2014. L'Agence française pour la biodiversité : un autre « machin » ? LETTRE BIMESTRIELLE de l'Académie d'Agriculture N°23 - 15 AVRIL 2014, 15-16, <http://www.academie-agriculture.fr/publications/lettre-aaf>
- Lévêque C. 2014. Eau et agriculture. Débats et perspectives. REVUE DE L'ACADEMIE D'AGRICULTURE N°3, 11-15, <http://www.academie-agriculture.fr/publications/revue-aaf>
- Lévêque C. 2014. Les relations complexes entre sciences et citoyens. REVUE DE L'ACADEMIE D'AGRICULTURE N°2, 29-34, <http://www.academie-agriculture.fr/publications/revue-aaf>
- 2013** Lévêque C. 2013. L'écologie est-elle encore scientifique ? EDITIOS QUAE, Collection Essais, ISBN : 978-2-7592-1916-2, 144 p
- Lévêque C. (Coord.) 2013. Eau et agriculture. Débats et perspectives. RAPPORT DU GROUPE 'EAU' DE L'ACADEMIE D'AGRICULTURE DE FRANCE, 150 p, <http://www.academie-agriculture.fr/groupes-de-reflexion/eau-et-agriculture>
- 2012** Degrémont C, Lévêque C. (coord.). 2012. La Seine en Normandie. Ouvrage collectif, EDITEUR ROUEN, GIP SEINE AVAL, ISBN 978-2-7466-4238-6, 228 p
- Lévêque et al. 2012. Les espèces exotiques envahissantes : pour une remise en cause des paradigmes écologiques, [en ligne], Revue SET, 6, 2-9

Francis Martin (Correspondant national / Corresponding Member)

- 2014** **Pielt et al.** 2014. Effector MiSSP7 of the mutualistic fungus *Laccaria bicolor* stabilizes the *Populus* JAZ6 protein and represses jasmonic acid (JA) responsive genes. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 111, 8299-8304
- Pendleton et al.** 2014. Duplications and losses in gene families of rust pathogens highlight putative effectors. FRONTIERS IN PLANT SCIENCES, doi: 10.3389/fpls.2014.00299
- Riley et al.** 2014. Extensive sampling of basidiomycete genomes demonstrates inadequacy of the white-rot/brown-rot paradigm for wood decay fungi. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES USA, doi/10.1073/pnas.1400592111
- Bödeker et al.** 2014. Ectomycorrhizal *Cortinarius* species participate in enzymatic oxidation of humus in northern forest ecosystems. NEW PHYTOLOGIST, doi: 10.1111/nph.12791
- Tschaplinski et al.** 2014. *Populus trichocarpa* and *Populus deltoides* exhibit different metabolomic responses to colonization by the symbiotic fungus *Laccaria bicolor*. MOLECULAR PLANT-MICROBE INTERACTIONS 27, 546-556
- Pielt et al.** 2014. Ethylene and jasmonic acid act as negative modulators during mutualistic symbiosis between *Laccaria bicolor* and *Populus* roots. NEW PHYTOLOGIST 202, 270-286
- Martin F.** 2014. Genomics of plant-related fungi. ADVANCES IN BOTANICAL RESEARCH, ELSEVIER
- Martin F., Kohler A.** 2014. The mycorrhizal symbiosis genomics. In THE ECOLOGICAL GENOMICS OF FUNGI (Edited by Francis Martin) JOHN WILEY & SONS, INC, pp. 169-189
- 2013** **Martin F. (ed).** 2013. Index, in The ecological genomics of fungi, JOHN WILEY & SONS, INC, Hoboken, NJ. doi: 10.1002/9781118735893.index
- Riley et al.** 2013. Extreme diversification of the mating type-high-mobility group (MATA-HMG) gene family in a plant-associated arbuscular mycorrhizal fungus. NEW PHYTOLOGIST 201, 254-268
- Tisserant et al.** 2013. The genome of an arbuscular mycorrhizal fungus provides insight into the oldest plant symbiosis. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 110, 20117-20122
- Patyshakuliya et al.** 2013. Carbohydrate utilization and metabolism is highly differentiated in *Agaricus bisporus*. BMC GENOMICS 4, Article Number: 663
- Selosse MA, Martin F.** 2013. Mycorrhizas and New Phytologist: une vraie histoire d'amour. NEW PHYTOLOGIST 200, 587-589
- Murat et al.** 2013. Fine-scale spatial genetic structure of the black truffle (*Tuber melanosporum*) investigated with neutral microsatellites and functional mating type genes. NEW PHYTOLOGIST 199, 176-187
- Gugerli et al.** 2013. Community genetics in the time of next-generation molecular technologies. MOLECULAR ECOLOGY 22, 3198-3207
- Hacquard et al.** 2013. Laser microdissection and microarray analysis of *Tuber melanosporum* ectomycorrhizas reveal functional heterogeneity between mantle and Hartig net compartments. ENVIRONMENTAL MICROBIOLOGY 15, 1853-1869
- Tyler et al.** 2013. Microbe-independent entry of oomycete RxLR effectors and fungal RxLR-like effectors into plant and animal cells is specific and reproducible. MOLECULAR PLANT-MICROBE INTERACTIONS 26, 611-616
- Sukumar et al.** 2013. Involvement of auxin pathways in modulating root architecture during beneficial plant microorganism interactions. PLANT CELL AND ENVIRONMENT 36, 909-919
- Molinier et al.** 2013. First identification of polymorphic microsatellite markers in the Burgundy truffle, *Tuber aestivum* (*Tuberaceae*). APPLICATIONS IN PLANT SCIENCES 1(2), 1200220
- Uroz et al.** 2013. Functional assays and metagenomic analyses reveals differences between the microbial communities inhabiting the soil horizons of a Norway spruce plantation. PLoS ONE 8, e55929
- Pielt et al.** 2013. Ethylene and jasmonic acid act as negative modulators during mutualistic symbiosis between *Laccaria bicolor* and *Populus* roots. NEW PHYTOLOGIST 202, 270-286

- Plett JM, Kohler A, Martin F.** 2013. De-constructing a mutualist: how the molecular blueprints of model symbiotic fungi AAE changing our understanding of mutualism. In: *FUNGAL ASSOCIATIONS*, 2nd Edition, The Mycota IX, B. Hock (Ed.), SPRINGER-VERLAG BERLIN HEIDELBERG
- Martin F, Bonito G.** 2013. Ten years of genomics for ectomycorrhizal fungi: what have we achieved and where are we heading? In: *EDIBLE ECTOMYCORRHIZAL MUSHROOMS* (Zambonelli A & Bonito B, Ed.), Soil Biology Series, SPRINGER-VERLAG BERLIN HEIDELBERG
- Veneault-Fourrey C, Martin F.** 2013. New insights into ectomycorrhizal symbiosis evolution and function. In *AGRICULTURAL APPLICATIONS*, 2nd edition, The Mycota XI, F Kempken (Ed.) in press
- Veneault-Fourrey C, Plett JM, Martin F.** 2013. Who is controlling whom within ectomycorrhiza symbiosis: insights from genomic and functional analyses. *MOLECULAR MICROBIAL ECOLOGY OF THE RHIZOSPHERE*, Vol I & II, de Bruijn FJ (Ed.), WILEY BLACKWELL, in press
- Tunlid et al.** 2013. Genomics and spectroscopy provide novel insights into the mechanisms of litter decomposition and nitrogen assimilation by ectomycorrhizal fungi. *GENOMICS OF SOIL-AND PLANT-ASSOCIATED FUNGI*, SPRINGER BERLIN HEIDELBERG, pp. 191-211
- 2012** **Rigal et al.** 2012. The AINTEGUMENTA LIKE1 homeotic transcription factor PtAIL1 controls the formation of adventitious root primordia in poplar. *PLANT PHYSIOLOGY* 160, 1996-2006
- Petre et al.** 2012. RNA-Seq of early-infected poplar leaves by the rust pathogen *Melampsora larici-populina* uncovers PtSultr3;5, a fungal-induced host sulfate transporter. *PLoS ONE* 7, e44408
- Labbe et al.** 2012. Characterization of transposable elements in the ectomycorrhizal fungus *Laccaria bicolor*. *PLoS ONE* 7, e40197
- Danielsen et al.** 2012. Fungal soil communities in a young transgenic poplar plantation form a rich reservoir for fungal root communities. *ECOLOGY AND EVOLUTION* 2, 1935-1948
- Floudas et al.** 2012. The paleozoic origin of enzymatic lignin decomposition reconstructed from 31 fungal genomes. *SCIENCE* 336, 1715-1719
- Balestrini et al.** 2012. Genome-wide analysis of cell wall-related genes in *Tuber melanosporum*. *CURRENT GENETICS* 58, 165-177
- Olson et al.** 2012. Insight into trade-off between wood decay and parasitism from the genome of a fungal forest pathogen. *NEW PHYTOLOGIST* 194, 1001-1013
- Hortal et al.** 2012. Beech roots are simultaneously colonized by multiple genets of the ectomycorrhizal fungus *Laccaria amethystina* clustered in two genetic groups. *MOLECULAR ECOLOGY* 21, 2116-2129
- Johnson et al.** 2012. The importance of individuals: intraspecific diversity of mycorrhizal plants and fungi in ecosystems. *NEW PHYTOLOGIST* 194, 614-628
- Lopez et al.** 2012. Insights into *Populus* XIP aquaporins: evolutionary expansion, protein functionality, and environmental regulation. *JOURNAL OF EXPERIMENTAL BOTANY* 63, 2217-2230
- Plett et al.** 2012. Phylogenetic, genomic organization and expression analysis of hydrophobin genes in the ectomycorrhizal basidiomycete *Laccaria bicolor*. *FUNERAL GENETICS AND BIOLOGY* 49, 199-209
- Hacquard et al.** 2012. A comprehensive analysis of genes encoding small secreted proteins identifies candidate effectors in *Melampsora larici-populina* (Poplar Leaf Rust). *MOLECULAR PLANT-MICROBE INTERACTIONS* 25, 279-293
- Tisserant et al.** 2012. The transcriptome of the arbuscular mycorrhizal fungus *Glomus intraradices* (DAOM 197198) reveals functional tradeoffs in an obligate symbiont. *NEW PHYTOLOGIST* 193, 755-769
- Vincent et al.** 2012. Secretome of the free-living mycelium from the ectomycorrhizal basidiomycete *Laccaria bicolor*. *JOURNAL OF PROTEOME RESEARCH* 11, 157-171
- Vincenot et al.** 2012. Extensive gene flow over Europe and possible speciation over Eurasia in the ectomycorrhizal basidiomycete *Laccaria amethystina* complex. *MOLECULAR ECOLOGY* 21, 281-299
- Plett JM, Martin F.** 2012. Poplar root exudates contain compounds that induce the expression of MiSSP7 in *Laccaria bicolor*. *PLANT SIGNALING & BEHAVIOR* 7, 12-15

Bernard Mauchamp (Correspondant national / Corresponding Member)

- 2014** **Mauchamp A.** 2014. Corédacteur d'un ouvrage collectif. Pourrons-nous vivre sans OGM ? 60 clés pour comprendre les biotechnologies végétales (Dattée Y, Pelletier G, Coord.), EDITIONS QUAE (20 février 2014), Collection : Clés pour comprendre, 144 p, ISBN-13: 978-2759220588
- 2013** **Subbaiah et al.** 2013. Engineering silkworms for resistance to baculovirus through multigene RNA interference. GENETICS 193, 63-75
- 2012** **Colomban et al.** 2012. Origin of the variability of the mechanical properties of silk fibres: 1-The relationship between disorder, hydration and stress/strain behavior. JOURNAL OF RAMAN SPECTROSCOPY 43, 425-432
- Bernard JL, Mauchamp B.** 2012. La protection des cultures et ses particularités en agriculture biologique. In: Le tout bio est-il possible? 90 clés pour comprendre l'agriculture biologique. Coordinateur Bernard Le Buanec, EDITIONS QUAE - Collection Clés pour comprendre juillet 2012, ISBN : 978-2-7592-1772-4, 240 p

Jean-Claude Mounolou (Membre titulaire / Member)

- 2014** **Mounolou JC.** 2014. Biologica Acta. Modélisation et Interdisciplinarité, dir. Mathieu, N. et Schmid, F., EDITION QUAE, 97-103.
- Mounolou JC.** 2014. Nouvelles connaissances en biologie, nouvelles démarches, nouvelles frontières... LETTRE BIMESTRIELLE de l'Académie d'Agriculture N°24 - 15 JUIN 2014, 3-5, <http://www.academie-agriculture.fr/publications/lettre-aaf>
- Mounolou JC.** 2014. Avis n°4 du Comité consultatif commun d'Éthique de l'Inra et du Cirad pour la Recherche agronomique sur les nanosciences et les nanotechnologies. LETTRE BIMESTRIELLE de l'Académie d'Agriculture N°21 - JANVIER 2014, <http://www.academie-agriculture.fr/publications/lettre-aaf>
- 2012** **Casaubieilh J, Mounolou JC.** 2012. Citoyens en quête de démocratie locale. L'institution patrimoniale du Haut-Béarn. C R ACAD AGRI 97, 3, 155-159.

Jean-François Morot-Gaudry (Membre titulaire / Member)

- 2013** **Morot-Gaudry JF, Pernollet JC.** 2013. Chimie verte. Les bioproduits non alimentaires. DOSSIER DU GROUPE DE TRAVAIL 'POTENTIELS DE LA SCIENCE POUR L'AVENIR DE L'AGRICULTURE, DE L'ALIMENTATION ET DE L'ENVIRONNEMENT', <http://www.academie-agriculture.fr/groupes-de-reflexion/potentiel-de-la-science-pour-lavenir-de-lagriculture-de-lalimentation-et-de>
- Morot-Gaudry JF.** 2013. Nutrition minérale des plantes : aspects moléculaires. DOSSIER DU GROUPE DE TRAVAIL 'POTENTIELS DE LA SCIENCE POUR L'AVENIR DE L'AGRICULTURE, DE L'ALIMENTATION ET DE L'ENVIRONNEMENT', <http://www.academie-agriculture.fr/groupes-de-reflexion/potentiel-de-la-science-pour-lavenir-de-lagriculture-de-lalimentation-et-de>
- Morot-Gaudry JF, Laufs P.** 2013. Méristèmes et architecture des plantes. DOSSIER DU GROUPE DE TRAVAIL 'POTENTIELS DE LA SCIENCE POUR L'AVENIR DE L'AGRICULTURE, DE L'ALIMENTATION ET DE L'ENVIRONNEMENT', <http://www.academie-agriculture.fr/groupes-de-reflexion/potentiel-de-la-science-pour-lavenir-de-lagriculture-de-lalimentation-et-de>
- Morot-Gaudry JF.** 2013. La photosynthèse. Emission 'LA SCIENCE INFUSE EN 120 SECONDES', mardi 4 juin 2013, France Inter, <http://www.franceinter.fr/emission-la-science-infuse-en-120-secondes-la-photosynthese>

Luis Navarro (Correspondant associé / Foreign Corresponding Member)

- Agüero et al.** 2014. Effectiveness of gene silencing induced by viral vectors based on Citrus leaf blotch virus is different in *Nicotiana benthamiana* and citrus plants. VIROLOGY 460-461, 154-164.
- Wu et al.** 2014. Sequencing of diverse mandarin, pummelo and orange genomes reveals complex history of admixture during citrus domestication. NATURE BIOTECHNOLOGY, doi:10.1038/nbt.2906
- 2013** **Castillo et al.** 2013. Identification of transcription factors potentially involved in the juvenile to adult phase transition in Citrus. ANNALS OF BOTANY 112 1371-1381
- Vives et al.** 2013. Identification of a new enameovirus associated with citrus vein enation disease by deep sequencing of small RNAs. PHYTOPATHOLOGY 103, 1077-1086
- Germana et al.** 2013. Cytological and molecular characterization of three gametoclones of *Citrus clementina*. BMC PLANT BIOLOGY 13, Article Number: 129

- Agüero et al. 2013.** Citrus leaf blotch virus invades meristematic regions in *Nicotiana benthamiana* and citrus. MOLECULAR PLANT PATHOLOGY 14, 610-
- Allario et al. 2013.** Tetraploid Rangpur lime rootstock increases drought tolerance via enhanced constitutive root abscisic acid production. PLANT CELL AND ENVIRONMENT 36, 856-868
- Cuenca et al. 2013.** Assignment of SNP allelic configuration in polyploids using competitive allele-specific PCR: application to citrus triploid progeny. ANNALS OF BOTANY 111, 731-742
- Garcia-Lor et al. 2013.** A nuclear phylogenetic analysis: SNPs, indels and SSRs deliver new insights into the relationships in the 'true citrus fruit trees' group (Citrinae, Rutaceae) and the origin of cultivated species. ANNALS OF BOTANY 111, 1-19
- Ruiz-Ruiz et al. 2013.** Citrus tristeza virus p23: determinants for nucleolar localization and their influence on suppression of RNA silencing and pathogenesis. MOLECULAR PLANT-MICROBE INTERACTIONS 26, 306-318
- Garcia-Lor et al. 2013.** Citrus (Rutaceae) SNP markers based on Competitive Allele-Specific PCR; transferability across the Aurantioideae subfamily. APPLICATIONS IN PLANT SCIENCES 1(4), 1200406
- Flores et al. 2013.** Citrus tristeza virus p23: a unique protein mediating key virus-host interactions. FRONTIERS IN MICROBIOLOGY 4, 98
- Cuenca et al. 2013.** Genetically based location from triploid populations and gene ontology of a 3.3-Mb genome region linked to Alternaria brown spot resistance in citrus reveal clusters of resistance genes. PLoS ONE 8, e76755
- 2012** **Aleza et al. 2012.** Implementation of extensive citrus triploid breeding programs based on 4x x 2x sexual hybridisations. TREE GENETICS & GENOMES 8, 1293-1306
- Ollitrault et al. 2012.** A reference genetic map of *C. clementina* hort. ex Tan.; citrus evolution inferences from comparative mapping. BMC GENOMICS 13, Article Number: 593
- Agüero et al. 2012.** Development of viral vectors based on citrus leaf blotch virus to express foreign proteins or analyze gene function in citrus plants. MOLECULAR PLANT-MICROBE INTERACTIONS 25, 1326-1337
- Aleza et al. 2012.** Extensive citrus triploid hybrid production by 2x x 4x sexual hybridizations and parent-effect on the length of the juvenile phase. PLANT CELL REPORTS 31, 1723-1735
- Ollitrault et al. 2012.** SNP mining in *C. clementina* BAC end sequences; transferability in the Citrus genus (Rutaceae), phylogenetic inferences and perspectives for genetic mapping. BMC GENOMICS 13, Article Number: 13
- Soler et al. 2012.** Transformation of Mexican lime with an intron-hairpin construct expressing untranslatable versions of the genes coding for the three silencing suppressors of *Citrus tristeza* virus confers complete resistance to the virus. PLANT BIOTECHNOLOGY JOURNAL 10, 597-608
- Snooussi et al. 2012.** Assessment of the genetic diversity of the Tunisian citrus rootstock germplasm. BMC GENETICS 13, Article Number: 16
- Garcia-Lor et al. 2012.** Comparative use of InDel and SSR markers in deciphering the interspecific structure of cultivated citrus genetic diversity: a perspective for genetic association studies. MOLECULAR GENETICS AND GENOMICS 287, 77-94
- Renovell et al. 2012.** The Citrus leaf blotch virus movement protein acts as silencing suppressor. VIRUS GENES 44: 131-140
- Velázquez et al. 2012.** Association of citrus psoriasis B symptoms with a sequence variant of the Citrus psoriasis virus RNA 2. PLANT PATHOLOGY 61, 448–456
- Ollitrault et al. 2012.** Development of InDel markers from *Citrus clementina* (Rutaceae) BACend sequences and interspecific transferability in Citrus. AMERICAN JOURNAL OF BOTANY 99, e268-e273
- Rizza et al. 2012.** Microarray analysis of Erog citron (*Citrus medica* L.) reveals changes in chloroplast, cell wall, peroxidase and symporter activities in response to viroid infection. MOLECULAR PLANT PATHOLOGY 13, 852-864

Alain Pavé (Correspondant national / Corresponding Member)

- 2014** **Pavé A (dir.). 2014.** Biodiversité et aménagement des territoires – RAPPORT À L'ACADEMIES DES TECHNOLOGIES, EDP Sciences, Les Ulis, France (à paraître, fin 2014)

- Pavé A.** 2014. Les cailloux du Petit Poucet. Carnet de route d'un voyageur des sciences. COLL. BULLES DE SCIENCE. EDP Sciences, Les Ulis, France (à paraître fin 2014)
- Pavé et al.** 2014. Hasards et évolutions. In «Évolution(s) : des galaxies aux sociétés humaines» (Dir. Gargaud M), EDITIONS MATÉRIOLOGIQUES, Paris (sous presse)
- 2013** **Pavé A.** 2013. Jean-Marie Legay : le scientifique, l'humaniste et le novateur. NATURES, SCIENCES, SOCIÉTÉS 21, 99-101
- Pavé A.** 2013. Entre protection et élimination, que deviennent les petites curiosités de la nature ? In : Le développement durable à découvert. CNRS ÉDITIONS, Ed. Agathe Euzen, Laurence Aymard et Françoise Gaill, ISBN : 978-2-271-07896-4, 98-99
- Pavé A.** 2013. Jean-Marie Legay (1925-2012), pionnier de la modélisation ; In : Modéliser & simuler. Epistémologies et pratiques de la modélisation et de la simulation. ÉDITIONS MATÉRIOLOGIQUES, ISBN : 978-2-919694-37-2, tome 1, 713-727
- 2012** **Pavé A.** 2012. Modélisation des systèmes vivants : de la cellule à l'écosystème. Hermès/Lavoisier, Paris-Londres, ISBN: 978-1-84821-423-1, 633 p
- Pavé A.** 2012. Modeling living systems, from cell to ecosystem. ISTE/WILEY, London, Collection 'Environmental engineering series' (London, England), ISBN: 9781848214231 1848214235, 620 p
- Pavé A. (rédacteur).** 2012. 35 ans d'interdisciplinarité au CNRS. RAPPORT INTERNE DU CNRS, <http://www.alain-pave.fr>

Georges Pelletier (Membre titulaire / Member)

- 2014** **Pelletier G, Dattée Y.** 2014. Pourrons-nous vivre sans OGM ? 60 clés pour comprendre les biotechnologies végétales. EDITIONS QUAE (20 février 2014), Collection : Clés pour comprendre, 144 p, ISBN-13: 978-2759220588
- 2013** **Pelletier G.** 2013. Les plantes génétiquement modifiées sont-elles de nouvelles plantes? C R ACAD AGRIC FR 99 (4), 92-97
- Pelletier G.** 2013. Comment la génétique pourra contribuer à l'adaptation des plantes au déficit hydrique. DOSSIER DU GROUPE DE TRAVAIL 'POTENTIELS DE LA SCIENCE POUR L'AVENIR DE L'AGRICULTURE, DE L'ALIMENTATION ET DE L'ENVIRONNEMENT', <http://www.academie-agriculture.fr/groupes-de-reflexion/potentiels-de-la-science-pour-lavenir-de-lagriculture-de-lalimentation-et-de>

Georges Periquet (Correspondant national / Corresponding Member)

- 2013** **Bezier et al.** 2013. Functional endogenous viral elements in the genome of the parasitoid wasp *Cotesia congregata*: insights into the evolutionary dynamics of bracoviruses. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 368, Article Number: 20130047
- Herniou et al.** 2013. When parasitic wasps hijacked viruses: genomic and functional evolution of polydnaviruses. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 368, Article Number: 20130051
- Louis et al.** 2013. The bracovirus genome of the parasitoid wasp *Cotesia congregata* is amplified within 13 replication units, including sequences not packaged in the particles. JOURNAL OF VIROLOGY 87, 9649-9660
- Jancek et al.** 2013. Adaptive selection on bracovirus genomes drives the specialization of *Cotesia* parasitoid wasps. PLoS ONE 8, e64432
- 2012** **Lorite et al.** 2012. The ant genomes have been invaded by several types of mariner transposable elements. NATURWISSENSCHAFTEN 99, 1007-1020
- Ladeveze et al.** 2012. General survey of hAT transposon superfamily with highlight on hobo element in *Drosophila*. GENETICA 140, 375-392

Jean-Claude Pernollet (Membre titulaire / Member)

- 2014** **Pernollet JC.** 2014. Rapport synthétique de l'Académie d'Agriculture de France sur les plantes génétiquement modifiées. REVUE DE L'ACADEMIE D'AGRICULTURE 2, 55-61, <http://www.academie-agriculture.fr/publications/revue-aaf>
- Pernollet JC.** 2014. Introduction de la séance "Notre alimentation est-elle faite de produits naturels ?" <http://www.academie-agriculture.fr/seances/notre-alimentation-est-elle-faite-de-produits-naturels?120214>
- 2013** **Pernollet JC.** 2013. Introduction de la séance "Biologie de synthèse: innovations et perspectives" C R ACAD AGRIC FR (99), <http://www.academie-agriculture.fr/seances/biologie-de-synthese-innovations-et-perspectives>

- Pernollet JC. (Coord.) 2013.** Coordination et rédaction finale du rapport : Dix questions-clés sur les PGM. CONCLUSIONS DU GROUPE DE REFLEXION ET DE PROPOSITION DE L'ACADEMIE D'AGRICULTURE DE FRANCE SUR LES PLANTES GENÉTIQUEMENT MODIFIÉES, 47 p, <http://www.academie-agriculture.fr/groupes-de-reflexion/plantes-genetiquement-modifiees>
- Colomer JF & Pernollet JC. 2013.** L'impossible débat sur les OGM. REVUE DE L'ACADEMIE D'AGRICULTURE 1, 19-21
- Pernollet JC. 2013.** Quelles avancées scientifiques pour quels progrès ? DOSSIER DU GROUPE DE TRAVAIL 'POTENTIELS DE LA SCIENCE POUR L'AVENIR DE L'AGRICULTURE, DE L'ALIMENTATION ET DE L'ENVIRONNEMENT', <http://www.academie-agriculture.fr/groupes-de-reflexion/potentielles-de-la-science-pour-lavenir-de-lagriculture-de-lalimentation-et-de>
- Morot-Gaudry JF, Pernollet JC. 2013.** Chimie verte. Les bioproduits non alimentaires. DOSSIÉR DU GROUPE DE TRAVAIL 'POTENTIELS DE LA SCIENCE POUR L'AVENIR DE L'AGRICULTURE, DE L'ALIMENTATION ET DE L'ENVIRONNEMENT', <http://www.academie-agriculture.fr/groupes-de-reflexion/potentielles-de-la-science-pour-lavenir-de-lagriculture-de-lalimentation-et-de>
- Pernollet JC. 2013.** Les plantes génétiquement modifiées au service du Bien Public : aspects sociétaux. C R ACAD AGRIC FR 99 (4), 98-105

Pere Puigdomenech (Membre associé / Foreign Member)

- 2014** Puigdomenech P. 2014. Dealing with scientific integrity issues: the Spanish experience. ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS 62, 1-6
- 2013** Gonzalez et al. 2013. High presence/absence gene variability in defense-related gene clusters of *Cucumis melo*. BMC GENOMICS 14, Article Number: 782
- 2012** Jose-Estanyol M, Puigdomenech P. 2012. Cellular localization of the embryo-specific Hybrid PRP from *Zea mays*, and characterization of promoter regulatory elements of its gene. PLANT MOLECULAR BIOLOGY 80, 325-335
- Garcia-Mas et al. 2012.** The genome of melon (*Cucumis melo* L.). PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 109, 11872-11877
- Fornale et al. 2012.** Altered lignin biosynthesis improves cellulosic bioethanol production in transgenic maize plants down-regulated for cinnamyl alcohol dehydrogenase. MOLECULAR PLANT 5, 817-830

Dominique Planchenault (Correspondant national / Corresponding Member)

- 2014** Alexandre et al. 2014. Le déploiement des nanotechnologies et de la biologie de synthèse dans l'industrie française. RAPPORT DE MISSION INTERMINISTÉRIELLE D'EXPERTISE n°12120 CGAAER, CGEDD, CGARM, CGEIET, IGAENR, <http://agriculture.gouv.fr/Le-deploiement-des>
- Mialot JP, Planchenault D. 2014.** Évaluation du service universel de la distribution et de la mise en place de la semence de ruminants. RAPPORT DU CGAAER n° 13081, 99 p
- 2013** Charpentier et al. 2013. Conservation des ressources phytogénétiques. RAPPORT DU CGAAER n°12154, 50 p, <http://agriculture.gouv.fr/Evaluation-du-service-universel-de>
- Planchenault D. 2013.** Notre patrimoine génétique végétal est-il menacé par les biotechnologies ? ANNALES DES MINES - Réalités industrielles (février 2013), Editeur : ESKA, ISBN : 9782747220361, 116 p
- 2012** Planchenault D. 2012. État des lieux et valorisation de la filière génétique porcine. RAPPORT DU CGAAER n° 12014, 60 p, <http://agriculture.gouv.fr/Etat-des-lieux-et-valorisation-de>
- Planchenault D. 2012.** Les biotechnologies et les nouvelles variétés végétales. RAPPORT DU CGAAER n° 10157, 60 p, <http://agriculture.gouv.fr/Les-biotechnologies-et-les>

Agnès Ricroch (Correspondant national / Corresponding Member)

- 2014** Ricroch et al. (Ed). 2014. Plant Biotechnology - Experience and Future Prospects. Publisher: SPRINGER, 284 pp, <http://www.springer.com/life+sciences/agriculture/book/978-3-319-06891-6>
- Kuntz M, J. Davison J, Ricroch A. 2014.** France fails science test. February, Cosmos magazine (Australia), <http://alpha.cosmosmagazine.com/society/france-fails-science-test>
- Henard MC, Ricroch A. 2014.** Les prochaines plantes issues des biotechnologies aux stades de la recherche, du développement et en cours d'évaluation par les autorités chargées de la réglementation. DOSSIER PGM : GROUPE DE REFLEXION ET DE PROPOSITION DE L'ACADEMIE D'AGRICULTURE DE FRANCE SUR LES PLANTES GENÉTIQUEMENT MODIFIÉES, <http://www.academie-agriculture.fr/groupes-de-reflexion/plantes-genetiquement-modifiees>

- 2013** Kuntz *et al.* 2013. What the French ban of Bt MON810 maize means for science-based risk assessment. *NATURE BIOTECHNOLOGY* 31, 498-500
- Ricroch AE.** 2013. Assessment of GE food safety using '-omics' techniques and long-term animal feeding studies. *NEW BIOTECHNOLOGY* 30, 349-354
- Le Feon *et al.*** 2013. Solitary bee abundance and species richness in dynamic agricultural landscapes. *AGRICULTURE ECOSYSTEMS & ENVIRONMENT* 166, 94-101
- Kuntz M, Ricroch A, Davison J.** 2013. EFSA rejects Italian request for a ban on MON 810 maize. *EurActiv*, <http://guests.blogactiv.eu/2013/12/05/efsa-rejects-italian-request-for-a-ban-on-mon-810-maize/>; <http://www.geneticliteracyproject.org/2013/10/09/oregon-legislature-right-to-pre-empt-control-of-gmos/#.UlxF29jNt01>
- 2012** Snell *et al.* 2012. Assessment of the health impact of GM plant diets in long-term and multigenerational animal feeding trials: A literature review. *FOOD AND CHEMICAL TOXICOLOGY* 50, 1134-1148
- Kuntz M, Ricroch A.** 2012. Has time come to lower the current regulatory risk assessment for GM food and feed? *ISB NEWS REPORT*, February 2012, 1-4, <http://www.isb.vt.edu/news/2012/Feb12.pdf>
- Kuntz M, Ricroch A.** 2012. Plantes biotechnologiques : réalités, promesses et obstacles. *FUTURIBLES* 383, 73-88, <https://www.futuribles.com/fr/base/revue/383/plantes-biotechnologiques-realites-espoirs-et-obst/>
- Guizard *et al.*** 2012. Le COV. INRA MAGAZINE 21, 34-35, <http://inra.dam.front.pad.brainsonic.com/ressources/afile/233761-124ce-resource-inra-magazine-no21.html>
- Kuntz *et al.*** 2012. GMO ban: Risks for science-based assessments. *EurActiv*. <http://www.euractiv.com/health/political-bans-gmos-eu-risks-sci-analysis-513694>
- Ricroch A.** 2012. Synthetic biology. In: (Ed. Fournier V) *Past Forward*, CHRISTOPH RUYS 360° PUBLISHING AGENCY, ISBN-10: 9081935704, 272 p http://www.amazon.fr/gp/product/9081935704/ref=olp_product_details?ie=UTF8&me=

François Taddei (Correspondant national / Corresponding Member)

- 2013** Frenoy *et al.* 2013. Genetic architecture promotes the evolution and maintenance of cooperation. *PLoS COMPUTATIONAL BIOLOGY* 9, e1003339
- Cenens *et al.* 2013. Expression of a novel *P22* ORFan gene reveals the phage carrier state in *Salmonella typhimurium*. *PLoS GENETICS* 9, e1003269
- 2012** Ni *et al.* 2012. Pre-disposition and epigenetics govern variation in bacterial survival upon stress. *PLoS GENETICS* 8, e1003148

Marc Van Montagu (Membre associé / Foreign Member)

- 2014** Zhiponova *et al.* 2014. Helix-loop-helix/basic helix-loop-helix transcription factor network represses cell elongation in *Arabidopsis* through an apparent incoherent feed-forward loop. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 111, 2824-2829
- Novakova *et al.*** 2014. SAC phosphoinositide phosphatases at the tonoplast mediate vacuolar function in *Arabidopsis*. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 111, 2818-2823
- Moses *et al.*** 2014. Combinatorial biosynthesis of saponins and saponins in *Saccharomyces cerevisiae* using a C-16 alpha hydroxylase from *Bupleurum falcatum*. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 111, 1634-1639
- Van Acker *et al.*** 2014. Improved saccharification and ethanol yield from field-grown transgenic poplar deficient in cinnamoyl-CoA reductase. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 111, 845-850
- 2013** Loefke *et al.* 2013. Asymmetric gibberellin signaling regulates vacuolar trafficking of PIN auxin transporters during root gravitropism. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 110, 3627-3632
- De Smet *et al.*** 2013. Convergent gene loss following gene and genome duplications creates single-copy families in flowering plants. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 110, 2898-2903
- Angenon *et al.*** 2013. From the tumor-inducing principle to plant biotechnology and its importance for society. *INTERNATIONAL JOURNAL OF DEVELOPMENTAL BIOLOGY* 57, 453-460

- 2012** **Vanderauwera et al.** 2012. AtWRKY15 perturbation abolishes the mitochondrial stress response that steers osmotic stress tolerance in *Arabidopsis*. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 109, 20113-20118
- Eloy et al.** 2012. SAMBA, a plant-specific anaphase-promoting complex/cyclosome regulator is involved in early development and A-type cyclin stabilization. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 109, 13853-13858
- Ngudi et al.** 2012. Research on motor neuron diseases konzo and neurolathyrism: trends from 1990 to 2010. PLoS NEGLECTED TROPICAL DISEASES 6, e1759
- Grunewald et al.** 2012. Transcription factor WRKY23 assists auxin distribution patterns during *Arabidopsis* root development through local control on flavonol biosynthesis. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 109, 1554-1559

Peter Westhoff (Correspondant associé / Foreign Corresponding Member)

- 2014** **Aldous et al.** 2014. Evolution of the phosphoenolpyruvate carboxylase protein kinase family in C3 and C4 *Flaveria* species. PLANT PHYSIOLOGY doi: 10.1104/pp.114.240283
- Mallmann et al.** 2014. The role of photorespiration during the evolution of C4 photosynthesis in the genus *Flaveria*. ELIFE doi: 10.7554/eLife.02478
- Gresset et al.** 2014. Stable carbon isotope discrimination is under genetic control in the C-4 species: maize with several genomic regions influencing trait expression. PLANT PHYSIOLOGY 164, 131-143
- 2013** **Schulze et al.** 2013. Evolution of C-4 photosynthesis in the genus *Flaveria*: establishment of a photorespiratory CO₂ pump. PLANT CELL 25, 2522-2535
- Fernie et al.** 2013. Perspectives on plant photorespiratory metabolism. PLANT BIOLOGY 15, 748-753
- Heckmann et al.** 2013. Predicting C-4 photosynthesis evolution: modular, individually adaptive steps on a mount Fuji fitness landscape. CELL 153, 1579-1588
- Lyska et al.** 2013. How to build functional thylakoid membranes: from plastid transcription to protein complex assembly. PLANTA 237, 413-428
- Wang et al.** 2013. Evolution of *GOLDEN2-LIKE* gene function in C-3 and C-4 plants. PLANTA 237, 481-495
- Lyska et al.** 2013. pAUL: A gateway-based vector system for adaptive expression and flexible tagging of proteins in *Arabidopsis*. PLoS ONE 8, e53787
- 2012** **Link et al.** 2012. The atypical short-chain dehydrogenases HCF173 and hcf244 are jointly involved in translational initiation of the *PSBA* mRNA of *Arabidopsis*. PLANT PHYSIOLOGY 160, 2202-2218
- Meyer et al.** 2012. Technology adoption under US biofuel policies: do producers, consumers or taxpayers benefit? EUROPEAN REVIEW OF AGRICULTURAL ECONOMICS 39, 115-136
- Wiludda et al.** 2012. Regulation of the photorespiratory *GLDPA* gene in C-4 *Flaveria*: an intricate interplay of transcriptional and posttranscriptional processes. PLANT CELL 24, 137-151

Quelques activités éditoriales auprès de revues scientifiques de membres de la section 6 / Some editorial activities from scientific journals of Section 6' Members

Michael Black

Editorial Board Member, *SEED SCIENCE RESEARCH*,
<http://journals.cambridge.org/action/displayJournal?jid=SSR>

Yves Combarnous

Editorial Board Member, *IRSN ENDOCRINOLOGY*,
<http://www.hindawi.com/journals/isrn.endocrinology/>

Françoise Corbineau

Editorial Board Member, *SEED SCIENCE RESEARCH*,
<http://journals.cambridge.org/action/displayJournal?jid=SSR>

Gérard Cortier

Editorial Board Member, *CAHIERS DE NUTRITION ET DE DIETETIQUE*,
<http://www.journals.elsevier.com/cahiers-de-nutrition-et-de-dietetique/editorial-board/>

Stanislas Dusko Ehrlich

Editorial Board Member, *MICROBIOME*, <http://www.microbiomejournal.com>

Christian Ferault

Co-Rédacteur en chef [avec Jean-Claude Mounolou] des *COMPTE RENDUS DE L'ACADEMIE D'AGRICULTURE DE FRANCE* (2006 à 2013)
Créateur et Co-Rédacteur en chef [avec Jean-François Colomer] de "LA LETTRE DE L'ACADEMIE" (2008 à 2013), n° 0 à 21
Membre du Comité de rédaction de "LA LETTRE DE L'ACADEMIE" depuis le n°22 (février 2014),
Relecteur final de la "REVUE DE L'ACADEMIE"
Rédacteur en chef du Bulletin "MEMOIRE ET MODERNITE" de l'Association pour l'étude de l'histoire de l'agriculture (AEHA) jusqu'en 2013

Jeanne Garric

Editorial Board Member, *JOURNAL OF XENOBIOTICS*,
<http://www.pagepressjournals.org/index.php/xeno/pages/view/board>

Dominique Job

Editorial Board Member, *SEED SCIENCE RESEARCH*,
<http://journals.cambridge.org/action/displayJournal?jid=SSR>
Editorial Board Member, *MOLECULAR & CELLULAR PROTEOMICS*, <http://www.mcponline.org>
Associate Editor, *FRONTIERS IN PLANT SCIENCE/FRONTIERS IN PLANT PROTEOMICS*,
http://www.frontiersin.org/plant_proteomics

Christian Lévêque

Editorial Board Member, *BRAZILIAN JOURNAL OF BIOLOGY*,
<http://www.journals.elsevier.com/comptes-rendus-biologies/>

Francis Martin

Section Editor, *NEW PHYTOLOGIST*,
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1469-8137](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1469-8137)
Academic Board Editor, *PEERJ*, <https://peerj.com>

Alain Pavé

Editorial Board Member, *JOURNAL OF PALEOGENOMICS*,
<https://sites.google.com/site/journalofpaleogenomics/>

Marc Van Montagu

Editorial Board Member, *COMPTE RENDUS BIOLOGIES*,
<http://www.journals.elsevier.com/comptes-rendus-biologies/>
Editorial Board Member, *ELECTRONIC JOURNAL OF BIOTECHNOLOGY*,
<http://www.journals.elsevier.com/electronic-journal-of-biotechnology/>

Peter Westhoff

Editorial Board Member, *PHYSIOLOGIA PLANTARUM*,
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1399-3054](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1399-3054)
Review Editor, *MOLECULAR GENETICS AND GENOMICS*,
<http://www.springer.com/life+sciences/cell+biology/journal/438>