

Job title	Post-doc position – STRUCTURE, FUNCTION AND ROLES OF NITRIC OXIDE SYNTHASES IN ALGAL RESPONSES TO ENVIRONMENTAL STRESSES
Ref	2018-05-NOISELESS
Job type (PhD, Post-doc, Engineer)	Post-doc
Contract duration (months)	24 months
Qualifications (Master degree, PhD...)	PhD
Job hours (full time/ part time)	Full time
Employer	UBFC – Université de Franche-Comté
Host Laboratory	Agroecology Joint Research Unit - UMR 1347 - AgroSup Dijon INRA/Université de Bourgogne ; Plant-Microorganism Interactions Department - ERL CNRS 6003 ; team Immunity and Signalling
URL Host Laboratory	https://www6.dijon.inra.fr/umragroecologie_eng/Research-Cluster/Plant-Microorganism-Interactions/Research-Teams/Nitric-Oxide-and-plant-defense See also : https://www.researchgate.net/profile/David_Wendehenne
Address Host Laboratory	INRA, 17 rue Sully, BP 86510 , 21065 Dijon cédex France
Job description	A two years post-doc position is available to investigate the structure, function and role of nitric oxide synthase (NOS) in algae. NOS are the main enzymatic sources for nitric oxide (NO) in mammals. We recently demonstrated that although these enzymes are absent in land plants, they are conserved in few algal species. First sequences and <i>in silico</i> analyses revealed that algal NOSs display specific features (Jeandroz <i>et al.</i> , Science Signaling 2016, 9(417):re2; Santolini <i>et al.</i> , Nitric Oxide 2017, 63:30-38). By combining biochemical, biophysical, cellular and physiological approaches, our current efforts are directed at deciphering the structural features, enzymatic properties, regulation and physiological roles of the NOS from the algae <i>Klebsormidium flaccidum</i> and <i>Cosmarium subtumidum</i> . The role of these proteins and of their enzymatic products (mainly NO) in algae growth, innate immunity and responses to abiotic

	stresses will be particularly analyzed through the identification of their protein partners and of proteins undergoing S-nitrosylation, a NO-dependent post-translational protein modification.
Supervisor(s)	WENDEHENNE David, david.wendehenne@u-bourgogne.fr (or david.wendehenne@inra.fr)
Candidate profile	We seek a highly motivated individual with experience in protein biochemistry, NO production and signalling. Individuals with experience in plant immunity and S-nitrosylation, are especially desired. Minimum Requirements: - Graduation from an accredited university with a PhD in Biochemistry, Cellular and Molecular Biology - Experience in working with plants - Ability to handle and process detail-oriented documentation and meet designated research deadlines - Excellent in writing, reading and communicating in English - The ability to work independently and efficiently within the research lab - Must be team-oriented, flexible, and able to communicate with others - Minimum of 2 year(s) post-doc experience would be preferable
Keywords	Algae, Nitric Oxide Synthase, Nitric Oxide Signalling, Plants, Protein Biochemistry, S-nitrosylation
Application deadline	June 15, 2018
Application	Please send the following documents (all in one PDF file) by e-mail to job-application@ubfc.fr : 1) For EU candidates: Copy of your national ID card or of your passport page where your photo is printed. For non-EU candidates: Copy of your passport page where your photo is printed. 2) Curriculum Vitae (may include hyperlinks to your ResearchID, Research Gate Google Scholar accounts). 3) Detailed list of publications (may include hyperlinks to DOI of publications). 4) Letter of motivation relatively to the position (Cover Letter) in which applicants describe themselves and their contributions to previous research projects (maximum 2 pages) 5) Copy of your PhD degree if already available. 6) Coordinates of reference persons (maximum 3, at least your master thesis supervisor): Title, Name, organization, e-mail. If you have questions regarding the application, please contact the supervisors.