



Life Sciences and  
Facility Management

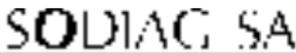
AAACTC AAGCCGGTGA TGTTCAGCT TATAATCCGA CCAACGTTAT ATCTAT  
TTTGGA TGCTGATCAG TTTTATTCGG GCAACCGTCC TGCGATTGAT GCAGGA  
GCTTCT TATCATGAGC TTGAAGCCTT TGCTCAATTT GGATCTGATC TCGATG  
TTGAAC ATCAAGTAAT TGTTTTGTAT GCTTTGACAC ACGGATATTT GGATGA  
TTTTGC TGCAATCAAA AAAACTGGAA ACTTGCCTGA CGAAAAAGAT ATAAAT  
GAGGCT AATAATAAT GGCTAGCCTT CAAGATATTC GTCGTGGGAT TGATTG  
GTCCGG AFATCTCGAT TATGCTAATC ATGTTGAAGC GATTGTTGCC CACCTT  
ATTCTT GTGATTACTT CTGATCGGGG CTTGGTCGGC GGCTATAATA ACCAAG  
AGGGTT CTGATTATTA TGCTAAAAGA GGCTTCACTA TGGCTTTTGA AAATCG  
ATTTGA TGCCTTGGA ZHAWTTTAT TAATCGTTTG AAAAATGATG TTGTTA  
GCCAAT CCAGTATTTA CGAATTTGAA CCGGCACCTG AAAGTTTGTT AAAAAT  
AAGTGC GATGCGGGCA GCGACAGATA ATGCGAAAGA TTTGATTTCT ACTCTC  
CAGTAA GAAAGGAGAA ATAGATGSCA GAAAAGAAAA CAACAAAAGC TACTGC  
GGATTT GGCTGAAGGA ACTGTTCTTC AGGTTATCGG ACCGATTGTA GATGTC  
ATCGAA GTTTCAATTG ATCTTGGCGA CAGTGTAGTT CGSACGATTG CGATGG  
CGTTGG GACGTGTCTT TAATGTTCTT GGTGAGCCTG TTGATGGAGG AGATCC  
ACTTGA AACAGGTATC AAAGTTATTG ATTTACTTTGA GCCCTATTTG CGTGGT  
GGCCAT AATGGAATTT CTGTCTTTAC CCGAGTTGGT GAACGTACTC GTGAAG  
CGCCTG GAGCGCGTAT GCGTGTGGT TTGACTGGAC TGACGATGGC CGAAGA  
TTCTGC TTTACTTGGC CGTATTCCTT CAGCCGTTGG TTACCAGCCG ACATTA  
GTTCCG GCTGATGATT ATACTGATCC GGCTCCGGCA ACAACTTTTG CTCATT  
CTAGTG CTTTAACACC TGATATTGTT GGTGAAGATC ACTATGAGGT TGCTAG  
TCAGA GAAAAGCATC CTAATGCTG CTGCTGCTAT CCAATTGTTG TTAAGT

# 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 Hosbach, 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](http://www.biotech2009.ch/registration)

### Fees

	<b>before</b> 31 May 2009*	<b>after</b> 31 May 2009
29 <b>and</b> 30 June 2009 (2 days)	CHF 250.–	CHF 300.–
29 <b>or</b> 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](http://www.biotech2009.ch)

### Contact

Irène Tinguely (for participants)

Tel. +41 58 934 59 80

Marianne Ernst (for exhibitors and sponsors)

Tel. +41 58 934 57 50

Postal address:

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](http://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](http://www.biotech2009.ch)