The Graduate Program in Immunobiology consisted of 13 PhD students in the 2016/2017 academic year. There are currently 2-1st year students, 1-2nd year student, 2-3rd year students, 3-4th year students, 3-5th year students, and 1-6th year students. In the 2016/2017 academic year, 2 students defended and were awarded their PhDs.

Mentors and students are asked to complete annual student evaluations and self-evaluations, respectively. The evaluations represent an overall measure of the program and progress towards learning goals from two perspectives. The data to the right represent an average of scores from 13 total students and 13 total mentor evaluations. The scores are based on a 4-point scale where 4=Exceeds expectations, 3=Meets Expectations, 2=Needs Improvement and 1=Unsatisfactory. The error bars represent the deviation in the average ranking. From the Mentor Assessment, it is clear that the majority of students are “Meeting Expectations.” Very few students were ranked in the “Needs improvement category. Students were ranked most highly on Research Integrity and Ethics. Since no students were ranked “Unsatisfactory” with regards to any of the five learning objectives, all GPIMB students are at a place of reasonable proficiency with a positive trajectory expected. From the student self-assessment, written communication is the area students identify as needing the most improvement, although this response is not statistically different from that of oral communication, design and execution or scientific knowledge and concepts. This is appropriate for the majority of students in the program whom are at least a year from graduation. Mentor evaluation and student self-evaluation results are similar to those from 2015/2016.
The following section represents assessment data obtained through Student Milestone Assessments (Comprehensive Exam, Committee Meetings and Dissertation Defenses)

Note: In all cases the horizontal axis indicates the number of students ranked in each category.

**Learning Objective 1: Apply Written Communication**
This objective has been assessed in comprehensive exams and in dissertation defenses (in addition to the Annual Evaluations discussed above). The compiled data is represented below. The majority of students are meeting or exceeding expectations. This is similar to the 2015/2016 assessment.

![Apply Written Communication Chart]

**Learning Objective 2: Apply Oral Communication**
This objective has been assessed in committee meetings and in dissertation defenses (in addition to the Annual Evaluations discussed above). The compiled data is represented below. The majority of students are meeting or exceeding expectations. This is an area where some focus will be applied in a professional workshop to be held in August 2017.

![Apply Oral Communication Chart]

- Please rate the student's ability to express in lay terms the potential impact of his/her work on society.
- Please rate the student's ability to communicate his/her research (importance, approaches taken, summary and interpretation of results) effectively through oral presentation.
**Learning Objective 3: Design and Execute Scientific Research**
This objective has been assessed in comprehensive exams, committee meetings, and dissertation defenses (in addition to the Annual Evaluations discussed above). The compiled data is represented below.

![Design and Execute Scientific Research Chart]

**Learning Objective 4: Demonstrate Scientific Knowledge and Concepts**
This objective has been assessed by comprehensive exam, committee meetings and in dissertation defenses (in addition to the Annual Evaluations discussed above). The compiled data is represented below. The majority of students are meeting or exceeding expectations.

![Scientific Knowledge and Concepts in Biological Research Chart]
Learning Objective 5: Demonstrate Research Integrity and Ethics

This objective has been assessed in committee meetings and in dissertation defenses (in addition to the Annual Evaluations discussed above). The compiled data is represented below. All students are meeting or exceeding expectations.

Please rate the student’s ability to demonstrate adequate knowledge of ethical principles used in research.

Please rate the student’s ability to use multiple research approaches to collect scientific data related to his/her research area, and can interpret, analyze and critique his/her data.
The following section represents assessment data obtained through Annual Seminar Assessment. Each Learning Objective evaluated is broken down into a number of specific points.

Learning Objective 2: Apply Oral Communication
The majority of the students are ranked as meeting expectations in all categories with a few students exceeding expectations or needing improvement. No students were ranked as unsatisfactory.
Learning Objective 3: Design and Execute Scientific Research
The majority of students are meeting expectations with a few students exceeding expectations or needing improvement. No students were ranked as unsatisfactory.