



European Summer School on Industrial Biotechnology (ESSIB)

Food and Biorefinery Enzymology

Wageningen, 25-29 September, 2017

The ESSIB is an initiative of the University of Milano-Bicocca (Department of Biotechnology and Biosciences), the University of Stuttgart (Institute of Technical Biochemistry), and the Universitat Autònoma de Barcelona (Department of Chemical, Biological and Environmental Engineering). ESSIB addresses PhD students and postdocs, preferentially from European laboratories, and takes place every year in another country and with another focus. ESSIB is a complete educational program based on lectures, practical laboratory experience, and contacts with companies active in the field.

The ESSIB 2017 will be organised by the Graduate School VLAG of Wageningen University & Research (WUR). The focus will be on **Food and Biorefinery Enzymology**.

Course description

Intensive one-week course from Monday to Friday. Lectures and laboratory courses will be provided by local and invited speakers.

Major topics:

1. Enzymes and industrial food and biorefinery applications
2. Enzyme classification
3. Discovery and improvement of biorefinery enzymes
4. Oxidative enzymes: laccases, LPMOs
5. Enzymes in biotechnology
6. Enzymatic hydrolysis and crosslinking of proteins, plant cell wall degrading enzymes
7. Spectroscopic analysis of enzyme stability

Laboratory courses

1. PC case on calculations and theory of proteases
2. Protein fluorescence spectroscopy and data analysis

Course lecturers

- Willem van Berkel, Harry Gruppen, Mirjam Kabel, John van der Oost, Henk Schols, Jean-Paul Vincken (WUR)
- August Bekkers (Heineken)
- Maarten Egmond (Utrecht University)
- Harry van der Hijden (Unilever Research)
- Sandra Hinz (DuPont)
- Marina Lotti (UNIMIB)
- Roland Ludwig (BOKU, Vienna)
- Lígia Martins (University of Lisbon)
- Marco Moracci (CNR, Napels)
- Margot Schooneveld (DSM)
- Ronald de Vries (Utrecht University/CBS-KNAW)

Fees and registration

This course is part of the annual course programme of the Graduate School VLAG for PhDs, for more details see:

www.vlaggraduateschool.nl/en/courses/course/FBE17.htm

As it is ESSIB policy to keep fees as low as possible in order to support the participation of young researchers, the course fee for ESSIB participants including accommodation, lunches/tea/coffee, and 2 dinners is 500 €.

To apply for participation, please send by **May 15, 2017** to vlag@wur.nl

- a CV including current research topics
- a motivation letter including your expectations for the ESSIB 2017
- a supporting letter by your supervisor

Results will be announced by May 31 2017 and successful applicants can register thereafter.

Location: Wageningen University & Research

Organizers:

From WUR: Dr. Mirjam Kabel & Prof. Willem van Berkel (course directors), Prof. Harry Gruppen & Prof. John van der Oost (scientific board)

From ESSIB: Prof. Jürgen Pleiss, Dr. Pau Ferrer & Prof. Marina Lotti (scientific board)

From VLAG: Chantal Doeswijk, MSc.

More details at: <http://www.ESSIB.eu>

