

Scope

This symposium will uniquely demonstrate beneficial interconnections between **research**, **business** and **education**. Preparing students for the world of tomorrow is a challenging task. As job profiles are changing constantly, universities need to adapt their programmes accordingly and focus on developing competencies in a broad context alongside equipping students with sound knowledge of the subject area.

On the **first day** of the symposium students will defend their business ideas and be further inspired by advice from entrepreneurs and the audience.

The **second day** aims to open up the NBO-concept for critical discussion, and outline new opportunities for collaboration with industry as partners or coaches.

There are **three main reasons** for organising the NBO-Symposium:

To give students a voice: During the last five months, students enrolled in the Master's study programme in Pharmaceutical Biotechnology have analysed, discussed and described selected new business opportunities (NBO) in the field of microbial biotechnology. They will present their NBO-analysis results.

To introduce entrepreneurs who have successfully established their own businesses and will present personal experiences.

To promote the NBO-programme by presenting the concept to not yet involved representatives from industry, professional associations and academia.

Scientific committee & coaches

- Rebecca Buller
- Mike Cook
- Petra Huber
- Karin Kovar
- Hans P. Kocher
- Maria Lüder-Specht
- Vera Luginbühl
- Hans-Peter Meyer
- Iva Sedlak

Organising committee

- John Brooker
- Susanne Dombrowski
- Marianne Ernst

Tuesday, 2 February 2016

NBO-symposium (Room GA 203)

Students' presentations: 10 min talk, 15 min discussion (chaired by Mike Cook & Karin Kovar)

10.00	Opening Christian Hinderling, Head Institute of Chemistry and Biotechnology
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10.05 - 10.35	Combining philanthropy and business Frank Grossmann, Foundation Orphanhealthcare
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Circular economy and bio-economy concepts

10.35 - 11.00	Fucoanthin production from whey Martin Glauser & Mischa Stadler
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11.00 - 11.25	Carotenoid production with <i>Pichia pastoris</i> Sandra Chenaux & Ubiratan Moura
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11:30 – 12:30	Lunch buffet and networking
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12.30 - 13.00	Innovation in pharmaceutical biotechnology Dragan Grabulovski, Grabulovski Consulting Services
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Emerging technologies and cell factories

13.05 - 13.30	Microgravity effects on protein production Dominik Mächler & Joel Varonier
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13.30 - 13.55	Penicillin G acylase for production of dipeptides Claudio Casutt & Nicolas Meier
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14.00 – 14.45	Coffee break and discussion
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Biotechnology for novel cosmetics

14.45 - 15.10	Hyaluronic acid with <i>Pichia pastoris</i> Janine Staub & Nicola Matz
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15.10 - 15.35	Dermocosmetics for diabetics Linda Schatzmann & Klaus Kienle
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General discussion, summary of the day and future steps

15.40 - 16.40	Hans-Peter Meyer (lead)
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16:40 - 17:30	Apéro
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Wednesday, 3 February 2016

NBO-concept: current and future needs (Room GA 203)

The NBO-course (conferred Best Teaching Award 2015 by ZHAW) has been continuously developed from 2010 and aims to:

- impart cross-disciplinary knowledge
- develop competencies necessary to initiate, evaluate and implement a viable new business idea.

During the course, students analyse a potential business idea in terms of its technical, economic and ecological feasibility as well as its societal impact, and address legal and ethical issues. They are supervised by lecturers and supported by coaches with industrial experience.

Until now, topics for the NBO-analysis have been put forward by lecturers. The active involvement of external partners would add considerable additional value to the NBO-course:

- students gain insight into their future working environment,
- lecturers receive expert support for teaching, and
- industry partners are provided with an evaluation of potential business ideas, which might lead to future R&D collaborations.

09:00 – 09:25	5 years NBO: our achievements Karin Kovar & Mike Cook
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From NBO to success

09.30 - 09.50	A tool for rational fedbatch design Matthias Barmettler (NBO 2015)
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09:50 - 10.10	The best NBO presentation of 2016
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10.10 - 10.30	Coffee break and discussion
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Round-table discussion:

10.30 - 11.45	NBO in biotechnology: discover the potential of your company Discussion with representatives from industry, academia and professional associations <i>Moderation:</i> Pavel Kraus, AHT intermediation GmbH
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11.45 - 12.00	NBO-course: next steps Karin Kovar & Hans P. Kocher
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12.00 – 13.00	Lunch and networking
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Sponsors & supporters

Kontaktgruppe für Forschungsfragen – KGF



National thematic networks (NTNs)



Registration

The event is free of charge, but space is limited.
Registration before 26 January 2016 is, therefore, compulsory:
www.zhaw.ch/icbt/nbo

Contact & venue

ZHAW, Zurich University of Applied Sciences
School of Life Sciences and Facility Management
Room GA 203 (Aula)
Campus Grüental
CH-8820 Wädenswil, Switzerland
GPS coordinates: 47° 13' 4" N / 8° 40' 44" E

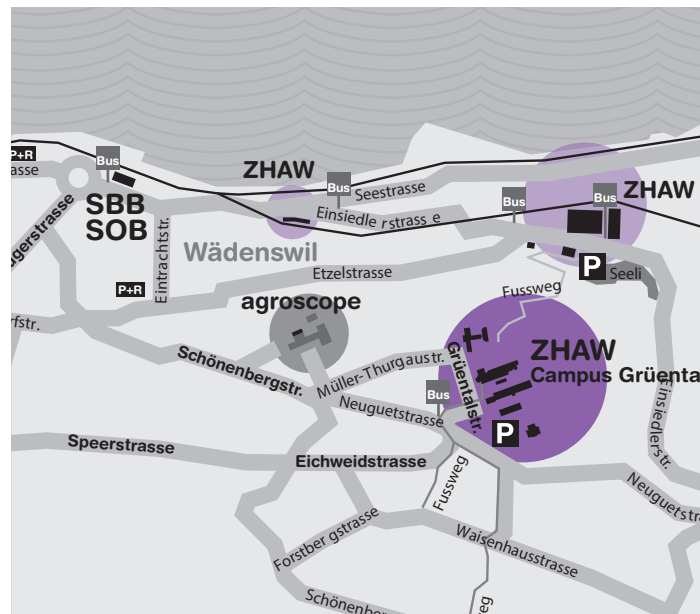
Dr. Katrin Hecht
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Public transport

From Bahnhof Wädenswil to bus stop Campus Grüental
Buses 123 or 126

Accommodation

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January 2016 – subject to alterations – design: ZHAW – CO₂ neutral printing on FSC paper – Theiler Druck, AG – number of copies: 100