Establishing a Thriving Research Program Summer 2023

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, andcarry 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 UseCommittee (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
			Graeme Mason and	
		9:45-10:00	Rajita Sinha	Introduction
			Jonathan Grauer;	Introduction to Faculty
		10:00-11:00	Samuel Ball	Appointments
7/25/2023	SHM I-116	11:00-12:00	Graeme Mason	General Principles of Grant Writing

		12:00-1:00	Graeme Mason	Discussion
		10:00-11:00	Ralitza Gueorguieva	Rigor and Reproducibility
				Writing a Data Management &
		11:00-12:00	Kaitlin Throgmorton	Sharing Plan
			Ralitza Gueorguieva;	
7/27/2023	TAC N203	12:00-1:00	Kaitlin Throgmorton	Discussion
		10:00-11:00	Fahmeed Hyder	Research Papers
		11:00-12:00	Jen Edelman	Reviewing Grant Proposals
8/1/2023	SHM I-116	12:00-1:00		Discussion
			Madelon Baranoski;	
			Monika Lau; Gina	
			Larsen; Linda	
		10:00-12:00	Coleman	Human Research Protocols
			Madelon Baranoski;	
			Monika Lau; Gina	
			Larsen; Linda	
8/3/2023	TAC N203	12:00- 1:00	Coleman	Discussion
				Management of Resources:
				strategic deployment of money,
				materials, staff, and time,
				negotiating a startup package
		10.00.11.00		including benefits like
		10:00-11:00	Douglas Rothman	maternity/paternity leave
				Review Articles
				What is the take home message of
				your findings? Writing brief
				summaries and abstracts; hands-on discussion with papers and talking
		11:00-12:00	Rajita Sinha	to the media
8/8/2023	SHM I-116	12:00-1:00	Rajita Sinha	Discussion
0/0/2023	3111011-110	12.00-1.00	Najita Siiiia	Industry Environment, expectations,
				recruitment, interviewing,
		10:00-11:00	Margaret Cartiera	negotiation
		20.00 22.00	iviai garee eartiera	Enhancement of Diversity: why and
		11:00-12:00	Darin Latimore	how
8/10/2023	TAC N203	12:00-1:00		Discussion
0, 20, 2020	171011200		Tracy Kloczynski;	
		10:00-11:00	Troy Hallman	Animal Research Protocols
		11:00-12:00	,	
			Tracy Kloczynski;	
8/15/2023	SHM I-116	12:00-1:00	Troy Hallman	Discussion
			,	Supervision of Staff and Mentoring
		10:00-11:00	Marina Picciotto	Students and Postdoctoral Trainees
				Short (10 minutes) and Full Length
		11:00-12:00	Robin de Graaf	(30-40 min) Research Presentations
8/17/2023	TAC N203	12:00- 1:00	Robin de Graaf	Discussion