

FACULTY

A team of seasoned researchers from American and Canadian academia, the international and U.S. pharmaceutical industry and the National Institutes of Health serve as mentors and role models for these future scientists.

In the 7th- and 8th-grade summers, a team of classroom-based teachers provides a foundation in cutting-edge research skills. From the 9th grade through the college senior year, each trainee serves an annual bench research internship with a Ph.D. basic science researcher, and multiple preceptorships with M.D. clinicians. Weekly seminars are conducted by M.D./Ph.D. researchers. Research mentors are currently drawn from the School of Medicine at Temple University, University of Pennsylvania, Drexel University, Thomas Jefferson University, the University of Toronto, the University of British Columbia; faculty at the National Institutes of Health; and the scientists at the following pharmaceutical companies: Amgen, Centocor, Merck and Wyeth.

PARTICIPANTS

Applicants are identified through a national network of contacts. Applicants selected for the program must have an application, an essay, high scores on the SSAT national exam, A- or better grades on a three-year academic transcript, a battery of interviews, and must live in the dorms during the summer. Successful candidates receive an invitation to participate in this rigorous academic privilege. Continued participation in the program is conditioned upon demonstrated interest in science and medicine, excellent grades, hard work, and good character. The program targets individuals from populations that are underrepresented in the biomedical pipeline: African-Americans, mainland Puerto Ricans, Native/Alaskan Americans and Pacific Islanders.

(210-060715)

FUNDING

The Physician Scientist Training Program is based in the Medical Research Building, Temple University School of Medicine. Financial support comes from pharmaceutical companies and the National Institutes of Health.



FOR MORE INFORMATION

about The Physician Scientist Training Program, call, write or e-mail:

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SSAT Program Code: 0202

Physician Scientist Training Program



MINORITY ACCESS TO RESEARCH CAREERS (MARC) COMPONENT

HISTORY AND PURPOSE

The Physician Scientist Training Program (PSTP) was created in 1985 as a science pipeline to increase the number of minorities in biomedical research careers. The original program offered a one-summer research internship to a small group of 12th-grade students who had shown exceptional academic promise in science.

Initial failures with this short-term training model proved that the best way to increase the number of underrepresented minorities in research careers is to start early by placing them in a long-term comprehensive training program. In 1990, the PSTP initiated its longitudinal training model and its multi-institutional approach.

The primary purpose of the longitudinal training is to prepare brilliant minority students for biomedical research careers in academia and/or the pharmaceutical industry. The goal of the program is to produce minority physician scientists with the M.D./Ph.D. combined degree or the M.D. degree, as well as minority biomedical scientists with the Ph.D. degree.

Twenty-one years after this small beginning, the PSTP has evolved into the largest and the most diverse biomedical research training program for students from 7th grade through medical/graduate school.

BASIC CURRICULUM

The longitudinal training occurs at the junior high, senior high, college and graduate/medical school levels. The Minority Access to Research Careers (MARC) component consists of:

Junior High:

(classroom-based across 6 weeks)

Wet Bench Research Skills Course
 Research Statistics Course
 Scientific Writing Course
 Research Presentation Course
 Academic Advising
 Career Seminars

Senior High:

(internship-based across 9 weeks)

Research Internship (Academia)
 Research Internship (NIH)
 Research Internship (Pharmaceutical Industry)
 Research Seminars and Scientific Meetings
 Written and Verbal Presentations
 Clinical Medicine Rotations
 Academic Advising/
 Career Counseling
 College Search/
 Scholarship Search

Undergraduate:

(internship-based across 12 weeks)

Research Internship (Canadian Academia)
 Research Internship (Overseas pharmaceutical co.)
 Research Internship (U.S. pharmaceutical Industry)
 Research Seminars and Scientific Meetings
 Written and Verbal Presentations
 Clinical Medicine Rotations
 Academic Advising/
 Career Counseling
 Medical/Graduate School Search



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LONGITUDINAL PIPELINE

JUNIOR HIGH		SENIOR HIGH				UNDERGRADUATE			
7th	8th	9th	10th	11th	12th	1st	2nd	3rd	4th
6 wks.	6 wks.	9 wks.	9 wks.	9 wks.	9 wks.	12 wks.	12 wks.	12 wks.	12 wks.
Academia		Academia		Govt.	Industry	Academia	Industry		Industry
Temple University Medical School		Temple Penn Drexel Jefferson		National Institutes of Health (NIH)	U.S. Pharmaceutical companies	Canadian Schools of Medicine	Overseas pharmaceutical companies		U.S. pharmaceutical companies
CLASSROOM		INTERNSHIP				INTERNSHIP			