

The Public Health Research Institute Summer High School Research Internship Program

The Summer High School Research Internship Program serves minority students who attend high schools or live in Newark and their science teachers. Its goal is to nurture, through hands-on laboratory research experiences, the students' interest in science. Mr. Yaakov Saturen, a science teacher with more than ten years' experience in inner city high schools, directs the program. Students begin with a two-week workshop that introduces them to the vocabulary of molecular biology and biochemistry and basic laboratory skills, tools and techniques. They meet PHRI Principal Investigators, who give a series of lectures. After the workshop, each student is assigned to a PI's lab, paired with a scientist/mentor and assigned his or her own research project. Over the course of the summer, they meet weekly to discuss their projects. Each one writes a short research paper on his or her project. They also take field trips to various sites where they can see how research is being applied for the benefit of society.

Support for the Summer 2006 program has been provided by PHRI and the American Chemical Society Project SEED.



L. to R.: J. Araujo, N. Emele, T. Thompson, K. Frazier, M. Weng, Y. Saturen (Dir.), J. Robles (TA), M. Buggs.

"Before I came here, I didn't know I really liked science, but once I got here, I liked the challenge. Each day I would get so absorbed that I wanted to keep going with my experiments to see what happened." - Past Student Participant

Summer 2006 Research Internship Participants

Program Director: Yaakov Saturen, Jane Addams HS, Bronx, NY

Teaching Assistant: Juan C. Robles, FLABT HS, Bronx, NY

Newark Schools: West Side High School, Science High School

<i>Student</i>	<i>Principal Investigator</i>	<i>Mentor</i>	<i>Research Topic</i>
Jason Araujo	P. Soteropoulos PHRI	L. Beadling, UMDNJ	Micro-array technology and gene expression
Kyomi Frazier	Karl Drlica PHRI	M. Malik PHRI	Chloroquinolones and antimicrobial drug resistance
TashyanaThompson	M. Gennaro PHRI	S. Kunnath PHRI	Diagnosis of <i>M. tuberculosis</i> infection by immunologic methods
Ming Rong Weng	Issar Smith PHRI	M. Rodriguez PHRI	Regulation of Iron uptake in <i>M. tuberculosis</i>
Nichole Emele	Hua Zhu, DMMG	O. Zaccheus PHRI	<i>In vitro</i> studies on Human Varicella Zoster Virus
<i>Teacher</i>	<i>Principal Investigator</i>	<i>Mentor</i>	<i>Research Topic</i>
Monique Buggs	B. Kreiswirth PHRI	K. Denton PHRI	Mapping MRSA & MSSA in New Jersey Using GIS

"Students who complete the program leave with much more than research experience. They develop analytical and critical thinking skills that they can use in all areas of learning and throughout their lives." - Yaakov Saturen