



Life Sciences und
Facility Management

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BioTech 2009

Isolation, Identification and Preservation of Microorganisms

29/30 June 2009

Campus Grüental, Wädenswil
Switzerland

Exhibitors



Partners



Collections and Preservation

Chair: Tobias Merseburger

12:30 Registration
 Campus Grüental

13:00–13:10 **Welcome message**
 Tobias Merseburger, ZHAW Wädenswil

13:20–13:30 **CCOS – Culture Collection of Switzerland**
 Martin Sievers, Gottfried Dasen, ZHAW Wädenswil

13:30–14:15 **Culture collections, biological resource centres and the way ahead**
 Erko Stackebrandt, DSMZ Braunschweig, Germany

14:15–14:50 **Biodiversity and biosafety**
 Hans Hoshbach, Federal Office for the Environment, Bern

14:50–15:30 Coffee break and exhibition

15:30–16:10 **Freeze drying of dairy cultures for short and long term storage**
 Wilhelm Bockelmann, Federal Research Institute of Nutrition and Food, Kiel, Germany

16:10–16:50 **Novel drying techniques for starter and probiotic cultures**
 Petra Först, TU München, Germany

16:50–17:30 **The organisation and banking of non-clinical bio samples**
 Ashley Hayes, F. Hoffmann-La Roche, Basel

17:30–18:00 Poster session

19:00–
open end Conference dinner

Bioprospecting and Identification

Chair: Cathy Kroll

8:30 Registration
Campus Grüental

9:00–9:40 **Ecological bioprospecting**
Kurt Hanselmann, swiss i-research
and training, Zürich

9:40–10:20 **Bioprospecting in the green:
Isolating novel probes for chemical genetics
from cyanobacteria**
Karl Gademann, EPFL, Lausanne

10:20–10:50 Coffee break, exhibition and poster session

10:50–11:20 **Molecular diagnostics today – a short overview**
Jürg Frey, Agroscope Changins-Wädenswil, Wädenswil

11:20–11:50 **Maldi-Tof mass spectrometry for identification
and differentiation of bacterial strains**
Peter Schumann, DSZM Braunschweig, Germany

11:50–12:20 **Isothermal micro-nano calorimetry:
a new method for rapid detection and
identification of microorganisms
and evaluation of antimicrobial agents**
Oliver Braissant, Ueli von Ah, Dieter Wirz,
Alma U. Daniels, University of Basel

12:20–13:30 Lunch, exhibition and poster session

Bioprospecting and Identification

Chair: Martin Sievers

13:30–14:10 **Optimized by evolution – bacteriophages provide novel technologies for rapid and specific bacterial detection**
Martin Loessner, ETH, Zürich

14:10–14:50 **Strain typing and tracing in the food industry R&D at Nestlé**
Bernard Berger, Nestlé, Lausanne

14:50–15:20 Coffee break, exhibition and poster session

15:20–15:50 **Detection of MRSA from nasal swabs using a commercial real-time PCR assay**
Stefan Lange, Roche Diagnostics, Rotkreuz

15:50–16:30 **Cultivating the “non-cultivables”**
Thomas Egli, EAWAG Dübendorf

16:30–17:10 **Rapid detection of antibiotic-resistance genes in Gram-positive bacteria using a microarray**
Vincent Perreten, University of Bern

17:10–17:25 **Poster awards and closing remarks**
Corinne Gantenbein-Demarchi (ZHAW),
Roger Kuhn (ZHAW), Dieter Eibl (ZHAW),
Marc Fehlmann (Produits Dentaires, Vevey),
Sergio Schmid (HES-SO Valais),
Tobias Merseburger (ZHAW)

18:00–
open end Alumni get-together

Scope of the conference

Techniques for maintenance and correct identification remain the key factors for successful and safe handling of microorganisms. Only viable and accurately characterised microorganisms allow the development of reproducible bioprocesses and products. Controls for purity and identity of strains are necessary to achieve optimal yields and well-defined products, as well as safety for personnel.

This symposium focuses on three main topics:

- the preservation of microorganisms;
- recent techniques for their identification;
- and bioprospecting and screening for microorganisms to be used in new applications.

The preservation of microorganisms as the fundamental source of value for biotech companies is important for long-term storage, for culture collections and manufacturers of starter cultures, and for the transport of strains. Recently there has been a shift from “classical” microbiological to more “molecularly-oriented” techniques for the identification of microorganisms. Modern techniques that allow rapid, accurate, cost-effective and simple identification of bacteria are now being used in medical microbiology, environmental studies and biotechnology.

Scientific Committee

Gottfried Dasen	Institute of Biotechnology, ZHAW, Wädenswil
Cathy Kroll	Swiss Biotech Association
Tobias Merseburger	Institute of Biotechnology, ZHAW, Wädenswil
Martin Sievers	Institute of Biotechnology, ZHAW, Wädenswil
Oreste Ghisalba	Gishalba Life Sciences GmbH

Organising Committee

Domenico Alexakis	Zurich Park Side
Reinhard Glück	Swiss Biotech Association
Daniel Gygax	Biotechnet Switzerland, Basel
Adrian Sigrist	Unitectra, Zürich/Bern
Stephan Spichiger	Netzwerk Wädenswil (Alumni)
Ernst Stocker	Stadtpräsident Wädenswil

Registration

www.biotech2009.ch/registration

Fees

	before 31 May 2009*	after 31 May 2009
29 and 30 June 2009 (2 days)	CHF 250.–	CHF 300.–
29 or 30 June 2009 (1 day)	CHF 150.–	CHF 200.–

* The early registration fee applies to all students (international student ID number to be given). Students presenting a poster will be granted free admission to the conference (meals, conference proceedings and accommodation not included).

Deadlines

18 May 2009	Abstracts
25 May 2009	Notification of acceptance (abstracts)
31 May 2009	Early registration deadline
05 June 2009	Registration (and payment) deadline

Exhibition & Sponsoring

Companies from the biotechnological and related industries are invited to present their latest developments at the exhibition. Details of and conditions for company presentations (i.e. stands, printed and online advertisements) are listed on www.biotech2009.ch

Contact

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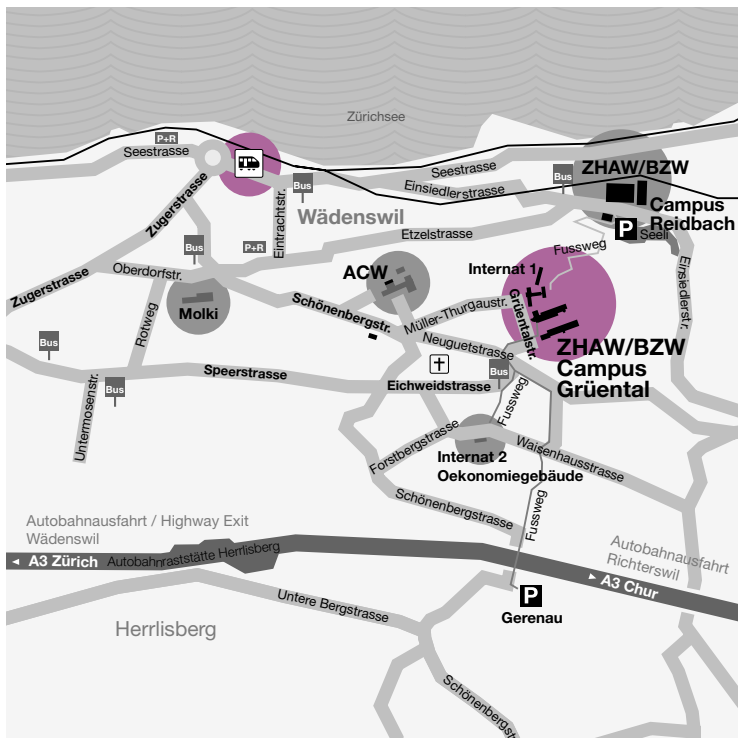
Zürcher Hochschule für

Angewandte Wissenschaften

Life Sciences and Facility Management

Grüntal, 8820 Wädenswil

Schweiz



How to find us

From Zürich to Wädenswil

by train

- From Zürich mainstation (Hauptbahnhof) to Wädenswil, trains five times an hour (S2, S8, Interregio), journey time 20–30 minutes
- From Zürich airport to Wädenswil, direct trains twice an hour (S2), journey time 35 minutes

For details see: www.sbb.ch

by car

- Leave the A3 motorway (Zürich–Chur) at the exit Wädenswil and follow the signs “ZHAW Tagung”.

From Wädenswil railway station to the ZHAW

- by public transport: buses number 123 and 126 (bus stop “Hochschule”)
- by taxi from Wädenswil railway station (approx. 15 CHF one way): Wädi Taxi +41 44 780 52 52 or City Taxi +41 44 780 77 77
- on foot, approx. 20 minutes walk uphill

Accommodation

For recommended hotels, see www.biotech2009.ch