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DZIAŁALNOŚĆ NAUKOWO-BADAWCZA

Main research activities.

I am working on mycorrhizae, a symbiosis linking plants roots and soil fungi. I focus on plant species exploiting the carbon of neighbouring plants by way of common mycorrhizal fungi; on fungal communities in Mediterranean ecosystems and their responses to anthropic disturbances; and on population genetics of mycorrhizal fungi (gene flow, cryptic speciation and specificity). Last, I have interest in general aspects of symbiosis, especially its evolutionary role.

Most important projects:

- ***Ectomycorrhizal communities in the Fango Man & Biosphere Reserve (Corsica, France)***. Office National de Forêts (French national Forest administration); 2002-2004;
- ***Mycorrhizae of French orchids***; annual recurrent grant for Scientific Council of the Société Française d'Orchidophilie 2001-2006; (Muséum in Paris and CEFE-CNRS in Montpellier from 2004 on).
- ***The functional ecology of mycorrhizal networks: using "cheaters" to explore inter-plant carbon transfers***, highly competitive grant for young scientists (ATIP) organized by the Centre National de la Recherche Scientifique (CNRS) on 'Dynamic of Biodiversity' 2005-2008; CEFE-CNRS in Montpellier.
- **Travel Grant and Research Support to M.-A. Selosse (November 2011)**; Grant from the Japanese Society for Promotion of Science; project.
- ***Ecology of Thailand orchids***; Internal CNRS grant; (CEFE-CNRS in Montpellier).
- ***Evolution of Trees as Drivers of Terrestrial Biodiversity (Evoltree)***; Funding by the 6th Framework Program of the European Union; 2007-2010; CEFE-CNRS in Montpellier.
- ***Evolution of mycorrhizal associates of Quercus ilex facing global changes***; Funding from Regional Office of the French Agricultural Ministry (DRAF); 2008-2009; CEFE-CNRS in Montpellier.
- **Ecological bases for a sustainable management of truffle Tuber melanosporum ecosystems (SYSTRUF; ANR-09-STRA-10)**; Grant from the Agence Nationale de la Recherche (ANR, the French national research grant agency); 2010-2013;
& ***Ecological bases for a sustainable management of truffle Tuber melanosporum ecosystems – A Languedoc declination (SYSTRUF-LR, financement n° 121380)***; Funding from the Region Languedoc-Roussillon to back-up the SYSTRUF program regionally; 2010-2013.
- ***Diversity of fungi mycorrhizal with plants (DivMyc)***; Grant from the network Bibliothèque Du Vivant (BDV, funded by CNRS, Muséum National d'Histoire Naturelle de Paris, INRA and the Centre National de Séquençage); 2011-2013.
- ***In- and ex-situ conservation of a Neottia nidus-avis orchid population***; Funding Lafarge – Ciments Company in the framework of a mining program; 2013-2016.
- ***Tracking carbon exchanges in mycorrhizal networks (MycNet)***; Grant from CNRS for collaboration with Czech Republic; 2013-2016; Muséum in Paris.
- ***Evolution and physiology of plants eating fungi***; Grant from Fondation de France and Fondation Ars Cuttoli – Paul Appell; 2015-2017.
- ***Orchid mycorrhizas: from basic biology to strategy for conservation***; Grant from the Ministry of Science, Technology and Innovation of Brazil (MCTI) & National Council for Scientific and Technological of the Brazilian Government (CNPq); 2015-2018.
- ***Mise en place d'un site atelier pour la restauration des populations de Liparis de Loesel dans le Val d'Ainan [restauration of Liparis loeselii populations]***. Grant from the CG38 (General Council of the Isère department); 2015-2016.
- **ORCHIDOMICS - Zrozumienie metabolizmu storczyków w ich naturalnym środowisku - metody**

omiczne w badaniach adaptacji i symbiozy u storczyków" Projekt finansowany przez Narodowe Centrum Nauki w konkursie MAESTRO 7; 2016-2020.

Most important awards for research

1. Médaille de Vermeil for my PhD by Académie d'Agriculture (French Agricultural Academy), 1998
2. Election for as an associate member of The Académie d'Agriculture (French Agricultural Academy), starting 01.2016
3. Invited Fellow of the Japanese Society for Promotion of Science, 2011

Most important invitations to present at scientific conferences (out of 38).

ISS Symbiosis conference (Krakow, 2014, session organizer); 3 weeks invitation (incl. Japanese Congress on Mycorrhizae) by the Japanese Society for Advancement of Science (2012); 27th Fungal Genetics Conference (Asilomar, 2013); IInd International Symposium on Microbiology and Biotechnology (Bello-Horizonte, Brazil, 2013); 'Plant Biology Europe' (FESPB/EPSO, Dublin, 2014).

1. Société Botanique de France - President (elected 2010, 2012, 2014);
2. International Society for Symbiosis - Vice-president (elected 2004, 2015);
3. Planning and Development Committee of the International Mycorrhiza Society - member (2008 - 2015);
4. Académie d'Agriculture (French Agricultural Academy), Elected associate member, starting 01.2016;
5. Scientific Council of the SFO - French Orchid Society - member since 2003;
6. Scientific Council of Telabotanica - French Internet Network of Botanist (more than 14000 members) - member since 2009
7. Scientific Council of the international laboratory LAPSE (Laboratoire Mixte International Adaptation des Plantes et microorganismes associés aux Stress Environnementaux), Univ. Cheikh Anta Diop, Institut Sénégalais de Recherches Agricoles, AfricaRice, Univ. de Thiès and Institut de recherche pour le développement (IRD) at Dakar, Sénégal - member since 2013;
8. Evaluating and recruitment committee (Commission Scientifique Sectorielle 3) of Institut de recherche pour ledéveloppement (IRD, > 2221 people and 63 labs) - member (2008-2012);
9. Scientific Council of the 'Commission Littérature Scientifique et Technique du Centre National du Livre', an office providing subsidiaries to publish and translated books from the Ministry of Culture of France - member since 2008;
10. National Commission for Curricula (Biology / Geology) of the Ministry of Education of France - member (2011-2014);
11. Editor of New Phytologist (IF: 6.5), making full decisions on papers;
12. Editor of Symbiosis (IF: 1.2), making full decisions on papers;
13. Editor of Acta Botanica Gallica - Botany letters (IF: 0.49), making full decisions on papers.

I supervised 22 MSc students and 5 PhDs

DZIAŁALNOŚĆ DYDAKTYCZNA I POPULARYZACJA NAUKI :

I teach 120 hrs yrs-1 at Muséum and in other French or European Universities and 'GrandesEcoles'. My teaching encompasses field and lecture courses in ecology, soil sciences, microbiology, evolution of symbiosis, and phylogeny, at all university levels. A strong action in outreach (99 papers, talks, high schools, radio interviews, films...).

DOROBEK NAUKOWY/ WYKAZ PUBLIKACJI

Publications - 123 papers since 1996 (5284, H=38 in Google; 3195 citations, H=31 in ISI) available online at <http://isyeb.mnhn.fr/Marc-Andre-SELOSSE>