

MS 610 Advanced Topics of Bioethics, Bioinformatics, and Molecular Biology Fall 2024 (MW 6-6:15 PM PT, PS130)

Date	Category	Seminar Title	Modality	Speaker	Affiliation	Notes/Readings
09/02/24	Bioethics	An Introduction to Bioethics and research ethics	Face	Chris Jungo	SDSU	
09/02/24	Bioethics	Philosophical underpinnings of medicine	Face	Chris Jungo	SDSU	
09/02/24	No class - Labor Day					
09/02/24	Bioethics	Responsibility in research, statistics and bioinformatics	Face	Alan Gelman	SDSU	
09/02/24	Bioethics	Navigating the NIH-IRB process	Zoom	Janette D. Conry-Greene	MSU	Class scheduled at San PT
09/11/24	Bioethics	Scientific integrity: Responsible conduct of research	Face	Richard Bernstein	SDSU	
09/11/24	Bioethics	Peer review, incentives, deviance and vigilance	Face	Tanya Martindale	SDSU	
09/18/24	Bioethics	Spinal cord research	Face	Erica Beckers	SDSU	
09/25/24	Bioethics	Advances in Plant Biotechnology	Zoom	Markusden Ramerem	Texas A&M	Class scheduled at San PT
09/25/24	Bioethics	Genetics and ethics in a biological data analysis	Face	Chris Jungo	UCSD	
09/30/24	Bioethics	Artificial intelligence in research	Zoom	Janette Marie Smith	UCSD	
09/30/24	Bioethics	Agentic AI and ethics in biological data analysis	Zoom	Matthew Bialik	UCSD	
10/07/24	Bioethics	From molecule through to technology transfer	Face	Thomas Frenzel	SDSU	
10/07/24	Bioethics	Learning bioinformatics and machine tools for the characterization	Zoom	Manuel Kuster	UCSD	
10/14/24	Bioinformatics/Advanced Lecturing	Task to find new gene functions in the genome	Face	Chris Jungo	SDSU	
10/14/24	Bioinformatics/Advanced Lecturing	Microbial life and bioprocessing	Face	Chris Jungo	SDSU	
10/21/24	Bioinformatics/Advanced Lecturing	Navigating the Microbiome World: MIND Over Microbes	Zoom	Adrian J. Kettle	Case Western Reserve University	Class scheduled at San PT
10/21/24	No class					
10/28/24	Bioethics	Artificial intelligence: Tools, Ethics & Risks	Zoom	Janette de Rose-Ducot	University of California Riverside	
10/28/24	Bioinformatics/Advanced Lecturing	Optimizing translation and post-translational response with machine	Zoom	Chris Tin	Arizona State University	
10/28/24	No class - Veterans Day					
11/04/24	Bioinformatics/Advanced Lecturing	Functional Genomics for Synthetic Biology in Biotech	Zoom	Joan Urbán	UMAB - DGG	
11/04/24	No class - Veterans Day					
11/11/24	Bioinformatics/Advanced Lecturing	Adaptive Laboratory Evolution (ALE) as a technology to solve problems	Face	Adam Field	UCSD	
11/11/24	Bioinformatics/Advanced Lecturing	Advances in Plant Genomics	Zoom	Marisa Sigg Ray-Kumar	Texas A&M	Class scheduled at San PT
11/18/24	Bioinformatics/Advanced Lecturing	Designing the functions of native microbes in the phytoplankton	Zoom	Esti Sorenson	Swedish University	Class scheduled at San PT
11/18/24	No class - Thanksgiving					
11/25/24	No class - Thanksgiving					
11/25/24	Bioethics	Machine and social media: from idea to implementation	Zoom	Sam Wang	University of Illinois	Class scheduled at San PT
12/02/24	Projects	Presentations	Face	Chris Jungo	SDSU	
12/02/24	Projects	Presentations	Face	Chris Jungo	SDSU	
12/09/24	Projects	Presentations	Face	Chris Jungo	SDSU	

Date	Seminar Title	Modality
08/26/2024	An introduction to bioethics and research ethics	Person
08/28/2024	Philosophical underpinnings of bioethics	Person
09/02/2024	No class--Labor Day	-----
09/04/2024	Reproducibility in research: statistics and bioinformatics	Person
09/09/2024	Navigating the NASA IRB process	Zoom
09/11/2024	Scientific Integrity: Responsible conduct of research	Person
09/16/2024	Patenting molecules, devices and organisms	Person
09/18/2024	Social Justice Research	Person
09/23/2024	Advances in Plant Biotechnology	Zoom
09/25/2024	Statistics and ethics in biological data analysis	Person
09/30/2024	Animla models in research	Zoom
10/02/2024	Epigenetics meets Bioinformatics	Zoom
10/07/2024	From molecular biologist to technology transfer	Person
10/09/2024	Leveraging bioinformatics and modeling tools for the characterization of marine microbes	Zoom
10/14/2024	Bioinformatics tools and bioprocessing	Person
10/16/2024	Tools to find new gene functions in the genome	Person
10/21/2024	Immunometabolism	Zoom
10/23/2024	Navigating the Microbiome World: MIND Over Microbes	Zoom
10/28/2024	No class	-----
10/30/2024	Artificial Intelligence: Tools, Ethics & Risks	Zoom
11/04/2024	Open-source microbiome and multi-omic data science with scikit-bio	Zoom
11/06/2024	Functional Genomics for Synthetic Biology in Bacteria	Zoom
11/11/2024	No class-Veterans Day	-----
11/13/2024	Adaptive Laboratory Evolution (ALE) as a technology to solve problems in applied microbiology	Person
11/18/2024	Advances in Plant Genomics	Zoom
11/20/2024	Deciphering the functions of marine microbes in the phycosphere	Zoom
11/25/2024	No class-Thanksgiving	-----
11/27/2024	No class-Thanksgiving	-----
12/02/2024	Microbes and social equity: from idea to implementation	Zoom
12/04/2024	Presentations	Person
12/09/2024	Presentations	Person
12/11/2024	Presentations	Person

