

Summer Fellow, 2014 MMRL Summer Fellowship Program

May-July 2014 Masonic Medical Research Laboratory, Utica, NY *400 hours*

Mentor: Dr. Aaron Glass, Ph.D.

PI: Dr. Charles Antzelevitch, Ph.D., F.A.C.C., F.A.H.A., F.H.R.S.

Organ Bioengineering / Stem Cell Research

- One of 14 students awarded opportunity to conduct research through the 2014 MMRL Summer Fellowship Program
- Differentiated human induced pluripotent stem cells (hiPSC) into cardiomyocytes
- Maintained hiPSC and hiPSC-derived cardiomyocyte cell lines
- Performed optical mapping studies through the use of calcium- and voltage- sensitive dyes

Volunteer Research Student, ACPHS Pharmaceutical Research Institute (PRI)

Spring 2014 Rensselaer, New York

100 hours

Mentor: Husain Al-Mubarak

PI: Dr. Shaker Mousa, Ph.D., M.B.A., F.A.C.C., F.A.C.B.

Stem Cell Research

- Learned differentiation protocols for mesenchymal stem cells
- Performed chicken embryo chorioallantoic membrane assay (CAM assay)

Presentations

"Optimization of Dendritic Spine Labeling with the Carbocyanine Dye DiI and Immunohistochemistry" Harvard Stem Cell Institute (HSCI) Internship Program Final Research Symposium. Oral Presentation and Poster. HSCI, Cambridge, MA. August 2015

"Conduction studies in human induced pluripotent stem cell - derived cardiomyocytes" Masonic Medical Research Laboratory Summer Research Fellowship Research Symposium. Oral Presentation. MMRL, Utica, NY. July 2014

Employment

Pharmaceutical Sciences Proctor

September 2014 – May 2015

- Administered exams for the Department of Pharmaceutical Sciences at ACPHS
- Organized the testing environment and promoted academic integrity to the student body

Leadership

Health Occupations Students of America

2011-2013, 2015- Present

- Organized and competed in group competitions focused on health care and medicine
- Volunteered in numerous community service activities

Provost's Honors Circle Member

April 2014 – May 2015

- Part of the inaugural Provost's Honors Circle at ACPHS (1 of 7 students)
- Involved in the comprehensive, interdisciplinary, enrichment experience with the overall goal of improving the community
- Presented on issues with organ donations and human trafficking in the United States and around the world in weekly discussions

President-elect for SCAI

April 2014 – May 2015

- Facilitated as a member of the Proctoring Committee in the Student Coalition for Academic Integrity (SCAI)
- Promote academic integrity and professionalism on campus through various events
- Served as a liaison for individuals with questions regarding academic integrity
- Host leadership seminars and attend conferences in an effort to identify and promote the values of academic integrity to all students and professors

Peer Mentor

August 2014 – May 2015

- Provided outreach to 4 students to serve as a counselor for support, guidance, and information about ACPHS
- Engaged mentees throughout the year to assist with their transition to college

Orientation Committee Member

August 2014

- Expedited the move-in process for incoming freshman
- Contributed to icebreaker activities for incoming students to build community
- Assisted with the transition of freshman by offering guidance

Community Service

Family Room Volunteer – Ronald McDonald House

August 2015 – Present

- 4 hours/week
- Offered support for families with children in the pediatric intensive care unit

Capital City Rescue Mission – Free Clinic

September 2014 – May 2015

- 5.5 hours/week
- Administered blood glucose and blood pressure tests, managed chief complaints, and recorded patient histories
- Aided in the Med room by collaborating with physicians and refilling prescriptions
- Scribed for health care providers using the electronic medical record system
- Shadowed health care providers to broaden my knowledge about medicine

University at Albany Big Brothers Big Sisters

February 2014 – May 2015

- 6 hours/month
- Volunteered as a 1-on-1 mentor for children from underserved populations
- Engaged in various activities to promote communication, character, and attitude

Colleges against Cancer

October 2013 – May 2015

- Served as a team captain for Relay for Life, recruited team members, and utilized social media outlets to raise money for cancer research
- Assisted with the setup of various Colleges against Cancer events such as "Paint the Campus Purple"

Utica Rescue Mission – Food Service

May 2014 – July 2014

- 6 hours/week
- Expedited the preparation and distribution of food to populations in need

St. Peter's Hospital

February 2014 – May 2014

- Assisted health care providers with non-invasive tasks in the Cardiology department
- Communicated with patients and assisted with improving the quality of stay

High School Clinical Volunteering

2011 - 2013

- Volunteered over 200 hours in various hospital departments at Raritan Bay Medical Center and Jersey Shore University Medical Center

Shadowing

- Capital City Rescue Mission Free Clinic – General 10 hours
- St. Peter's Hospital in Albany – Cardiology 10 hours
- Jersey Shore University Medical Center – Infectious Diseases 18 hours
- Jersey Shore University Medical Center – Pediatrics 18 hours
- Jersey Shore University Medical Center – Various Pharmacy Depts. 44 hours
- Jersey Shore University Medical Center – PICU 4 hours
- Jersey Shore University Medical Center – NICU 4 hours
- Jersey Shore University Medical Center – General 8 hours
- Raritan Bay Medical Center - Emergency Room 20 hours
- Rutgers New Jersey Medical School – Cadaver 3 hours
- Online Distance Learning – 2x total knee replacements 6 hours