

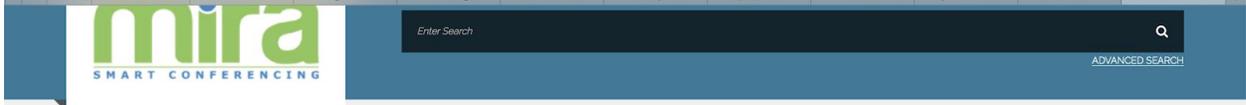
# SAG REFLECTION SPRING 2018

SARAH DENG

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This past week I had the pleasure of attending the Northeast Bioengineering Conference at Drexel University in Philadelphia, Pennsylvania. This was my first large conference and it was an amazing and educational experience. The talks were super interesting. Among my favorites was the orthopedic engineering seminar, which talked about someone developing a robotic glove using a kind of synthetic string that shortened when an electric current was run through it. It was amazing to see not just because they were so close to a successful product that would help millions in rehabilitation, but also that the product actually came out a mistake made by their lab earlier on. This led to the accidental discovery of this filament that had the shrinking properties. Something else that I found really cool is that some of the doctors who has talks spoke about the role of entrepreneurship in their professional careers, which is pretty in line with what goes on at Olin. In fact, I actually saw some overlap with the material we learned in Products and Markets. Many presenters cited the Lean Model Canvas, something highlighted a lot in the class.

The poster sessions were also a great experience. Because I presented two research posters, one per session, I was able to fully enjoy the design poster session. I saw a lot of really amazing devices made for problems that would benefit many. For example, one team created a small device that would help alleviate menstrual pain, which is a very prevalent issue. In the research session, I was actually one of the few undergraduates present, so it was really cool to be among such accomplished students. I was able to talk to other people in my field about my work, which helped me develop new ideas for future research. I was also able to tell people about Olin and some people in the education space recognized Olin and came up to talk to me about the school and my experiences there, which was really interesting. Overall, I really enjoyed the conference and the opportunity to really immerse myself in the bioengineering field and see what it's like to be in the real world!



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Author:  
Deng, Sarah

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**The Tumor Suppressor Protein RASSF1A modulates transcriptional activation of NF-AT**

Author: [Deng, Sarah](#) [McConnaughay, Kerry](#) [Pasari, Phuwadet](#) [Baksh, Shairaz](#) [Pratt, Joanne](#)

Theme: [Cellular and Molecular Bioengineering](#)

Presentation Type: [Research - Poster](#)

[View Submission](#)

**Pore Formation and pH Dependent Behavior of Lipid Bilayer Coatings**

Author: [Deng, Sarah](#) [Sasaki, Darryl](#)

Theme: [Drug Delivery](#)

Presentation Type: [Research - Poster](#)

[View Submission](#)

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## RESEARCH POSTER PRESENTATIONS

### CARDIOVASCULAR, CELLULAR AND MOLECULAR BIOENGINEERING

128	A Model System for Advanced Glycation End Product-Related Structural Degeneration of Bioprosthetic Valves	Christopher Rock, Antonio Frasca, Samuel Keeney, Giovanni Ferrari, Robert Levy	The Children's Hospital of Philadelphia
278	Canine Tracheal Stent Design	Harry Chartoff, Anna Kjelgaard, Tyler Marshall, Joseph Switzer	Worcester Polytechnic Institute
92	Promoting Myogenic Potential of Human Endothelial Progenitor Cells by Transactivation of Endogenous MYOD1 In Vivo	Ji Sun Park, Jong-Wan Kim, Syandan Chakraborty, Hong Sun Ahn, Nicholas Hornstein, Peter Sims, Hae-Won Kim, Jung Keun Hyun, Kam Leong	Columbia University
103	Design and Optimization of a Cholesterol-Binding Peptide Based on the Cholesterol Recognition Aminoacid Consensus Motif	Anxhela Sinani, Evan Koufos, Angela Brown	Lehigh University
106	Encapsulation of Mesenchymal Stromal Cells in Alginate for the Treatment of Osteoarthritis	Sarah Salter, Ileana Marrero-Berrios, Rene Schloss, Martin Yarmush	Rutgers University
113	Donor Dependent Effects on the Survival and Extracellular Matrix Producing Capacity of Mesenchymal Stem Cells following Hypoxia and TGF-beta Conditioning	Justin Bendigo, Sun Peck, George Dodge, Robert Mauck, Neil Malhotra, Lachlan Smith	University of Pennsylvania
158	Endogenous Neural Stem Cell Activation After Traumatic Brain Injury	Jeremy Anderson, Misal Patel, Li Cai	Rutgers University
163	The Tumor Suppressor Protein RASSF1A modulates transcriptional activation of NF-AT	Sarah Deng, Kerry McConaughay, Phuwadet Pasarj, Shairaz Baksh, Joanne Pratt	Olin College of Engineering
187	Protein Kinase C-DELTA Tyrosine Phosphorylation is a Critical Regulator of Neutrophil-Endothelial Cell Interactions in Inflammation	Fariborz Soroush, Yuan Tang, Shuang Sun, Jordan Langston, Laurie Kilpatrick, Mohammad Kiani	Temple University
279	Caveolin1 Regulates ATP-Stimulated Nitric Oxide Production In Endothelial Cells	Tenderano Muzorewa, Donald Buerk, Dov Jaron, Kenneth Barbee	Drexel University
286	Investigating the Relationship Between Vascular Endothelial Cell Morphology and Function Through the Use of Patterned Substrates	Aparna Bhattacharyya, Kenneth Barbee	Drexel University
287	Human Schwann Cell Response to Tonic Electrical Stimulation	Alagu Chidambaram, Deanna Bouton-Thompson, Sally Temple	Rensselaer Polytechnic Institute
293	Plasma Membrane Fluidity Measurements of Bovine Aortic Endothelial Cells using Fluorescence Anisotropy of Trimethylammonium- Diphenyl-Hexatriene	Kelly Zaccheo, Kenneth Barbee, Dov Jaron, Donald Buerk	Drexel University
354	Effects of Ras/MAPK and PI3K Pathway on Cell Mechanics	Will Linthicum, Minh-Tri Ho Thanh, Michele Vitolo, Qi Wen	Worcester Polytechnic Institute

## RESEARCH POSTER PRESENTATIONS

### DRUG DELIVERY

44	Development of Tissue Mimic Models to Study Free Radical-Initiated Polymer Immobilization	Keana R. Mirmajlesi, Christopher J. Lowe, David I. Shreiber	Rutgers, The State University of New Jersey
73	3D Modeling and Simulation of Airflow and Aerosol Deposition of Idealized Human Oral Airways	Abdurrahman Addokhi, Abdullah Albedah, Omar Altwijri	Boston University
112	A Biomimetic Microfluidic Platform for Anti-tumor Drug Evaluation	Lara Reid, Wentao Shi, Yaling Liu	Lehigh University
212	Pore Formation and pH Dependent Behavior of Lipid Bilayer Coatings	Sarah Deng, Darryl Sasaki	Olin College of Engineering
269	The Uptake Study of a Novel Cell Penetrating Peptide on Multiple Mammalian Cell Types	Neil Chada, Weili Ma, Won Suh	Temple University
311	Synthesis of Chitosan/poly Glutamic Acid Nanoparticles with Various Characteristics	Chendong Han, Amber Doiron, Komal Abhang	SUNY Binghamton
313	Acetazolamide as Candidate Drug for Reducing Drug Clearance from the Brain via Cerebrospinal Fluid Pathways	Mariagemiliana Dessi, Sonia Yevick, Swetha Kodamasimham, Caroline Wood, Jay Sy	Rutgers University
341	Targeted Drug Delivery of Gemcitabine Loaded Polymer Microbubbles for the Treatment of Pancreatic Cancer	David Brown, John Eisenbrey, Lauren Jablonowski, Flemming Forsberg, Margaret Wheatley	Drexel University
350	Development of an Ultrasound-Sensitive Platform for Co-Delivery of Oxygen and Lonidamine to Hypoxic Tumor Sites	Nicholas Daroshefski	Drexel University
351	Wavelength-selective Cargo Release from Porphyrin- and Purpurin-phospholipid Liposome Mixture	Upendra Chitgupi, Shuai Shao, Kevin Carter, Wei-Chiao Huang, Jonathan Lovell	SUNY Buffalo
352	Local Delivery of Minocycline and BDNF using Hydrogels Loaded with Self-assembled Complexes Protects and Enhances Diaphragmatic Respiratory Function after Spinal Cord Injury	Zhicheng Wang, Biswarup Ghosh, Jia Nong, Mark Urban, Victoria Trovillion, Megan Wright, Angelo Lepore, Yinghui Zhong	Drexel University
318	In-Situ Forming PLGA-PEG-PLGA Hydrogel for the Delivery of Nucleic Acid Conjugates Nanospheres	Laura Osorno, Robert Getts, Mindy George-Weinstein, Mark Byrne	Rowan University