Establishing a Thriving Research Program
Spring 2025

Course Directors
Graeme Mason, PhD, Professor of Radiology and Biomedical Imaging and of Psychiatry
Rajita Sinha, PhD, Foundations Fund Professor of Psychiatry and Professor in the Child Study Center and of Neuroscience

Course Objectives:
The goal of the course is to provide participants with the practical skills necessary to become successful Physician-Scientists and Scientists in academia. Additionally, the course will be a great venue to network with other trainees who are in a similar career stage.

Textbook
None; Scientific, business and management articles and papers will be assigned. Within each module, relevant sections will address effective strategies in leading a research team, manage collaborations, and carry out team science.

Objectives
At the end of the course, attendees should understand
1) How to write and manage a Human Subjects research protocol with respect to Institutional Review Board (IRB) requirements.
2) How to write and manage an Animal research protocol with respect to Institutional Care and Use Committee (IACUC) requirements.
3) Effective strategies in leading a research team.
4) Funding strategies to sustain an academic research laboratory.
5) Financial management of an academic research laboratory.
6) Different types of NIH research grants and how to write them.
7) Optimal approaches to personnel recruitment, assessment, and supervision.
8) Principles of mentoring students and postdoctoral trainees.
9) Principles of time management.
10) Management of collaborations, with particular attention to interdisciplinary research and team science.
11) Rigor and Reproducibility in Experiment Design.
12) The importance of diversity in a research team
13) Developing data management and sharing plans
14) Faculty Appointments
15) Opportunities outside of academia
16) How to make effective poster presentations, 10-minute oral presentations, and 20-40 minute lectures.

Date	Room	Time	Presenters	Topic
		9:45-10:00	Rajita Sinha; Graeme Mason	Introduction
		10:00-11:00	Graeme Mason	General Principles of Grant Writing
		11:00-12:00	Jennifer Edelman	Reviewing and Writing NIH Grant Proposals
4/15/2025	BCMM 206/208	12:00-1:00	Jennifer Edelman; Rajita Sinha; Graeme	Discussion

			Mason	
		10:00-11:00	Robin de Graaf	Dissemination-Presentations
		11:00-12:00	Andres Martin	Just Do It! Writing, Submitting, Revising, and Yes: Getting Published
4/22/2025	BCMM 206/208	12:00-1:00	Robin de Graaf; Andres Martin	Discussion
		10:00-11:00	Douglas Rothman	Negotiating a Start up Plan
		11:00-12:00	Rajita Sinha, Graeme Mason	Management of Laboratory Resources, Finances, and Personnel
4/29/2025	Beaumont SHM L-221A	12:00-1:00	Douglas Rothman, Rajita Sinha, Graeme Mason	Discussion
		10:00-11:00	Aaron Kuan; Sarah Yip	Chalk Talks and Job Talks
		11:00-12:00	Jonathan Grauer; Samuel Ball	Introduction to Faculty Appointments
5/6/2025	SHM I-116	12:00- 1:00	Kuan, Yip, Grauer, Ball	Discussion
		10:00-11:00	Ralitza Gueorguiva	Grant Writing for Rigor and Reproducibility: a Statistician's Perspective
5/20/2025	BCMM 206/208	11:00-12:00		
		12:00-1:00	Ralitza Gueorguiva	Discussion
		10:00-11:00	Rajita Sinha	Your Research Identity, Reviews, Summaries, Abstracts and Dissemination
		11:00-12:00	Marina Picciotto	Lab Management: Supervision of Staff and Mentoring Students and Postdoctoral Trainee
5/27/2025	Beaumont SHM L-221A	12:00-1:00	Rajita Sinha; Marina Picciotto	Discussion
		10:00-11:00	Madelon Baranoski	Human Subjects Research Regulations
		11:00-12:00	Brandon Dorry	Navigating the Yale University IACUC and OARS
6/3/2025	BCMM 206/208	12:00-1:00	Madelon Baranoski, Brandon Dorry	Discussion
		10:00-11:00	Sahar Usmani-Brown; SungKwon Kim	Careers in Industry
		11:00-12:00	Darin Latimore	How Will You Create an Inclusive Environment? rs in Industry
6/10/2025	BCMM 206/208	12:00- 1:00	SungKwon Kim; Sahar Usmani-Brown; Darin Latimore	Discussion