Committee on Immunology

Chair
• Alexander Chervonsky

Professors
• Erin Adams, Biochemistry and Molecular Biology
• Maria Luisa Alegre, Medicine
• John Alverdy, Surgery
• Albert Bendelac, Pathology
• Eugene Chang, Medicine
• Alexander Chervonsky, Pathology
• Anita Chong, Surgery
• Marcus Clark, Medicine
• Aaron Dinner, Chemistry
• Michaela Gack, Microbiology
• Thomas Gajewski, Pathology and Medicine
• Yoav Gilad, Human Genetics
• Tatyana Golovkina, Microbiology
• Chuan He, Chemistry
• Jeffrey Hubbell, IME
• Bana Jabri, Medicine
• Rima McLeod, Surgery
• Cathryn Nagler, Pathology
• Anthony Reder, Neurology
• Raymond Roos, Neurology
• Olaf Schneewind, Microbiology
• Hans Schreiber, Pathology
• Melody Swartz, IME

Associate Professors
• Luis Barreiro, Medicine
• Fotini Gounari, Medicine
• Barbara Kee, Pathology
• Glenn Randall, Microbiology
• Peter Savage, Pathology
• Anne I. Sperling, Medicine
• Patrick Wilson, Medicine

Assistant Professors
• Nicolas Chevrier, IME
• A. Murat Eren, Medicine
• Daria Esterhazy, Pathology
• Jill de Jong, Pediatrics
• Jun Huang, IME
• Seungmin Hwang, Pathology
• Justin Kline, Medicine
• Andrew Koh, Pathology

Emerita Professor
• Ursula Storb, Molecular Genetics and Cell Biology

The Committee on Immunology offers a graduate program of study leading to the Doctor of Philosophy degree in Immunology. The committee is dedicated to the open exchange of ideas among scholars of all fields, a commitment enhanced by an organizational structure that completely integrates the basic biological sciences
with the clinical sciences. This multidisciplinary and integrated approach corresponds well with the reality of the new biology, where molecular and structural techniques are applied widely and with great success to clinical problems.

The Committee on Immunology is a member of the Biomedical Sciences Cluster, which also includes graduate programs from the Committee on Cancer Biology, Committee on Microbiology, and the Committee on Molecular Metabolism and Nutrition. The four academic units share several common courses, a seminar series and additional common events for students and faculty within the cluster. The goal of the cluster system is to encourage interdisciplinary interactions among both trainees and faculty, and to allow students flexibility in designing their particular course of study.

In addition to formal course work, the Committee on Immunology sponsors a weekly seminar series, an annual retreat where students and faculty present their research, and several focused group meetings.

ADMISSION

Prospective students interested in obtaining the Ph.D. in Immunology should submit an application to the Biological Sciences Division by December 1st of each year; indicate their cluster of interest as Biomedical Sciences and select Immunology as their proposed degree program.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Ph.D. requirements include:

- Completion of 9 course credits consisting of basic science, immunology and elective courses.
- A preliminary examination.
- A dissertation based on original research.
- A final thesis examination.

COMMITTEE ON IMMUNOLOGY COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMMU 30010</td>
<td>Immunopathology</td>
<td>100</td>
</tr>
<tr>
<td>IMMU 30266</td>
<td>Molecular Immunology</td>
<td>100</td>
</tr>
<tr>
<td>IMMU 30800</td>
<td>Readings: Immunobiology</td>
<td>100</td>
</tr>
<tr>
<td>IMMU 30810</td>
<td>Directed Readings in Cancer Immunology</td>
<td>75</td>
</tr>
<tr>
<td>IMMU 31000</td>
<td>BMSC All Stars</td>
<td>50</td>
</tr>
<tr>
<td>IMMU 31100</td>
<td>Ethics in Scientific Research</td>
<td>50</td>
</tr>
<tr>
<td>IMMU 31200</td>
<td>Host Pathogen Interactions</td>
<td>100</td>
</tr>
<tr>
<td>IMMU 31500</td>
<td>Advanced Immunology I</td>
<td>100</td>
</tr>
<tr>
<td>IMMU 32000</td>
<td>Advanced Immunology II</td>
<td>100</td>
</tr>
<tr>
<td>IMMU 39000</td>
<td>Intro Exprmntl Immunology</td>
<td>100</td>
</tr>
<tr>
<td>IMMU 40100</td>
<td>Research: Immunology</td>
<td>300</td>
</tr>
<tr>
<td>IMMU 40200</td>
<td>Experimental Immunology</td>
<td>50</td>
</tr>
<tr>
<td>IMMU 47300</td>
<td>Genomics and Systems Biology</td>
<td>100</td>
</tr>
<tr>
<td>IMMU 70000</td>
<td>Advanced Study: Immunology</td>
<td>300</td>
</tr>
</tbody>
</table>