

Dr.

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### **Untangling microbial communities through their DNA – from oceans to the human body**

Metagenomics allows a large-scale, unbiased insight in the functional and phylogenetic composition of complex microbial communities. However, given the complexity of these data, computational analysis is a major bottleneck. Here, I will discuss our experiences in developing methods for the analysis of metagenomics data and their application in eg. hypersaline microbial mats, ocean samples and the human microbiome. These approaches should lead the way towards an 'eco-systems biology' approach to the study of microbial communities.

#### **Short CV**

Scientific Collaborator of the Génoplante *Arabidopsis* annotation project, 2000-2001, INRA-Versailles (performed at Ghent University, Belgium). Project Coordinators: Pierre Rouzé and Dr. Sébastien Aubourg

PhD student, 2000-2003, and Postdoctoral researcher, 2003-2005 at the Research group of Bioinformatics and Evolutionary Genomics, VIB Department of Plant Systems Biology, Ghent University. Advisor: Prof. Dr. Yves Van de Peer

Postdoctoral researcher, 2005-2007 at the European Molecular Biology Laboratory (EMBL), Bork Group

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