Development, Stem Cell and Regenerative Medicine (Ph.D.) Learning Objectives

After completion of this program, the candidate will be able to do the following:

1. Understand the history and practice of developmental and stem cell biology
2. Become skilled in education of trainees in developmental and stem cell biology
3. Understand how the genomes of animals are translated into complex morphological forms
4. Understand how to apply and adapt this basic knowledge to the emerging field of regenerative medicine.
5. Able to apply multidisciplinary scientific approaches towards essential questions in regenerative Medicine.
6. Have the ability to design hypothesis driven scientific studies to address major problems in the field
7. Practice creative thinking in proposal development, experimental design and problem solving.
8. Develop skill in deductive logic and interpretation of scientific results.
9. Develop and practice skills in communication to a scientifically literate audience.
10. Write effective grant proposals and scientific publications to disseminate important knowledge to the field.