

## Scope

SmartCell is a four-year FP7-EU project that aims to develop fundamental knowledge and enabling technologies for the creation of engineered plant cells producing valuable pharmaceutical molecules which can be successfully extracted and purified for industrial and medical uses. SmartCell will focus on the terpenoid pathway, which produces diverse secondary metabolites many with important and useful pharmaceutical properties.

From this vantage point the fundamental aspects of regulatory compliance for pharmaceutical products is outlined in this workshop. Good Manufacturing Practices (GMP) is a comprehensive system, which forms the basis for the manufacture of safe and effective products of required quality.

This course is starting with an introduction of the basics of GMP and illustrates by the example of the Fraunhofer Institute for Molecular Biology and Applied Ecology the implementation of GMP principles to produce active ingredients for clinical research.

Prior to the workshop, participants are invited to submit questions to the topic of GMP and plant cell cultures. These questions will be addressed during the workshop.

Target participants are scientists who are involved in R&D in the field of plant sciences.

## Referents

### Prof. Dr. Tobias Merseburger

Institute of Biotechnology, ZHAW, Wädenswil

### Dr. Jürgen Drossard

Head of Quality Control, Fraunhofer IME, Aachen

### Dr. Thomas Rademacher

Senior Scientist, Fraunhofer IME, Aachen

## Programme

**Possible DATES 2013: 15, 22 und 24 of April**

### GMP and Plant Cell Cultures - an Introduction

08.00-08.30	<b>Registration, Coffee and Welcome</b>
08.30-10.00	<b>Introduction to GMP: Principles, documents and organisations</b> Tobias Merseburger, ZHAW Wädenswil
10.00-10.30	<b>Coffee break</b>
10.30-11.30	<b>Workshop: Finding answers in GMP regulatory documents</b> Tobias Merseburger, ZHAW Wädenswil
11.30-12.30	<b>Case study: GMP in manufacturing investigational drug substances</b> Jürgen Drossard, IME
12.30-13.30	<b>Lunch</b>
13.30-14.30	<b>Concepts for GMP-compliant cultivation of recombinant plants or plant cells for API production</b> Thomas Rademacher, IME
14.30-15.00	<b>Coffee break</b>
15.00-16.00	<b>Workshop: Questions of participants - Discussion</b> Jürgen Drossard, Thomas Rademacher and Tobias Merseburger

## Partners



## Registration

Please register at [www.ibt.zhaw.ch](http://www.ibt.zhaw.ch).

## Fee

GMP-Workshop	1 day
<b>date</b>	CHF 100.-

The conference fee includes coffee breaks, lunches as well as VAT. Accommodation is not included.

## Submission questionnaire

Prior to the workshop, participants are invited to submit questions to the topic of GMP and plant cell cultures. These questions will be addressed during the workshop. The questions should be returned by e-mail to [johanna.braendli@zhaw.ch](mailto:johanna.braendli@zhaw.ch).

## Deadlines

<b>date</b>	Registration deadline
<b>date</b>	Submission of questionnaire

## Contact

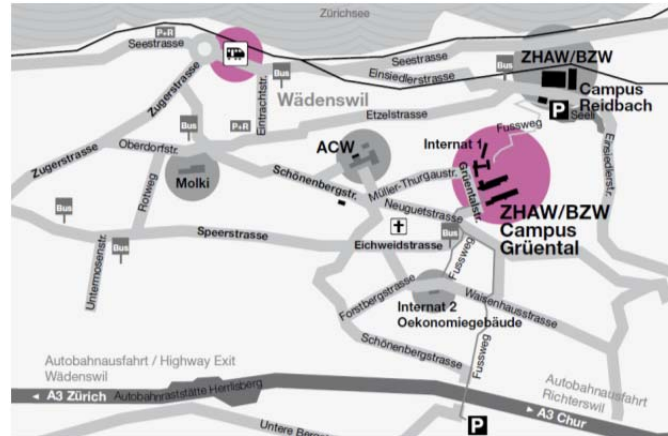
Participants	Johanna Brändli, +41 58 934 56 19 <a href="mailto:johanna.braendli@zhaw.ch">johanna.braendli@zhaw.ch</a>
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## Postal address

Zurich University of Applied Sciences  
School of Life Sciences and Facility Management  
Grüntal, CH-8820 Wädenswil  
Switzerland

## Venue

The workshop will be held at the ZHAW School of Life Sciences and Facility Management in Wädenswil/Zurich. The Campus Grüental can be easily reached by public transport.



## How to find us – from Zurich to Wädenswil

### By train (for details, see [www.sbb.ch](http://www.sbb.ch))

- From the Zurich main railway station (Hauptbahnhof) to Wädenswil: trains five times an hour (S2, S8, Interregio), travel time 20-30 minutes
- From Zurich airport to Wädenswil: direct trains every 30 minutes (S2), travel time 35 minutes

### By car

Leave the A3 motorway (Zurich-Chur) at the exit 'Wädenswil' and follow the sign 'Hochschule'.

### From Wädenswil railway station to ZHAW Grüental Campus

- By public transport: buses number 123 and 126 to the bus stop 'Hochschule'
- By taxi from Wädenswil railway station (approximately CHF 15.- one way): Wädi Taxi +41 44 780 52 52 or City Taxi +44 780 77 77

### Accommodation

For recommended hotels see registration sheet.

Zurich University  
of Applied Sciences

**zhaw** Life Sciences and  
Facility Management



## Workshop

# GMP and Plant Cell Cultures - an Introduction

## Date

Campus Grüental,  
Zurich University of Applied Sciences

Wädenswil, Switzerland

[www.ibt.zhaw.ch](http://www.ibt.zhaw.ch)  
[www.smart-cell.org](http://www.smart-cell.org)

