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Maude M. David
Postdoctoral researcher
Molecular Microbial Ecology
Group

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EDUCATION

- 2009 Ph.D. - Ecole Centrale de Lyon, University of Lyon, France.
Advisor: T.M.Vogel
Thesis: Bacterial Adaptation to Chlorinated Compounds.
- 2006 Master of Microbial Ecology (with Honors) - University of Lyon.
Focus: Environmental Biotechnology.
- 2001 Bachelor of Biochemistry - University of Lyon.

PROFESSIONAL EXPERIENCE

- Jan 2010-present **Postdoctoral Researcher** - National Center of Scientific Research in Lyon.
Guest researcher - Lawrence Berkeley National Laboratory, Berkeley, CA, USA.
Research: Adaptation Capabilities of Arthrobacter Chlorophenicus.
Study of the adaptation of this microorganism to a new compound (2,5 dichlorohydroquinone) by studying the evolution of the genome and the protein expression.
- Aug 2008-Aug 2009 **Consultant** - ENOVEO (startup, 268 hours), Lyon, France.
Biotechnology, bioremediation, and groundwater management.
- Aug-Dec 2008 **Graduate-Level Intern** - Lawrence Berkeley National Laboratory.
Research: Study of bacterial community kinetics in relation to the chemical degradation kinetics of perchloroethylene.
- 2007-2008 **Graduate Teaching Assistant** - Undergrad student chemistry program (55 hours) - University of Lyon.
- Feb-June 2006 **Masters Student Internship** - Microbial Ecology Laboratory University of Lyon.
Research: Where do dehalogenases come from?
Study of the origins of dehalogenase enzymes that allow the degradation of chlorinated compounds.
- June-July 2004 **Student Intern** - Fongic Cellular Laboratory University of Lyon.
Research: pH Signaling of Botrytis Cinerea.

GRANTS RECEIVED

- Sept 2006-Aug 2009 State (Rhones-Alpes) PhD studentship grant - salary full time 3 years.
- Jan-July 2006 Governmental masters student grant scholarship - attribution based on the first year master program ranking.

PUBLICATIONS

Audra Nemir, Maude M. David, Ronan Perrussel, Amy Sapkota, Pascal Simonet, Jean-Michel Monier, Timothy M. Vogel. **Comparative phylogenetic microarray analysis of microbial communities in TCE-contaminated soils.** Chemosphere. 80 (2010) 600-607

Sandrine Demaneche, Laurent Philippot, Maude M. David, Elisabeth Navarro, Timothy M. Vogel, and Pascal Simonet. **Characterization of Denitrification Gene Clusters of Soil Bacteria via a Metagenomic Approach.** Applied and Environmental Microbiology, 75 (2009) 534–537

Maude M. David , Amy R. Sapkota, Pascal Simonet and, Timothy M. Vogel. **A novel and rapid method for synthesizing positive controls and standards for quantitative PCR.** Journal of Microbiological Methods. 73 (2008) 73–7

Maude David, Françoise Bringel, Marco Pagni, Niamh Gilmartin, Hasna Boubakri, Thierry Nadalig, Pascal Simonet, Timothy Vogel, Stéphane Vuillemier. **Diversité et évolution des déshalogénases bactériennes : détection bioinformatique et perspectives de recherches (Diversity and evolution of bacterial dehalogenases: bioinformatic detection and research prospects).** Les Actes du BRG, 7 (2008) 83- 9

Maude M. David, Margaux Mesle, Cédric Malandain, Dorothee Cohen, Benoit Vigier, Philippe Barbier, Ronald Lantzy and Timothy M.Vogel. Paper B-099. Remediation of Chlorinated and Recalcitrant Compounds—2008. **Molecular biology-based strategy for site remediation.** Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2008). ISBN 1-57477-163-9, published by Battelle, Columbus, OH.

Maude M. David, Pascal Simonet and Timothy M. Vogel. **DNA Shuffling: a dynamic model for novel gene synthesis.** International Journal of Astrobiology. 6 (2007) 59-87

CO-SUPERVISION OF MASTERS AND INTERNSHIP STUDENTS

Margaux Mesle	Masters student - University of Lyon, France <i>In vivo</i> DNA shuffling for the generation of a new functional gene for gamma-hexachlorocyclohexane degradation.
Alexandra Rybalka	Masters student - University of Lyon, France Optimization of the quantification of <i>recA</i> gene in lindane-degrading microorganisms in the soil of Monriont, France.
Aurelie Mibord	Undergraduate student - University of Lyon, IUT of Bourg en Bresse, France Monitoring of microbial degradation of chlorinated solvent in soil and groundwater.