

## Crash Course: Basics in Molecular and Clinical Immunology

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

February 27. – 28. 2010

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

Organised by Heinfried H. Radeke und Ursula Dietrich

**Saturday, February 27**

**Start: 10:00**

### 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 Sebast. 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 February 22**

**Start: 10:00**

**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