

Molecules to Medicine

Molecules to Medicine (M2M) is a requirement for MS1 and MS2 students. Its objectives are to nurture scientific reasoning skills through critical analysis of journal articles and the underlying scientific method, emphasizing rigor and reproducibility; to inspire students by reviewing landmark breakthroughs in biomedical investigation; and to improve presentation ability. Scientific topics are selected by the rising MS2s each year.

Course Director: Tonya Webb, PhD

M2M 2026-2027 Syllabus

All sessions are required for all MS1 students; sessions optional for MS2 are noted with *

Date	Presentation	Faculty Mentor
8/20/2026	Course Introduction*	Tonya Webb, PhD
9/10/2026	Session 1A: Grant Writing 101	Tonya Webb, PhD
Topic 1: Antidepressant		Jose M. Lemme-Dumit, PhD
9/17/2026	Session 2A: Faculty Introduction	
10/1/2026	Session 2B: Methods Paper	
10/15/2026	Session 2C: Research Paper	
Topic 2: From RNA to Revolution: How Transcriptomics Changed Biomedical Science		Elana Fertig, PhD
11/12/2026	Session 3A: Faculty Introduction	
12/3/2026	Session 3B: Methods Paper	
12/10/2026	Session 3C: Research Paper	
12/17/2026	Mentor Selection and Career Development Choices*	Mary-Claire Roghmann, MD, MS
1/7/2027	Session 1B: Grand Discussion	Tonya Webb, PhD
Topic 3: Neuroimmune Interactions		Nevil Singh, PhD
1/14/2027	Session 4A: Faculty Introduction	
1/28/2027	Session 4B: Methods Paper	
2/4/2027	Session 4C: Research Paper	
2/25/2027	Session 1C: Grant Review Meeting	Tonya Webb, PhD
3/25/2027	Rigor and Reproducibility in Research*	Kaylin Adipietro, PhD
4/8/2027	Center for Innovative Biomedical Resources Introduction and Tour*	Nick Ambulous, PhD