Immunology Tutorial – Book Club  
CTS/KSL 102635

Dates: As a rule, start in spring and/or fall, according to sufficient interest
Time/Duration: Mondays, 17:30-19:00 h, once a month for one year (except July/August)
Organizers/Tutors: GCB/various senior scientists (see table)
Venue: Uni Mittelstrasse, Mittelstrasse 43, room 272 (2nd floor), 3012 Bern

Textbook:
(ISBN: 978-0-323-47978-3 [or, if not available: 8th Edition]. You should have your own copy.

Course Description:
The 21 chapters of the book will be discussed in 10 tutorial sessions—see table(s) below. All  
participants are expected to read the chapters being discussed prior to the monthly meetings,  
in order to come well prepared to each session, and be able to act as discussion leader any time. The tutors will submit a number of questions, for which all participants must prepare the answers in advance. The tutorial is held in English and conducted by several senior scientists.

Structure of each session:
1. Discussion leaders: all participants must be prepared to act as discussion leaders any time,  
and possibly several times. Participants can volunteer for this task, or will be selected by the tutor, at the start of each session—one discussion leader per chapter.
2. The task of the discussion leader is to give a 10-20-min summary of the most important topics of the chapter at the start of the session.
3. «What did you not understand?»—All participants should prepare questions to clarify facts/topics which are not fully understood.
4. Translate knowledge from textbook to daily situations: All participants are expected to prepare answers to the tutor’s questions received in advance. Tutors will also make sure that knowledge of previous chapters has been integrated.

The tutor’s role is to act as a resource person, should one be needed, and not as a regular «instructor». He or she may also intervene if the discussion «goes astray».—Alternatively, the tutor might also present a paper or a problem related to the textbook chapters.

(continued on p. 2)
In order to qualify for the 3.0 ECTS, participants need to attend at least 8 sessions. – NOTE: If you have to miss out a session, you are requested to inform the organizers (alexandra.depeyer@gcb.unibe.ch) in advance, i.e. whenever possible, one week ahead of the session date.

Limitation: 6-12 students
Credits: 3.0 ECTS

Registration & Organization: By e-mail to info@gcb.unibe.ch, indicating your current study program (e.g. PhD student of the GCB) and your matriculation number. Registration on the CTS/KSL platform only required for the exam (see below).

Final examination:
• The oral, c. 45 min. examination will take place one to two months after the last session of the tutorial and will be conducted by two examiners, usually selected from the team of tutors.
• Candidates will need to register on the CTS/KSL platform for the examination, and in due time, will be informed about the registration deadline by e-mail.
• Examination dates will be organized individually and are subject to the availability of the examiners.
• Candidates are expected to be available for the suggested examination date. Temporary professional absences during the prospective examination period have to be communicated to the organizer in advance.

Rules for Withdrawal from Examinations:
• The successful completion of all courses and examinations listed as «mandatory requirements» in the Doctoral Agreement is an indispensable requirement to continue with the PhD program of the GCB. A failed mandatory examination may be repeated once. If failed twice, the PhD program cannot be continued (see «Promotionsreglement», Art. 9² and Art. 19¹).
• Withdrawal from a scheduled examination later than 14 days before the examination date is only accepted if caused by important reasons, such as severe health problems of the candidate or other exceptional circumstances such as bereavement in the close family. Withdrawals due to health problems must be supported by a medical certificate.
• In cases of insufficient or missing justification for absence at an examination, the examination will count as failed.
### Chapters

- **1:** Properties and Overview of Immune Responses
- **2:** Cells and Tissues of the Immune System
- **3:** Leukocyte Circulation and Migration into Tissues
- **4:** Innate Immunity
- **5:** Antibodies and Antigens
- **6:** Antigen Presentation to T Lymphocytes and the Functions of MHC Molecules
- **7:** Immune Receptors and Signal Transduction
- **8:** Lymphocyte Development and Antigen Receptor Gene Rearrangement
- **9:** Activation of T Lymphocytes
- **10:** Differentiation and Functions of CD4+ Effector T Cells
- **11:** Differentiation and Functions of CD8+ Effector T Cells
- **12:** B Cell Activation and Antibody Production
- **13:** Effector Mechanisms of Humoral Immunity
- **14:** Specialized Immunity at Epithelial Barriers and in Immune Privileged Tissues
- **15:** Immunologic Tolerance and Autoimmunity
- **16:** Immunity to Microbes
- **17:** Transplantation Immunology
- **18:** Immunity to Tumors
- **19:** Hypersensitivity Disorders
- **20:** Allergy
- **21:** Congenital and Acquired Immunodeficiencies

### Important Notes

The oral, c. 45 min. exams are expected to take place around 1-2 months after the last session (dates will be arranged individually).