# Winter semester 2015 / 16

## Cellular and Molecular Immunology

8th Edition by AK Abbas, AH Lichtman and S Pillai

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<th>Chapters 2 + 3: Cells and Tissues of the Immune System + Leukocyte Migration into Tissues</th>
<th>October 22nd, 2015</th>
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<td>Student Speaker:</td>
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<td>Project Leader Chair: Andreas Beilhack</td>
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<tr>
<td>Cells and Tissues of the Immune System (p 13 – 33)</td>
<td>Julia Wohlfahrt</td>
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<td>Leukocyte Migration into Tissues (p 35 – 50)</td>
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<td>Student Speaker:</td>
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<td>Project Leader Chair: Manfred Lutz</td>
<td>Hörsaal, Institute for Virology and Immunobiology</td>
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<td>Overview of Innate Immune Responses - Recognition of Microbes and Damaged Self by the Innate Immune System - Cell-associated Pattern Recognition Receptors and Sensors of Innate Immunity - Cellular Components of the Innate Immune System (p 51 - 69)</td>
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<td>Antibodies and Antigens (p 88 – 105)</td>
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<td>Project Leader Chair: Thomas Herrmann</td>
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<td>Anna Ruckdeschel</td>
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<td>Project Leader Chair: Edgar Serfling</td>
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<td>Felipe Riaño</td>
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<td>Natarajaswamy Kalleda</td>
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<td>Differentiation and Functions of CD4+ Effector T Cells (p 213 – 228)</td>
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<td>Hardikkumar Jetani</td>
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<td>Effector Mechanisms of Humoral Immunity (p 265 – 287)</td>
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### Chapter 14: Specialized Immunity at Epithelial barriers and in Immune Privileged Tissues  
**December 17th, 2015**

**Project Leader Chair:** Christine Krempl

- General Features of Immunity at Epithelial Barriers - Immunity in the Gastrointestinal System (p 289 – 302)  
  **Julia Lange**
- Immunity in other Mucosal Tissues - The Cutaneous Immune System - Immune Privileged Tissues (p 304 – 310)  
  **Lena Collenburg**

### Chapter 15: Immunologic Tolerance and Autoimmunity  
**January 7th, 2016**

**Project Leader Chair:** Niklas Beyersdorf

- Overview of Immunologic Tolerance - T Lymphocyte Tolerance - B Lymphocyte Tolerance (p 315 – 327)  
  **Hannes Hofmann**
- Tolerance Induced by Foreign Protein Antigens – Mechanisms of Autoimmunity (p 329 – 342)  
  **Julia Wohlfahrt**

### Chapter 16: Immunity to Microbes  
**January 14th, 2016**

**Project Leader Chair:** Jurgen Schneider-Schaulies

- Overview of Immune Responses to Microbes - Immunity to Extracellular Bacteria -Immunity to Intracellular bacteria and Immunity to Fungi (p 339 – 347)  
  **Anna Uri**
- Immunity to Viruses - Immunity to Parasites and Strategies for Vaccine Development ( p 348 – 356)  
  **Vishakha Tiwarekar**

### Chapter 18 + 19: Immunity to Tumors + Hipersensitivity Disorders  
**January 21th, 2016**

**Project Leader Chair:** Michael Hudecek

- Immunity to Tumors  
  **Anna Ruckdeschel**
- Hipersensitivity Disorders  
  **Diyaa Ashour**
### Chapter 17: Transplantation Immunology  
**January 28th, 2016**  
**Student Speaker:**  
**Project Leader Chair:** Stephan Mielke  

- General Principles of Transplantation Immunology – Adaptive Immune Responses to Allografts –  
  Patterns and Mechanisms of Allograft Rejection (p 359 – 370)  
  **Lucas Freund**  
- Prevention and Treatment of Allograft Rejection – Xenogeneic Transplantation – Blood Transfusion  
  and the ABO and Rh Blood Group Antigens – Hematopoietic Stem Cell Transplantation (p 371 – 380)  
  **Damiano Rovituso**

### Chapter 20: Allergy  
**February 4th, 2016**  
**Student Speaker:**  
**Project Leader Chair:** Thomas Hünig  

- Overview of IgE Dependent Allergic Reactions – Production of IgE – Role of Th2 Cells, Mast Cells,  
  Basophils, and Eosinophils in Allergic Reactions (p 417 – 427)  
  **Felipe Riaño**  
- IgE- and Mast Cell – dependent Reactions – Genetic Susceptibility to Allergic Disease – Allergic  
  Diseases in Humans: Pathogenesis and Therapy – The Protective Roles of IgE- and Mast Cell-  
  Mediated Immune Reactions (p 428 – 434)  
  **Katja Ottmüller**

### Chapter 21: Congenital and Acquired Immunodeficiencies  
**February 11th, 2016**  
**Student Speaker:**  
**Project Leader Chair:** Thomas Hünig  

- Overview of Immunodeficiency Diseases – Congenital Immunodeficiencies (p 437 – 450)  
  **Alina Fichtner**  
- Acquired (secondary) Immunodeficiencies – Human Immunodeficiency Virus and the Acquired  
  Immunodeficiency Syndrome (p 450 – 460)  
  **Anika König**

**Test: 18th February 2016 at 3:00 pm**