Sylvain GAILLARD

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Date of birth: 10 jan 1978

EDUCATION

2004	Master Degree in Bioinformatics (Paul Sabatier University – Toulouse, France)
2001	1st year of Master in Cellular Biology and Plant Physiology (University of Montpellier II, France)

WORK EXPERIENCE

Current since 1st oct 2006

Engineer in bioinformatics (IRHS, Angers)
- System administration, Database administration
- Development of the information system for genetical ressources and breeding
- Software development for polymorphisme detection
- Software development for RNA-Seq analysis
- RNA-Seq analysis
- Genomic data manipulation on apple

Passed

3 months (2006) — **Ingineer in bioinformatics (UMR BGPI, INRA Montpellier)**
- Software development for biological data analyis (MySQL, Perl CGI, R)
- Data analysis

4 months (2006) — **Ingineer in bioinformatics (InfoBioTech Montpellier)**
- Database development for plant comparative genomics (MySQL, Perl CGI)

11 months (2005) — **Ingineer in bioinformatics (UMR PIA, CIRAD Montpellier)**
- Sofware development for microarrays data management and analysis (Perl CGI, R BioConductor)
- Software development for PCR probe validation (Perl CGI, blast)
- Plugin development for GBrowse (GMOD)

COMPUTING SKILLS

- GNU/linux system administration
- Programming langages: C++, C, Java, Perl, Python, PHP, S, BASH, SQL, XML, XHTML, CSS, JavaScript
- Web technologies: LAMP, AJAX
- Server administration: Apache, ProFTP
- Database administration: PosgreSQL, MySQL

PUBLICATIONS (H-FACTOR: 6)

- M. Conte, S. Gaillard, G. Droc, C. Perin, 2008. Phylogenomics of plant genomes: a methodology for genome-wide searches for orthologs in plants. *BMC Genomics* 9:183-183.
- M. G. Conte, S. Gaillard, N. Lanau, M. Rouard, C. Périn,2008. GreenPhylDB: a database for plant comparative genomics. *Nucleic Acids Research* 36:D991-D998.
- E. Vergne, E. Ballini, S. Marques, B. Sidi Mammar, G. Droc, S. Gaillard, S. Bourot, R. Derose, D. Tharreau, J. Nottéghem, M. Lebrun, J. Morel, 2007. Early and specific gene expression triggered by rice resistance gene Pi33 in response to infection by ACE1 avirulent blast fungus. *New Phytologist* 174:159-171.
- J. Dutheil, S. Gaillard, E. Bazin, S. Glemin, V. Ranwez, N. Galtier and K. Belkhir, 2006 Apr. Bio++: a set of C++ libraries for sequence analysis, phylogenetics, molecular evolution and population genetics. *BMC Bioinformatics* 7(1):188.
- D. Mouillot, S. Gaillard, C. Aliaume, M. Verlaque, T. Belsher, M. Troussellier and T. Do Chi, 2005 Jan. Ability of taxonomic diversity indices to discriminate coastal lagoon environments based on macrophyte communities. *Ecological Indicators* 5(1): 1 - 17.
- R. Berruyer, H. Adreit, J. Milazzo, S. Gaillard, A. Berger, W. Dioh, M.-H. Lebrun, D. Tharreau,

2003 Oct. Identification and fine mapping of *Pi33*, the rice resistance gene corresponding to the *Magnaporthe grisea* avirulence gene *ACE1*. *Theor Appl Genet* 107(6): 1139 - 1147.

POSTERS

- S. Gaillard, F. Foucher, A. Pernet. Polymorfind: a tool for SNP and indel detection on PCR products sequencing from heterozygous species. *JOBIM*, 2010 Sep.
- L. Guéguen, J. Dutheil, S. Gaillard, B. Boussau, G. Dugas, K. Belkhir. The Bio++ Libraries v2.0: Object-oriented libraries for sequence analysis, populamtion genetics, phylogenetics and molecular evolution. *SMBE*, 2010 Jul. & *JOBIM*, 2010 Sep.
- J. Dutheil, S. Gaillard, E. Bazin, S. Glemin, V. Ranwez, N. Galtier and K. Belkhir. Bio++: a set of C++ libraries for sequence analysis, phylogenetics, molecular evolution and population genetics. *JOBIM*, 2006 Jul.
- G. Droc, P. Larmande, S. Gaillard, M. Ruiz, A. Peirera, P. Piffanelli, J.B. Morel, A. Dievart, B. Courtois, E. Guiderdoni and C. Perin. OryGenesDB a database for rice reverse genetics. *IRFGM*, 2006 Oct.
- M. Conte, S. Gaillard, C. Perin. GREENPHYL: An optimised phylogenomics pipeline for ortholog prediction between two model plant species *Arabidopsis thaliana* and *Oryza sativa*. *IRFGM*, 2006 Oct.