



**UNIVERSITÀ  
DI PARMA**

DIPARTIMENTO DI SCIENZE  
DEGLI ALIMENTI E DEL FARMACO



## **AVVISO DI SEMINARIO**

# *Microbial biodiversity for bioproduction*

***Dr. Michael Sauer, Head of Biotechnology at OMV AG, Vienna  
and***

***Dr. Hans Marx, Department of Biotechnology, University of Natural  
Resources and Life Sciences, Vienna***

**Lunedì 9 Marzo-ORE 10:00  
Aula M-Plesso Area delle Scienze**



Michael SAUER is Head of Biotechnology at OMV AG in Vienna, which is an international energy and chemicals provider. Before, he has been Associated Professor at the Institute of Microbiology and Microbial Biotechnology of the University of Natural Resources and Life Sciences (BOKU, Vienna). His research aims at microbial production of base chemicals from renewable resources. In this perspective, metabolic engineering and bioprocess engineering are combined to provide microbial processes of industrial relevance. One focus of this research is on the characterization and optimization of natural producers, exploiting natural diversity of microbial metabolism. Particularly, lactic acid bacteria and yeasts are of industrial interest, due to their high stress tolerance. A second line of research is dedicated to the development of synthetic tools aiding metabolic engineering approaches with a focus on microbial transport processes.

Michael Sauer has a habilitation in Industrial Microbiology (BOKU), a PhD in Biochemistry (University of Vienna), and is a Biotechnologist by training (Swiss Federal Institute of Technology, ETH Zürich).



producing chemicals.

Hans Marx is a Senior Scientist at the Department of Biotechnology at the University of Natural Resources and Life Sciences, Vienna. His research aims at white Biotechnology and Biorefinery. Metabolic engineering of different bacteria and yeasts is studied to produce functionalized molecules as building blocks for chemical synthesis. One of the objectives of this research is the design of novel metabolic pathways using synthetic biology. He is project leader of different projects on microbial fermentation and bioprocess engineering. Hans Marx is a Lecturer at the School of Bioengineering at the University of Applied Sciences FH Campus Vienna since 2008, teaching several courses in Microbiology and Molecular Biology. Hans Marx is a co-inventor of different patents related to fermentation process for