

## **Seminar “Theoretical Models in Immunology“**

### **Part A: Molecular level**

1. Pattern recognition in the innate immune system (25.4., Madeleine Kittner)
2. Antimicrobial peptides (30.4., Carola von Deuster)
3. Antibody binding and design (7.5., Lothar Reich)
4. Modeling the immune repertoire (21.5., Veronika Bierbaum)

### **Part B: (Sub)cellular level**

5. Pattern formation during immune cell adhesion (2.6., Tetsuya Yamamoto)
6. T cell activation (11.6., Janina Beeg)
7. Cellular signaling networks (13.6., Aliaksei Krukau)

### **Part C: Supracellular level**

8. Modelling viral and immune system dynamics (18.6., Heinrich Kroboth)
9. Cytokine networks (20.6., Neha Awasthi)
10. Idiotypic networks (9.7., Jörg Menche)