Cancer Biology and Genomics (Ph.D.) Learning Objectives

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

1. Understand the mechanisms of cancer development and progression
2. Describe the various approaches towards elucidating those mechanisms
3. Translate basic findings into diagnostics, treatments and potential cures
4. Understanding of the categorization of cancers, the basic biology of different types of cancer, and how different cancers represent different diseases and disease processes
5. Have the ability to design hypothesis driven scientific studies to address major problems in the field
6. Practice creative thinking in proposal development, experimental design and problem solving.
7. Develop skill in deductive logic and interpretation of scientific results.
8. Develop and practice skills in communication to a scientifically literate audience.
9. Write effective grant proposals and scientific publications to disseminate important knowledge to the field.