KoRS-CB
Training Program 2010
How many courses do I have to take?

TOTAL: 4 courses out of 3 areas within 3 years

AREAS:
- Basic scientific courses (basic)
- Advanced scientific courses (adv.)
- Transferable skills (TS) and Management courses (MC)

Which courses shall I take?

This depends on your educational background and your research interests and should be discussed with your Thesis committee.
## Overview 2010

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<th>Area</th>
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<td>Career Development</td>
<td>30.-31.3.</td>
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7-8 January / 11-12 January 2010

Academic Presenting – Scientific Writing

Content

Through input from the trainer, practical exercises and peer reviews, this workshop is designed to give researchers the chance to get feedback on and improve their academic English. The main aim of the course is to develop a critical awareness of presentation techniques, in order to make informed decisions and optimize personal style.

Lecturer: Millie Baker
Room: Y 310
Course Area: Transferable skills
Participants max.: 10
Contact: Heike Brandstädtter
Project Management in Biotechnological Industries

Content

Working in pharmaceutical industries represents a desirable target of many scientific graduates. This workshop mediates basic and advanced data considered as essential for getting started in biotech industries.

Lecturer: Christian Grote-Westrick
Room: V 901
Course Area: Management course
Participants max.: 12
Contact: Heike Brandstädtter
Advanced Bioimaging

Keywords
Fluorescence Lifetime Imaging – Multiphoton microscopy
Label-free microscopy

Requirement: attendance of “Bioimaging I”

Lecturer: Christof Hauck, Andreas Zumbusch
Room: (will be announced)
Course Area: Advanced scientific course
Participants max.: 10
Contact: Andreas Zumbusch
Extramural Funding in Science

Content

How can I finance my ideas and myself in science by extramural funding? How do I find the right funding program? How do I write a success promising proposal? This workshop gives the participants guidelines to move strategically and effectively within the network of research and funding possibilities.

Lecturer: Wilma Simoleit
Room: Y 310
Course Area: Management course
Participants max.: 10
Contact: Heike Brandstädter
Gene Expression and Protein Purification Strategies

Keywords

Introduction into recombinant gene expression; Diverse expression systems (Bacteria, yeast, Baculo virus); Cloning strategies; Tagging and affinity purification of recombinant proteins

Lecturer: Elke Deuerling, Thomas Mayer
Room: L 601
Course Area: Advanced scientific course
Participants max.: no restriction
Contact: Thomas Mayer
Career Development in Science

Content

How can I benefit from my scientific ideas? How can I develop my career starting in science? How can I exploit my research? The participants get an overview about national and international careers at Universities and Non-University institutions. Moreover, they gain insights into the basics of patent utilization.

Lecturer: Wilma Simoleit
Room: Y 310
Course Area: Management course
Participants max.: 10
Contact: Heike Brandstädter
### Bioimaging I

**Keywords**

Theory and practice of fluorescence and confocal microscopy, spinning-disk and total internal reflection microscopy (TIRF): Lecture, Demo, Hands On

<table>
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<tr>
<th>Lecturer:</th>
<th>Elisa May, Daniela Hermann</th>
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<td>Participants max.:</td>
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<tr>
<td>Contact:</td>
<td>Elisa May</td>
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Intercultural Communication

Content

This practice- and applications-oriented workshop addresses a problem often underestimated or overlooked in scientific education: how to combine a conceptual understanding of the impact of key cultural issues on scientists' approach to discussing the facts, defining and solving problems, and providing leadership and supervision in the international workplace, with concrete skills training.

Lecturer: Alexia Petersen
Room: Y 310
Course Area: Transferable skills
Participants max.: 10
Contact: Heike Brandstädter
Proteomics

Keywords

General intro (proteomics workflow, mass spectro-meters, ESI-/MALDI-ionisation, mass analyzers); ESI-MS and MALDI-MS practice; Sample preparation – theory and practice; LC-MS and fragmentation techniques – theory and practice; Special applications (SILAC, ICAT, protein quantification)

Lecturer: Andreas Marquardt
Room: Z 613
Course Area: Advanced scientific course
Participants max.: 10
Contact: Andreas Marquardt
Determination of Macromolecular Structure

Keywords

Introduction and comparison of methods available for structure determination of biomolecules; NMR – theory and practice; Crystallography – theory and practice

Lecturer: Kay Diederichs, Heiko Möller, Wolfram Welte
Room: L 601, L 1201
Course Area: Advanced scientific course
Participants max.: 15
Contact: Kay Diederichs, Heiko Möller, Wolfram Welte
Practical Screening Data Analysis

Content

We will introduce KNIME, an open source data analytics framework together with extensions that allow to process screening data, such as activity information or cell assay images. The course consists of lectures with extensive hands-on sessions. After successful attendance participants should be able to use KNIME to process and analyse their own data independently.

Lecturer: Michael Berthold, Thorsten Meinl, Martin Horn
Room: Z 613
Course Area: Basic scientific course
Participants max.: 15
Contact: Michael Berthold
Several courses offered in 2010 will also take place in 2011. In addition we provide the following courses and workshops:

- From Genes to Proteins
- Natural Products and Biopolymers
- Bioconjugation Chemistry
- Biomedicine I
- Kinetics – Molecular Interaction
- Combinatorial and High Throughput Technologies
- Computational Life Science
Contact

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