

Keck School of Medicine of USC

PIBBS (Gateway to Ph.D. - no degree) Learning Objectives

Upon completion of this program, students will be able to:

1. Explain foundational concepts in molecular biology, cell biology, genetics, protein chemistry, biostatistics, bioinformatics, and scientific writing.
2. Integrate new concepts with prior knowledge of the subjects and extend learning in each of these areas.
3. Analyze and evaluate application of integrated knowledge of the subjects in published research by critically reading primary research articles.
4. Communicate published research findings or their own in formal oral presentations.
5. Postulate a research question(s) or hypothesis, research the literature, and develop a written proposal.
6. Critique a written research proposal.
7. After conducting short research projects in at least three laboratories, identify a laboratory in which they will perform research towards a Ph.D. dissertation