

**RUTGERS**

Ernest Mario School  
of Pharmacy

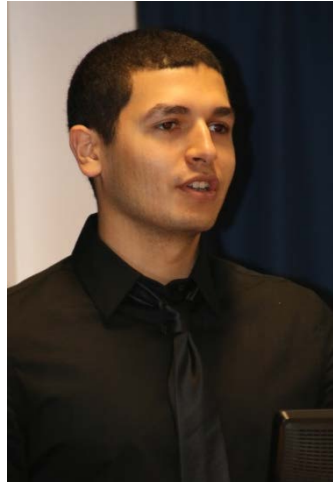
**2015 EMSOP Summer  
Undergraduate Research  
Fellowship Program**

## **2015 EMSOP Summer Undergraduate Research Fellowship Program**

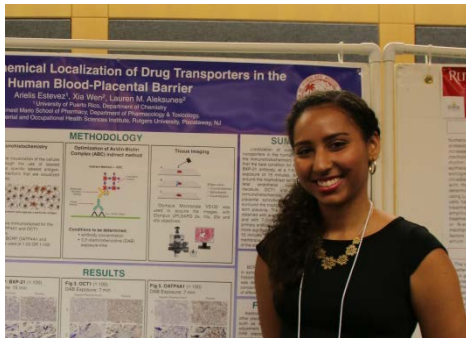
Seventeen students were selected for the Summer Research Fellowship Program at the Ernest Mario School of Pharmacy. Students were very active in a number of events:

- Participated in a tour of the pharmaceutical company Bristol-Myers Squibb and met in small groups with scientists from various teams within Drug Safety Evaluation.
- Dynamic research discussions with Dr. Jeff Laskin (School of Public Health) and Dr. Thea Goldin (Ernest Mario School of Pharmacy).
- Career-focused events including discussion of careers with pharmaceutical and personal product industry scientists, Ms. Mindy O'mealia (Career Services, Rutgers), Dr. Claire Croutch (MRI Global), and Dr. Michael Toscani (School of Pharmacy).
- Participated in Final Thesis Completion for Honors Students
- Active participation in Responsible Conduct of Research Case-Based Session
- Students met with high school students during lunchtime sessions to discuss picking majors.
- Fantastic final presentations of research projects on July 23 and 30, 2015

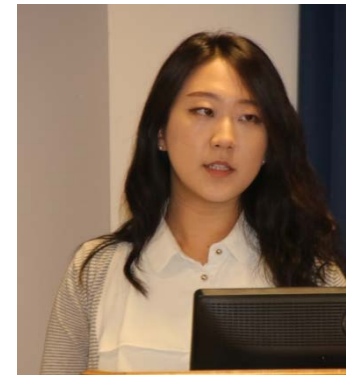
# 2015 SURF Fellows







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# Bristol-Myers Squibb Field Trip





# Bristol-Myers Squibb Field Trip





# Career Development With Graduate Students



# 2015 Summer Research Presentations

Researcher	Mentor	Project Description
Arielis Esteves	Aleksunes	Immunohistochemical Detection of Drug Transporters in the Human Blood-Placental Barrier
Tiara Askew	Fang	Effects of Environmental Toxicants and Chemopreventive Agents on Cellular Circadian Rhythm in Human Epithelial Cells
Cindy Qiu	Guo	Expression of Genes at mRNA Levels Involved in Cholesterol Homeostasis during NASH Development for FGF – 15 KO Mice
Kevinn Eddy	Chen	Role of Metabotropic Glutamate Receptor 1 (GRM1) in Exosome Production and Melanoma Metastasis
Amr Tawfik	J.Laskin	The Effects of Nitrogen Mustard Exposure on the Endocannabinoid System in Skin Wound Repair
Hyunjung (Christine) Go	Zhou	Strain Differences in Sensitivity to Cuprizone Induced Demyelination
Ian Berman	D.Laskin	Anti-TNF $\alpha$ Antibody as a Therapeutic Agent in Nitrogen Mustard Induced Lung Injury
Gehad Ali	Sunil	Role of the Spleen in Nitrogen Mustard-Induced Lung Inflammation in Mice
Daniel Menza	Kipen	Using Selenium to Correct Circadian Rhythm Disruption
Haoyue Zhou	Guo	Expression of Genes at mRNA Levels Involved in Cholesterol Homeostasis During NASH Development for Tissue Specific FXR Knock Out Mice
Joanne Junga Kim	Maroney	Antipsychotic Polypharmacy: Justification and Documentation
Anna Lee	Minden	PAK4 in Skeletal Myoblast Differentiation



# 2015 Summer Research Presentations

Researcher	Mentor	Project Description
Wenyi Zhu	Richardson	The Effects of Pesticides and Metals on the Levels of Amyloid Precursor Protein
Shannon Coghlan	Reuhl	Dose-Response Toxicity of Trimethyltin in Murine Hippocampus
Li Ching Sheng	Suh	The Effects of Vitamin D on Breast Cancer Stem Cells
Amy Huang	Uhrich	Bioactive Amphiphilic Macromolecules as Stent Coating
Daniella Olan	Schwander	Development of a Bilayer Model Mimicking the Human Alveolar Wall for Tuberculosis and Air Pollution Studies
Jong Won Lee	Kong	Pharmacodynamics of Tanshinone I: Induction of Nrf2 – ARE pathway in HepG2C8
Arianna Kee	Sinko	Fabrication and Characterization of Nanoparticles Targeting the Mannose Receptors on Macrophages
Kyle Buckley	Guo	Quantification of Bile Acids in Mouse Tissue
Minchang Choi	Gordon	Melatonin as a Countermeasure for Nitrogen Mustard-Induced Corneal Injury
Michael Mudrak	Laumbach & Black	Childhood Asthma: Stress and Its Effects on Cortisol and Exhaled Nitric Oxide
Emily Do	Gow	Macrophage Origin and Local Environment Determine Phenotype in Response to Acute Lung Injury
Abdelrahman Ewis	Gow	Beetroot Juice as a Dietary Supplement to Support Vascular Nitrites: A Method to Support Endothelial Function in the Face of Pollution
Lucy Lin	Hart	Mutagenesis in Ataxia Telangiectasia Induced Pluripotent Stem Cells

# Funding and Support

**RUTGERS**

Ernest Mario School  
of Pharmacy

<http://pharmacy.rutgers.edu/>

**RUTGERS**

Graduate School of  
Biomedical Sciences

<http://gsbs.rutgers.edu/>



<https://eohsi.rutgers.edu/niehs/>

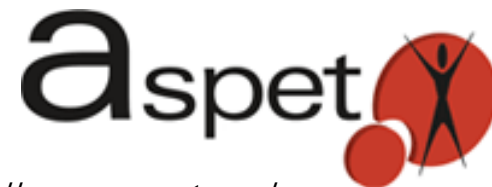


<http://eohsi.rutgers.edu/>



**National Institute of  
Environmental Health Sciences**

<http://www.niehs.nih.gov/>



<http://www.aspet.org/>

**RiSE** at Rutgers  
UMDNJ  
Research in Science and Engineering

<http://rise.rutgers.edu/>



**Bristol-Myers Squibb**