Foundations of Biomedical Research 2021

Week 1: How did we get here: A brief history of biomedical science - Mike Lorenz

	Monday	Tueday	Wednesday	Thursday	Friday
Time	August 30	August 31	September 1	September 2	September 3
9:00 9:30	Heredity	Lecture: Molecular Biology from the double helix to CRISPR (Mike Lorenz)	Biostats Exercise: Introduction to Graphpad Prism (John Magnotti) Break	Lecture: Key concepts in Developmental and Cancer Biology (Swathi Arur)	Lecture: Key advances in immunology (Rick Wetsel)
		Break	Lecture:		Break
10:00 10:30	Fun and Games:	Breakout: Inroduction to Phylogeny	Neuroscience: Pioneers of Discovery (Jack Byrne)	Break Group Projects: Model Systems	Breakout: Phylogenetic Trees

Week 1 Learning Objectives

- To understand the history behind key advances in molecular biology, genetics, immunology, neurobiology, and developmental biology and the personalities and circumstances that led to these discoveries.
- To understand how phylogenetic relationships are determined and the strengths and limitations of phylogeny in cross-species comparisons of protein function.
- To explore online databases for model organisms as useful repositories of functional genetic information, expression analysis, Gene Ontology annotation, and links to primary literature.
- To initiate team-building with new colleagues through group activities, which will continue throughout the semester.