**Lecture Series with Tutorials – Frontiers in Biosciences II – Winter Semester 2016/2017**

**Lecture period:**

"Core competencies week"
- mandatory for all students

2-week lecture/tutorial modules organized by each of the eight Majors of the master program, focussing on concepts, knowledge and specific methodologies
  - every student has to choose at least two modules (can be different from the own Major)
  - structure, contents of the modules and sign-up is explained during Welcome Events on Oct. 17
  - mandatory attendance of the chosen modules (controlled by sign-up sheet); no written exam
  - at least 10 people have to sign up in a Major’s module so it will take place

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Core competencies</th>
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<td>mandatory</td>
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<tr>
<td>Week 1</td>
<td>09.01-13.01.2017</td>
<td>Genetics models, data processing and analysis, scientific writing and publishing, ethics in science, etc.</td>
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**Choice of topic**
- Cancer Biology | Development
- Infectious Diseases | Evolution & Ecology
- Neurosciences | Molecular Plant Sciences
- Systems Biology | Molecular and Cellular Biology

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**Schedule of the 2-week 'Minor' in Cancer Biology**

*lecture time: 08:15-09:45 a.m.; location depends on number of participants and will be announced in time*

**Week 2 (16.-20.01.2017)**

L1 The Nature of Cancer: (Ilse Hofmann) 16.01.2017 (Mon)
L2 Hallmarks of Cancer I: Oncogenes and Tumor Suppressors (Cindy Körner) 17.01.2017 (Tue)
L3 Hallmarks of Cancer II: Epigenetics (Daniel Lipka) 18.01.2017 (Wed)
L4 Hallmarks of Cancer III: Stem Cells and Cancer (Andreas Trumpp) 19.01.2017 (Thur)
L5 Hallmarks of Cancer IV: Multistep Tumorigenesis (Karin Müller-Decker) 20.01.2017 (Fri)

**Week 3 (23.-27.01.2017)**

L6 Hallmarks of Cancer V: Tumor Microenvironment - Metastasis (Thordur Oskarsson) 23.01.2017 (Mon)
L7 Prevention: Virology-HPV (Martin Müller) 24.01.2017 (Tue)
L8 Treatment of Cancer: Immunotherapy (Viktor Umansky) 25.01.2017 (Wed)
L9 Treatment of Cancer: Personalized Medicine (Stefan Fröhling) 26.01.2017 (Thur)
L10 Personalized Medicine and Ethics: Who is the owner of the sequencing data? (Christoph Schickhardt) 27.01.2017 (Fri)