MEDICAL RESEARCH SCHOLARS PROGRAM

https://medicine.yale.edu/bbs/training/nih-programs/mrsp

Directors

Michael Caplan George Lister Megan C. King

MEDICAL RESEARCH SCHOLARS PROGRAM GRADUATE CERTIFICATE

The Medical Research Scholars Program (MRSP) bridges barriers between traditional predoctoral and medical training by providing students with both medically oriented coursework and a mentored clinical experience. The coursework provides a grounding in biomedicine, and the clinical experience enables students to interact with patients to learn firsthand about disease symptoms, treatment options, and the limitations of current therapies. This combination of medical knowledge and face-to-face interaction with patients and their doctors provides a new perspective and enhances the rigorous training students receive in the Yale Biological and Biomedical Sciences (BBS) Program.

Program Eligibility

Incoming BBS students are eligible to apply, and five to seven students are admitted per year. Students are invited to apply after accepting Yale's offer of admission to the Graduate School of Arts and Sciences. A separate MRSP application is required, and the MRSP core leadership team will review applications and select students for the program. If admitted, students remain within the BBS Program but participate in the additional MRSP curriculum.

The Curriculum

The MRSP curriculum consists of four full-term courses that focus first on normal human physiology and organ-based cell biology, followed by human pathobiology and then an introduction to drug discovery, validation and clinical trials. Students also take an intensive summer course in biostatistics. Some of these MRSP courses are open to all BBS students at the discretion of the course directors. The centerpiece of the MRSP is an additional two-year Mentored Clinical Experience course during years two and three of the program. This course integrates basic and clinical research while additionally granting students access to patients and patient settings. Exposure to patients and to the practice of medicine will enable graduates to work more confidently at the interface of research and medicine and facilitate future collaborations with clinical researchers. The Mentored Clinical Experience is open only to students formally enrolled as Medical Research Scholars and to students in the Translational Biomedicine Ph.D. program.

Year One

Fall C&MP 550

Physiological Systems

CBIO 604Physiologic Function and Cellular Structure of Organ Systems1SummerIntroduction to Biostatistics in Clinical Investigation1IMED 645Introduction to Biostatistics in Clinical Investigation1Year TwoIntroduction to Biostatistics in Clinical Investigation1FallIntroduction Molecular Mechanisms of Disease 11PATH 690Molecular Mechanisms of Disease 11SpringIntroduction Investigation1Kears Two and ThreeIntroduction Investigation1C&MP 610Medical Research Scholars Program: Mentored Clinical Experience1	Spring		
IMED 645Introduction to Biostatistics in Clinical Investigation1Year Two1Fall1PATH 690Molecular Mechanisms of Disease 11Spring1B&BS 680Topics in Human Investigation1Years Two and Three1C&MP 610Medical Research Scholars Program: Mentored Clinical1	CBIO 604	, 6	1
Year Two Fall PATH 690 Molecular Mechanisms of Disease ¹ Spring B&BS 680 Topics in Human Investigation Years Two and Three C&MP 610 Medical Research Scholars Program: Mentored Clinical	Summer		
FallPATH 690Molecular Mechanisms of Disease 11Spring1B&BS 680Topics in Human Investigation1Years Two and ThreeC&MP 610Medical Research Scholars Program: Mentored Clinical1	IMED 645	Introduction to Biostatistics in Clinical Investigation	1
PATH 690 Molecular Mechanisms of Disease 1 1 Spring 1 B&BS 680 Topics in Human Investigation 1 Years Two and Three 1 C&MP 610 Medical Research Scholars Program: Mentored Clinical 1	Year Two		
Spring 1 B&BS 680 Topics in Human Investigation 1 Years Two and Three 1 C&MP 610 Medical Research Scholars Program: Mentored Clinical 1	Fall		
B&BS 680Topics in Human Investigation1Years Two and ThreeImage: C&MP 610Medical Research Scholars Program: Mentored Clinical1	PATH 690	Molecular Mechanisms of Disease ¹	1
Years Two and Three C&MP 610 Medical Research Scholars Program: Mentored Clinical 1	Spring		
C&MP 610 Medical Research Scholars Program: Mentored Clinical 1	B&BS 680	Topics in Human Investigation	1
	Years Two and Three		
	C&MP 610	6	1

 $^{\rm 1}\,$ May be substituted with C&MP 600 and C&MP 601, Medical Physiology Case Conferences

Award of the Certificate

Students who complete the full curriculum and who remain in good academic standing in their graduate programs will be awarded the certificate.