



Life Sciences and
Facility Management

Institute of
Chemistry and Biotechnology

25th Aug to 2nd Sept 2022

Summer school 2022

Advanced training course:

Cell expansion and protein expression
in standard and single-use bioreactors

www.zhaw.ch/lsfm

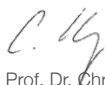


Summer school 2022

The course provides students from the ZHAW, students from partner schools in Switzerland as well as students from abroad the opportunity of an intercultural exchange and knowledge transfer in a unique atmosphere.

Among 16 lectures covering the state of the art in cell cultivation technique which will be conducted online prior to the practical program, 17 different practical exercises will be executed on campus by the students to deepen the theoretical background. The students will meet experts from the biotech industry to debate about latest trends and for more discussions outside the university building an additional social programme is planned.

We are looking forward to welcome you here in Wädenswil.



Prof. Dr. Christian Hinderling

Head of the Institute of Chemistry
and Biotechnology



Prof. Dr. Dieter Eibl

Head of Biochemical Engineering
and Cell Cultivation Technique

Programme information

Award: Course certificate, 3 ECTS, marks are awarded for the exam, written experimental report and oral presentation.

Requirements: Students from B. Sc., M. Sc. and Ph.D. programmes and first year postdoctoral researchers

Level: Participants should be trained in aseptic working techniques

English level: Minimum "First Certificate" in English (FCE, University of Cambridge ESOL Examinations)

Venue:

Theory: Online via MS Teams and Moodle (before practical course in self-study)

Practical: ZHAW, Campus Grüental: www.zhaw.ch/lsfm/location

Social programme:

BBQ, House of Chocolate

Main lecture topics

Basics of cell cultivation techniques for animal cells

Antibody production systems with CHO

Insect cells and BEVS

Stem cells

Cellular agriculture

Engineering aspects and Computational Fluid Dynamics

Lab training

Small groups of 4 persons

Cultivation of CHO cells: Inoculum and IgG production in lab scale bioreactors

Cultivation of hMSCs in t-flasks and small spinner flasks

Demo of freezing CHO cells and handling of insect cells and plant suspension cells

Industry workshop

Latest developments in cell cultivation techniques

Registration and further information

Registration deadline: 31th May 2022

Contact: Iris Poggendorf, Research Scientist, Email: bvt-zkt.icbt@zhaw.ch

Studieren Study and research in Wädenswil: practically-oriented, creative, passionate and reflective

The ZHAW is one of the leading Swiss universities of applied sciences. The School of Life Sciences and Facility Management currently has about 1800 students and over 600 employees. Its study and continuing education options include five Bachelor's and three Master's degree programmes as well as a broad selection of continuing education courses.

Our expertise in life sciences and facility management in the areas of the environment, food and health enables us to make a vital contribution to solving social challenges and improving quality of life. Our success is based on five dynamic institutes with extensive competence in research, development and services in the disciplines of chemistry and biotechnology, food and beverage innovation, natural resource sciences, applied simulation, and facility management.



Environment | Food | Health | Society
Cross-disciplinary Life Sciences
and Facility Management

Contact

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Besuchen Sie uns

