Immunoology Theme

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Theme Information

The Immunology Graduate Theme is a part of the UAB Graduate Biomedical Sciences Program (https://www.uab.edu/gbs/home). We are an interdisciplinary program emphasizing the study of multiple aspects of the immune system, from basic molecular mechanisms to whole animal studies and human translational research. The remarkable breadth of our program can be seen in the primary departments of the almost fifty theme faculty members. Faculty from the Departments of Microbiology (https://www.uab.edu/medicine/microbiology), Cell Biology (https://www.uab.edu/medicine/cdbi), Biochemistry and Molecular Genetics (https://www.uab.edu/medicine/biochem), Genetics (https://www.uab.edu/medicine/genetics), Biology (https://www.uab.edu/cas/biology), Pathology (https://www.uab.edu/medicine/pathology), Medicine (https://www.uab.edu/medicine/dom), Pediatrics (https://www.uab.edu/medicine/peds), Environmental Health Sciences (https://www.soph.uab.edu/ehs), Epidemiology (https://www.soph.uab.edu/index.php?q=epi), Surgery (https://www.uab.edu/medicine/surgery), Ophthalmology (https://www.uab.edu/medicine/ophthalmology), Dermatology (https://www.uab.edu/medicine/dermatology), and Dentistry (https://www.uab.edu/dentistry/home) are involved in internationally recognized research and in the training of PhD-level graduate students and postdoctoral fellows. Currently, forty-five students are in training in the laboratories of our immunology faculty. Primary areas of research include: Allergy, Autoimmunity, Cancer Immunology, Clinical/Translational, Developmental Immunology, Host Defense, Immunodeficiency, Immunogenetics, Inflammation, Mucosal Immunology, Neuroimmunology, Structural Immunology, and Transplantation Immunology. Students obtaining a PhD in the Immunology Graduate Theme will be well-versed in modern immunology and have the option to pursue diverse career pathways.

Admissions

Prospective students should visit the GBS Admissions page (https://www.uab.edu/gbs/home/admissions) for information on admissions requirements, application deadlines, and how to apply.

Curriculum

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Rotations</td>
<td>3</td>
</tr>
<tr>
<td>GBS 795</td>
<td>Lab Rotation 1</td>
</tr>
<tr>
<td>GBS 796</td>
<td>Lab Rotation 2</td>
</tr>
<tr>
<td>GBS 797</td>
<td>Lab Rotation 3</td>
</tr>
<tr>
<td>Core Courses</td>
<td>6</td>
</tr>
<tr>
<td>GBS 707</td>
<td>Basic Biochemistry and Metabolism</td>
</tr>
</tbody>
</table>

Module Courses 8
- GBS 708 Basic Genetics and Molecular Biology
- GBS 709 Basic Biological Organization

Module Courses 8
- GBS 740A Introduction to Immunology Part 1
- GBS 740B Introduction to Immunology Part 2
- GBS 741 Lymphocyte Biology
- GBS 744 Mucosal Immunology

Theme Required Courses 8
- GBS 742 GBS Student Theme Meeting Course 1

GBS Required Courses 6
- GBS 731 Intro to Biostats
- GRD 717 Principles of Scientific Integrity

Grant-Writing/Scientific-Writing 2

Three Advanced Courses 9

Journal Clubs 4

Research Hours 24

Total Hours 74

1 Required fall and spring semester, 2nd year until graduation.
2 Course selected from the following: GBS 716, GBS 725, GBS 768, GBS 726.
3 Courses selected from the following: GBS 700, GBS 702, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 732, GBS 739, GBS 745, GBS 749, GBS 754, GBS 757, GBS 765, GBS 769, GBS 779, GBS 705, GBS 706, GBS 707, GBS 708, GBS 709, GBS 710, GBS 712, GBS 715, GBS 717, GBS 721, GBS 724, GBS 725, GBS 728, GBS 730, GBS 732, GBS 734, GBS 735, GBS 740, GBS 741 or approved course.
4 Required each fall and spring semester, 2nd year until graduation. Courses selected from the following: GBS 728, GBS 736, GBS 746J, GBS 747J, GBS 756, GBS 796, GBS 776, GBS 786J, GBS 793, GBS 700, GBS 720.
5 24 hours in GBS 799, or 12 hours in GBS 798 and 12 hours in GBS 799.

Financial Support

All students accepted into GBS programs receive a competitive annual stipend and fully paid tuition and fees. Single coverage health insurance is also provided at no cost to the student through VIVA Health UAB. The annual stipend for the current academic year is $29,000. The total annual award value, including stipend, tuition, fees and health insurance is $37,500. Stipends are reviewed and updated regularly.

Theme Faculty

The faculty listing for the Immunology theme is located here (http://apps.medicine.uab.edu/facultydirectory/FacultyListingType.asp?FacultyTypeID=IM).