**Immunology**

**Theme Director**  
Louis B. Justement, PhD  
Email lbjust@uab.edu

**Theme Co-Director**  
Laurie Harrington, PhD  
Email lharring@uab.edu

**Theme Co-Director**  
Christopher Klug, PhD  
Email chrisk@uab.edu

**Theme Information**

Immunology is one of eight interdisciplinary PhD themes within Graduate Biomedical Sciences (GBS). Students select a theme upon application but have access to faculty and courses from across GBS, allowing for flexibility in both research and academics.

From the outset, UAB has been recognized as a leading academic research institution in the country and one of the world’s premier centers for immunological research. Over 90 UAB faculty are actively engaged in immunological research, including:

- Studies to understand the basic function of the immune system and the underlying pathophysiological processes that contribute to a range of immune-mediated diseases,
- Translational studies that are focused on the development of vaccines and immunotherapeutics, and
- Clinical studies that test novel therapies designed to mitigate immune-mediated diseases.

Immunology plays such an important role in the ongoing research endeavor at UAB that Inflammation, Infection, and Immunity (I3) was recently named as one of the five pillars of emphasis in the strategic plan for the UAB School of Medicine.

**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.

**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. Please reference the GBS Financial Support page (https://www.uab.edu/gbs/home/admissions/financial-support/) for further information.

**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>7</td>
</tr>
<tr>
<td>GBS 701</td>
<td>Core Concepts in Research: Critical Thinking &amp; Error Analysis</td>
</tr>
<tr>
<td>GBS 707</td>
<td>Basic Biochemistry and Metabolism</td>
</tr>
</tbody>
</table>

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

**Theme Required Courses**  
GBS 740A Introduction to Immunology Part 1  
GBS 740B Introduction to Immunology Part 2  
GBS 741 Lymphocyte Biology  
GBS 744 Mucosal Immunology

**Research**  
6

**Theme Faculty**

The faculty listing for the Immunology theme is located here (https://www.uab.edu/gbs/home/directories/immunology-faculty/).

For further information, please reference the GBS website (https://www.uab.edu/gbs/home/).