

Postdoctoral Curriculum

TGP-Specific Postdoctoral Curriculum and Training Requirements to Satisfy Core Competences:

One course offering in the following required competency areas including translational genomics and bioinformatics, translational cancer research, precision medicine approaches, and ethics needed for completion/graduation/semester (maximum of 4 classes over 2 years). In addition outside of the curriculum we require that fellows show the following 5th competency based on attendance:

- Attendance (monthly) at MDACC clinical grand rounds and relevant tumor boards (competency area).
- Exposure to industrial collaborations with academic faculty mentors on large scale genomic applications to cancer precision medicine (competency area) (led by Dr. Wistuba; semi-annually). Required Curriculum. Postdoctoral fellows will be required to complete one course/semester with a maximum of 4 courses/fellowship. Required courses to fill competency areas and requirements for competency in coursework are indicated as follows:

Elective Courses. Additional elective offerings through the GSBS may be selected by fellows and in consultation with mentorship committee. Electives are offered through the GSBS and include: (GS111101) Basic Molecular Human Genetics (1 credit hr.); (GS111111) Molecular and Functional Genomics (1 credit hr.); (GS111131) Cancer Genetic and Genomics (1 credit hr.); (GS04 1213) Mechanisms of Cancer Therapeutics; (GS011143); Introduction to Bioinformatics (3 credit hours); (GS011033) Introduction to Biostatistics for Clinical Trials (3 credit hours); (GS211014) Design and Management of Clinical Trials; (GS041103) Principles of Therapeutics.

Required Training for Postdoctoral Fellows. In addition to the required curricula to satisfy core competencies, additional training requirements for the TGP fellows will be in place to meet core competencies and to ensure development of proficiencies in critically reading and presenting scientific papers, grant writing, exposure to large scale collaborations, and leadership skills, and all necessary for the next generation of Big Data genome scientists. Following is a list of required training for postdoctoral fellows:

Core Competency Training. Core Competency 5 will be met by the following structured participation:

Institutional Grand Rounds (offered monthly; attendance required minimum of 6 grand rounds/year) is a weekly grand rounds that allows faculty and trainees the opportunity to hear about collaborative team science ongoing in the institution

Clinical Tumor Boards (offered monthly; attendance required minimum of 6/year).

Exposure to industrial collaborations (monthly attendance required to one of the alliances). Additional Training Requirements for Postdoctoral Fellows for Completion of Core Competencies:

TGP-Specific Journal Club (bi-monthly offering; one semester attendance required/fellowship period).

TGP Training Retreat (annually required).

NIH Grant Proposal (during last year of fellowship).

Presentation at one national meeting (prior to completion of the program) and submission of one first author paper for publication in top tier journal.

Attendance at Mentoring and Career Sessions (semi-annually).

Trainee mixers (quarterly).