

### **Curricular Features Specifically for the Predoctoral Rheumatology Training Pathway Aligned with BMS Immunology.**

Starting for the 2018-23 cycle, we plan to accept MD/PhD MSTP, and single PhD applicants. All such trainees will be in Basic-Translational Research, integrated with the UCSD/LJI BMS Immunology Program Student Training Track. MSTP curriculum starts with the first 2 years of preclinical medical school study taken with their classmates, and leading to the USMLE Part I training exam, but also with 3 lab rotations in that span. All MSTP students also take the 2 week Rheumatology preclinical block (SOMC 2032) in their second year of the MSTP curriculum. The MSTP third to fifth or sixth years are dedicated to their graduate program requirements for PhD work, with some students choosing clinical exposure by limited, periodic work in the UCSD Free Clinic. In this time span, MSTP trainees accepted in our T32 will get 24 months of funded support, with the primary faculty mentor asked to cover subsequent graduate school PhD time. All MSTP trainees in this T32, in MSTP years 3-5 or 3-6, will participate in the shared activities, including clinical Rheumatology observership. The highlight will be bench research aligned with the UCSD/LJI BMS Immunology program, and supervised by T32 Theme 1 or Theme 2 primary faculty mentors, tapping into the major new UCSD program strength. As such, all MSTP trainees will complete the **BMS Immunology Core Training Curriculum** in their first-third graduate school years, as follows:

#### **Graduate Immunology:**

- **Core curriculum:** "Molecules to Organisms" (BIOM 200A&B) provides a systematic approach to current Biomedical Research, using analysis of selected topics to focus on the process of research discovery and its critical evaluation. "Seminar in Biomedical Research" (BIOM 201) critical discussion of the presented findings and scientific approaches in a small group setting. BMS students statistical analysis of data (BIOM 285) and Ethics in Research (BIOM 219).
- Pathogens and Host Defense: Immunology
- Pathogens and Host Defense: Microbiology

#### **Elective Courses (to fulfill 15 unit BMS elective requirement):**

- Cellular Immunology;
- Graduate Animal Virology
- Graduate Developmental Biology
- Graduate Signal Transduction
- Bioinformatics 1-Biological Data Representation and Analysis
- Seminars in Molecular Pathology
- Journal Club in Molecular and Cellular Immunology.