



# Connection

Developing Science,  
Impacting Health

American Association of Pharmaceutical Scientists

October 2015

## CONGRATULATIONS TO OUR WINNERS!

The AAPS Foundation would like to congratulate and recognize the 2015 AAPS Foundation New Investigator Grant winner and the 2015 AAPS Foundation Graduate Student Fellowship winners. In the Foundation's first year awarding the New Investigator Grant, the Foundation received 27 applications. The Foundation also received 100 applications from all over the world for the Graduate Student Fellowships. We would like to applaud all of our applicants and thank them for sharing their research proposal.

### 2015 AAPS Foundation New Investigator Grant Winner:

#### ***Novel Therapeutic Strategies to Target Invasive Brain Cancer***

Anthony J. Kim, Ph.D.

Assistant Professor of Neurosurgery and Pharmaceutical Sciences at the University of Maryland

### 2015 AAPS Foundation Graduate Student Fellowship Winners:

#### ***The Architecture and Biological Function of Dual Cyclized Aptamer-Coated Nanomaterials: Enhanced Specificity and Theranostics with Multifunctional Primer-integrated Molecular Beacon for Capturing Circulating Tumor Cells and Metastasis Prevention***

Haiyan Dong

Fuzhou University, Fuzhou, China

#### ***Impact of Degradable Polymers on Lymph Node Function and Systemic Immunity***

James I. Andorko

University of Maryland, College Park, Maryland

#### ***A molecular perspective for the understanding of the effectiveness of cellulose polymers at inhibiting drug crystallization.***

Laura Isabel Mosquera-Giraldo

Purdue University, West Lafayette, Indiana

#### ***Tolerogenic adjuvants for antigen-specific treatment of multiple sclerosis***

Laura Northrup

University of Kansas, Lawrence, Kansas

#### ***Gene Expression Profiles Reveal Alternative Targets of Therapeutic Intervention for the Treatment of Drug-Resistant Non-Small Cell Lung Cancers***

Madeline Krentz

University of Kentucky, Lexington, Kentucky

### 2015 AAPS Foundation Graduate Student Honorable Mentions:

#### ***Discovery and application of IGF2R-specific peptide for liver fibrosis therapy***

Zhijin Chen

University of Missouri, Kansas City, Kansas City, Missouri

#### ***Monocarboxylate Transporters (MCT) as a Novel Therapeutic Target in Triple Negative Breast Cancer (TNBC) Treatment***

Xiao Wen Guan

University of Buffalo, Buffalo, New York

#### ***Self-Assembled Nucleic Acid Particles to Drive Immune Tolerance***

Krystina Hess

University of Maryland, College Park, Maryland

#### ***A Novel RNA Based Biomaterial for Bone Regeneration***

Behnoush Khorsand-Sourkahi

University of Iowa, Iowa City, Iowa

#### ***The modulation of endothelial progenitor cell function by the liver X receptors as a treatment for atherosclerosis***

Adil Rasheed

University of Toronto, Toronto, Canada

For more information, please visit [www.aaps.org/](http://www.aaps.org/)

## TAKE THE AAPS FOUNDATION CHALLENGE!

Sign up for the AAPS Foundation 5K Fun Run/Walk Today!

October 25, 2015/Start Time: 7 am

Hyatt Regency Orlando  
9801 International Drive, Orlando, Fla.

Pack your running shoes! The AAPS Foundation will be hosting our inaugural 5K Fun Run/Walk during the 2015 AAPS Annual Meeting and Exposition in Orlando, Fla. You won't want to miss this exciting opportunity to kick off the AAPS Annual Meeting with a morning workout with other AAPS members, exhibitors, and sponsors. Invite your family and friends. The AAPS Foundation will commit 100% of the proceeds toward supporting the AAPS Foundation's programs for K–12 students, graduate students, and faculty members.

Want to make a bigger impact and be recognized at the Opening Session? The AAPS Foundation will be giving out medals for the top three male and female finishers. In addition, one section and one student chapter will be recognized in each of the following categories: the group that raises the most amount of money and the group that has the most number of participants.

For more information, please visit [www.aaps.org/foundation/5K](http://www.aaps.org/foundation/5K)

## INTEL INTERNATIONAL SCIENCE AND ENGINEERING FAIR (ISEF) AAPS SPECIAL AWARDS

The American Association of Pharmaceutical Scientists (AAPS) is pleased to announce the winners of the Intel International Science and Engineering Fair (ISEF) AAPS Special Awards. The Intel ISEF is a program of Society for Science & the Public (SSP) and is the world's largest international pre-college science competition. Approximately 1700 high school students from over 75 countries, regions and territories were awarded the opportunity to showcase their independent research at the Intel ISEF 2015 by winning a top prize at a local, regional, state or national science fair.

AAPS has been a proud supporter of the Intel ISEF as a Special Award Sponsor since 2009.

## 2015 AAPS INTEL ISEF AWARD WINNERS

### FIRST AWARD OF \$2000

*Development of a Novel Oncolytic Virus for Cancer Treatment and Diagnosis*

Aditya Anand Mohan, 18, Colonel By Secondary School, Ottawa, Canada

### SECOND AWARD OF \$1000

*Identification of Therapeutic Compounds for Treating Huntington's Disease: High Content Screening of Small Molecules for Modulating N17 Phosphorylation of Mutant Huntingtin*

Samuel Han, 16, Abbey Park High School, Oakville, Canada

### THIRD AWARD OF \$500

*Investigating the Protective Effects of Interleukin 22 on Intestinal Epithelium: Potential Graft-versus-Host Disease Treatment*

Juliet Adela Ivanov, 17, Ossining High School, Ossining, New York

### FOURTH AWARD OF \$250

*Effects of the Experimental Therapeutic Model Isolated Peptide Toxic- Prodrug in the Inhibition of Poly(ADP)Ribose Polymerase for Breast Cancer Treatment by the Use of Molecular Nanotransporters*

Demetrio Agustín Rodríguez Fajardo, 19, Centro de Enseñanza Técnica Industrial Plantel Colomos, Guadalajara, México

*Novel Potent Inhibitors for CIP2A with Mutational Classification Method*

Mohammad Mansour Tarek, 19, Salman EL-Farisy High School, Cairo, Egypt

## UPCOMING AAPS MEETINGS

at the Orange County Convention Center, Orlando, Fla.

### October 24, 2015

CRS/AAPS Joint Workshop on Formulation, Processing, and Testing of Functionally Coated Multiparticulates  
[www.aaps.org/controlledrelease](http://www.aaps.org/controlledrelease)

### October 24–25, 2015

AAPS Workshop on Specific Population Drug Dosing Recommendations: Shifting from Clinical Studies to Predict and Confirm  
[www.aaps.org/Subpopulations](http://www.aaps.org/Subpopulations)

**October 25, 2015**

AAPS Workshop on Nanotechnology in Personalized Medicine

[www.aaps.org/NPM](http://www.aaps.org/NPM)

**October 25–29, 2015**

2015 AAPS Annual Meeting and Exposition

[www.aaps.org/annualmeeting](http://www.aaps.org/annualmeeting)

**COMING IN APRIL 2016****April 4–5, 2016**

AAPS Workshop on Stability Modeling Tools and Analytical Method Strategies to Accelerate Pharmaceutical Product Development

**April 18–20, 2016**

AAPS/ITC Joint Workshop on Drug Transporters in ADME: From the Bench to the Bedside

**April 18–20, 2016**

51st AAPS Arden Conference: Enabling Oral Drug Delivery of Amorphous Pharmaceuticals through Advances in Physics, Engineering & Biopharmaceutics

**AAPS ELEARNING****Professional Development On-Demand**

Check out the AAPS webinar archive for instant replays of all of our live events. Topics include:

- Biotherapeutic Development
- Regulatory Sciences
- Professional Development
- Immunogenicity
- ...and more!

For more information visit [www.aaps.org/replay](http://www.aaps.org/replay)

**AAPS Connection**

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