

## Speakers & Lab Coaches



Alexander Bartes  
Roche Diagnostics



Barbara Gerten  
Merck KGaA



Prof. Dr. Diana Graubaum  
Beuth University of  
Applied Sciences



Marc Mauro  
Microbiologics Inc.



Gerold Schwarz  
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Roche Diagnostics GmbH



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Beuth University of  
Applied Sciences

# Microbiological Identification

## Hands-on Laboratory Course

11 - 13 March 2020 | Berlin, Germany



*From microscopic to biochemical to genotypic to mass spectrometric to spectroscopic methods*

## Highlights

- Introduction into the identification of microorganisms
- Processing and evaluation of prepared cultures from different areas. e.g.
  - environmental monitoring,
  - water
- Preparation of pure cultures
- Identification with
  - microscopic and staining methods
  - manual biochemical methods
  - molecular genetic rapid methods using the example of Mycoplasma detection
  - MALDI-TOF MS and FTIR spectroscopy
- Usage of reference strains
- Basic knowledge yeast and moulds identification
- Tips and tricks, helpful literature and addresses

- Practical training in small groups
- Lab place and microscope for every participant
- One instructor per 3 participants
- Extended part yeast and moulds and mycoplasma ID
- Comprehensive documentation incl. images

## Objective

You will learn how to recognise microbiological cultures. You will further get to know classical procedures for the selection and identification and how to analyse the microbiological concept. In addition you will get an insight into the needed media and in modern rapid methods.

Due to the limited number of participants and the supervision by experienced lab staff you will be able to do the work, to employ the methods and to make the analyses yourself. For that purpose there will be lab places with microscopes in the S2 lab for every participant. Accompanying presentations and a comprehensive documentation will provide the necessary knowledge base.

## Background

Microbiological trainings are commonly based on presentations or theoretical workshops. Quite frequently there is either no advanced practical training at all or it is only very limited.

This completely new designed lab course is supposed to be an extension of the microbiological seminars as part of the GMP Certification Programme "Microbiological Laboratory Manager".

## Target Audience

Personnel from labs for

- Quality Control
- Hygiene
- Monitoring

with basic microbiological knowledge.

A special thanks for supporting this course goes to BioMérieux, Bruker, DoenitzProLab, Merck, Roche Diagnostics and Dastex GmbH.



## Programme

Wednesday, 11 March 2020,  
09.30-18.00 h

- Welcome and organisational issues
- Basic knowledge identification of microorganisms
- Handling and examination of prepared cultures from different samples e.g. environmental monitoring, water on contact plates, swabs, membranes
- Preparation of pure cultures
- Introduction into the work with microscope and identification of microorganisms
- including staining procedures
- Practice of biochemical rapid tests



Thursday, 12 March 2020,  
08.30-18.00 h

- Overview Molecular genetic methods and Mycoplasma detection
- Identification with Maldi-TOF MS and FTIR spectroscopy
- Practice in manual biochemical identification methods (Multi-Test-Systems, additional tests) and special media, e.g. chromogenic media using the prepared cultures
- Practice in molecular genetic rapid methods using the example of Mycoplasma detection
- Practice in identification of bacteria, yeasts and moulds by MALDI-TOF MS and FTIR spectroscopy

Friday, 13 March 2020,  
08.00-15.30 h

- Analysis of the results from molecular genetic rapid methods, MALDI-TOF MS, FTIR spectroscopy and manual biochemical methods
- Increasing laboratory identification system performance with the use of quality control -Usage of reference strains
- Consolidation and discussion of all results from bacterial identification
- Basic knowledge and practice of yeast and moulds identification including microscopy
- Beneficial literature and helpful addresses

## Social Event

In the evening of the first course day, you are cordially invited to a social event. This is an excellent opportunity to share your experiences with colleagues from other companies in a relaxed atmosphere.



## Speakers



Alexander Bartes  
Roche Diagnostics, Penzberg, Germany

Alexander Bartes studied chemical engineering with emphasis on biotechnology and genetic engineering at the University of Applied Science Aachen/Jülich, Germany. After completion of his master thesis at Roche Bioscience, Palo Alto, CA, USA he joined Roche Diagnostics, Penzberg in 2002. From 2009 to 2014 he was Manager R&D. He was responsible for the development of qPCR/NAT based assays and Kits for Roche Applied Science Custom Biotech. Currently he is working at Roche in the Microbiology QC department.



Barbara Gerten  
Merck KGaA, Darmstadt, Germany

After her studies in microbiology and biochemistry, Barbara Gerten was employed in different companies responsible for Quality Control and Research and Development. Since 2008 she is working at Merck KGaA in different positions. She is a member in several national and international bodies of microbiological topics in ISO and CEN and a member of ECAs Microbiology advisory board.



Prof. Dr. Diana Graubaum  
Beuth University of Applied Sciences,  
Berlin, Germany

Diana Graubaum studied veterinary medicine at the Free University Berlin. She got her degree in 2003 and worked since 2001 as scientist at the FU Berlin. Currently she is the Head of Section V Food Microbiology at the University for Applied Sciences.



Marc Mauro  
Technical Support Specialist,  
Microbiologics Inc., France

Marc studied at the EMSISAB and the Eötvös Loránd University. After his studies he joined AWEL as application engineer. In 2015, he joined Alliance Bio Expertise in the department for technical and scientific support. Since 2016 he is Technical Support Specialist EMEA at Microbiologics.



Gerold Schwarz  
Bruker Daltonics, Manager Application  
Support, Germany

Gerold studied at the University of Tübingen. After his graduation in Biochemistry, he started his career at Waters. After a short stay at the MPI, he joined Bruker in 2006. From 2015 to 2017 he worked for Analytik Jena. Since 2018, he is responsible for the management of the application support at Bruker. During his career, mass spectrometry was always one of his focal points.

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Reservation Form (Please complete in full)

Microbiological Identification – Hands-on Laboratory Course | 11 - 13 March 2020, Berlin, Germany

Title, first name, surname

Department

Company

Important: Please indicate your company's VAT ID Number

Purchase Order Number, if applicable

CONCEPT HEIDELBERG

P.O. Box 101764

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D-69007 Heidelberg

GERMANY

City

ZIP Code

Country

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E-Mail (Please fill in)

#### General terms and conditions

- If you cannot attend the conference you have two options:
1. We are happy to welcome a substitute colleague at any time.
  2. If you have to cancel entirely we must charge the following processing fees:
    - Cancellation until 2 weeks prior to the conference 10 %
    - Cancellation until 1 week prior to the conference 50 %
    - Cancellation within 1 week prior to the conference 100 %
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In case you do not appear at the event without having informed us, you will have to pay the full registration fee, even if you have not made the payment yet. Only after we have received your payment, you are entitled to participate in the conference (receipt of payment will not be confirmed!) (As of January 2012).

German law shall apply. Court of jurisdiction is Heidelberg.

Privacy Policy: By registering for this event, I accept the processing of my Personal Data. Concept Heidelberg will use my data for the processing of this order, for which I hereby declare to agree that my personal data is stored and processed. Concept Heidelberg will only send me information in relation with this order or similar ones. My personal data will not be disclosed to third parties (see also the privacy policy at [http://www.gmp-compliance.org/eca\\_privacy.html](http://www.gmp-compliance.org/eca_privacy.html)). I note that I can ask for the modification, correction or deletion of my data at any time via the contact form on this website.

## Date

Wednesday, 11 March 2020, 09.30 – 18.00 h

(Registration and coffee 09.00 - 09.30 h)

Thursday, 12 March 2020, 08.30 -18.00 h

Friday, 13 March 2020, 08.30 – 15.30 h

## Venue of the Laboratory hands-on Training

Beuth Hochschule für Technik, University of Applied Science

Labor für Lebensmittel Mikrobiologie/

Laboratory for Food Microbiology

Forum Seestraße, Seestraße 64, 13347 Berlin, Room FS 338

**Special remark:** By the law of the hosting country, working in a S2 Laboratory during pregnancy is not allowed. Therefore pregnant participants will be excluded from attendance.

## Hotel (Overnight stay only)

InterCityHotel Berlin Hauptbahnhof

Katharina-Paulus-Straße 5

10557 Berlin, Germany

Phone +49 (0) 30 288 755 0

Email [berlin-hauptbahnhof@intercityhotel.com](mailto:berlin-hauptbahnhof@intercityhotel.com)

 Daily bus transfers from the hotel to the Laboratory and back are included

## Fees (per delegate, plus VAT)

ECA Members € 2,390

APIC Members € 2,490

Non-ECA Members € 2,590

EU GMP Inspectorates € 1,295

The conference fee is payable in advance after receipt of invoice and includes conference documentation, lab materials, bus transfer from hotel to laboratory, dinner on the first day, lunch on all three days and all refreshments. VAT is reclaimable.

## Accommodation

CONCEPT HEIDELBERG has reserved a limited number of rooms in the conference hotel. You will receive a room reservation form/POG when you have registered for the course. Reservation should be made directly with the hotel. Early reservation is recommended.

## Registration

Via the attached reservation form, by e-mail or by fax message.

Or you register online at [www.gmp-compliance.org](http://www.gmp-compliance.org).

## Conference language

The official conference language will be English.

## Organisation and Contact

ECA has entrusted Concept Heidelberg with the organisation of this event.

CONCEPT HEIDELBERG

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For questions regarding content please contact:

Mr Axel H. Schroeder (Operations Director) at

+49(0)62 21/84 44 10, or at

[schroeder@concept-heidelberg.de](mailto:schroeder@concept-heidelberg.de).

For questions regarding reservation, hotel, organisation etc. please contact:

Ms Isabell Neureuther (Organisation Manager) at

+49(0)62 21/84 44 49, or at

[neureuther@concept-heidelberg.de](mailto:neureuther@concept-heidelberg.de).