

## Crash Course:

### Basics in Molecular and Clinical Immunology

Location: Georg-Speyer-Haus, Lecture Hall,  
Paul-Ehrlich-Str. 42-44

July 02. – 03. 2011

- will be held in English - some basic nutrition is provided -

Organised by Heinfried H. Radeke, Ursula Dietrich, Silvia Koob

Saturday, July 2<sup>nd</sup>, Start: 10 am

#### I. Innate Immunity

10:00 – 10:30 Heinfried Radeke: Introduction to the immune system and basic defence mechanisms

10:30 – 11:30 Zoe Waibler: Viral Infection, Type I interferons at the transition from innate to adaptive immunity

11:30 – 11:45 *short break*

#### II. Adaptive Immunity

11:45 – 12:30 Ursula Dietrich: B cells, the major players in humoral immunity

12:30 - 13:15 *Lunch Break*

13:15 – 14:15 Sebastian Newrzela: T lymphocytes: Development of diversity and tolerance and keeping the norm

14:15 – 14:30 *short break*

#### III. Hyperactive Immune System (1): Tolerance and Allergy

10:00 – 10:45 Heinfried Radeke: Is allergy a consequence of a bored immune system?

15:30 – 16:00 Questionnaire /Test / Discussion

Sunday July 3<sup>rd</sup> Start: 10 am

**IV. Hyperactive Immune System (2): Chronic Inflammation, Autoimmunity and Transplantation**

10:00 – 10:45 Heinfried Radeke: Mechanisms of chronicity, organ specificity and the chances of biopharmaceuticals

**V. Hypoactive Immune System: Immune Deficiencies**

10:45 – 11:30 Heinfried Radeke: Hereditary immune deficiencies

11:30 – 11:45 *short break*

11:45 – 12:30 Ursula Dietrich: Acquired immune deficiencies

12:30 – 13:15 *Lunch break*

**VI Tumour, Immune Therapy and NK cells and Stem Cell Transplantation**

13:15 – 14:15 Alexander Steinle: *Therapeutic measures to kill a tumour:  
from immunotoxins to genetically engineered NK cells.??*

14:15 – 15:15 Ulrike Köhl: Immune reconstitution, GvL and GvHD after stem cell transplantation

15:15 – 16:00 Questionnaire / Test / Discussion