



Naples, December 3-5 2019

Enzyme Discovery and Engineering for Biotechnological Applications

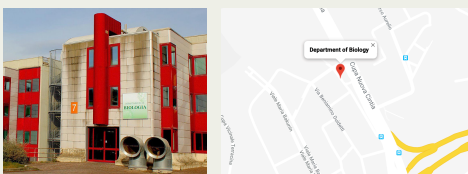
Società Italiana di Biochimica e Biologia Molecolare
Gruppo Biotecnologie

Enzymes play key roles in the cellular physiology and they have been exploited in biotechnology since decades. However, the advent of high-throughput screening methods, cheap deep-sequencing technologies, and efficient data mining tools on one side and molecular dynamics predictions and protein engineering methods on the other, allows to exploit natural biodiversity and enzyme catalysis for the novel applications.

This School aim is to present the state-of-art and discuss advancements in the field of enzyme discovery and engineering with special focus on how studies that allowed significant achievements in biotechnological applications.

The School, organized by the **SIB BIOTECHNOLOGY GROUP**, is addressed to Ph.D. students, postdocs and researchers younger than 35 having basic knowledge of biochemistry and enzymology.

Venue



Sala del Consiglio
Department of Biology
Campus of Monte S. Angelo
University of Naples "Federico II"
Building 7, Via Cinthia 21, 80126 Naples, Italy

**PARTICIPANTS CAN APPLY FOR A SIB
FELLOWSHIP, PLEASE VISIT**

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FOR MORE INFORMATION

Program

Tuesday 3 of December 2019

Prof. Loredano Pollegioni

Dipartimento di Biotecnologie e Scienze della Vita, Università degli Studi dell'Insubria
"Amino acid oxidases: different solutions for novel applications"

Prof. Gianfranco Gilardi

Dipartimento di Scienze della Vita e Biologia dei Sistemi, Università degli Studi di Torino
"Directed evolution of monooxygenases for biotechnology"

Dr. Giovanna Di Nardo

Dipartimento di Scienze della Vita e Biologia dei Sistemi, Università degli Studi di Torino
"Structural tools for the rational design of new biocatalysts"

Wednesday 4 of December 2019

Dr. Beatrice Cobucci-Ponzano

Institute of Biosciences and BioResources, National Research Council of Italy
"Carbohydrate active enzymes for biorefineries"

Dr. Andrea Strazzulli

Department of Biology, University of Naples "Federico II"
"In silico approaches for enzyme discovery by metagenomics"

Dr. Anna Zingale

Thermo Fisher Scientific
"Molecular biology: an overview"

Dr. Giuseppe Perugino

Institute of Biosciences and BioResources, National Research Council of Italy
"New frontiers in biotechnology through the SNAP-tag technology"

Prof. Rachele Isticato

Department of Biology, University of Naples "Federico II"
"Versatile enzyme-display platform based on bacterial spore"

Thursday 5 of December 2019

Prof. Marco Moracci

Department of Biology, University of Naples "Federico II"
"Enzyme engineering for oligosaccharides synthesis"

Registration deadline

November 8th, 2019

<https://edenbiotech.wixsite.com/edenbiotech2019/registration-fee>