

# 9<sup>TH</sup> ANNUAL RESEARCH SYMPOSIUM COLLABORATIVE RESEARCH IN THE HEALTH SCIENCES

Saturday, February 9 - Gozzo Student Center, Lecture Hall 202



8:30 - 9:00 am		Continental Breakfast in Dining Hall and Poster Viewing in Atrium	
9:00 - 9:15 am		<p><b>Welcome</b> <b>Greg Dewey, Ph.D.</b> President, ACPHS</p>	
<b>Keynote</b>			
9:15 - 10:00 am	<p><b>Stephen Gilman, Sc.D.</b> Senior Investigator and Chief, Social and Behavioral Sciences Branch of the National Institutes of Health Division of Intramural Population Health Research (NICHD) “A Team Science Approach to Health Disparities”</p>		
10:00 - 10:15 am	Discussion		
<b>Session I</b>			
10:20 - 10:40 am		<p><b>Thomas Lodise, Pharm.D., Ph.D.</b> “Efficacy and Safety of Ceftazidime-Avibactam in Combination with Aztreonam”</p>	
10:40 - 10:50 am	Discussion		
10:55 - 11:15 am	<p><b>Meenakshi Malik, D.V.M., Ph.D.</b> “Insights into the evolution of <i>Staphylococcus aureus</i> daptomycin resistance from an <i>in vitro</i> bioreactor model”</p>		
11:15 - 11:25 am	Discussion		
11:30 am - 1:00 pm		Poster Viewing in Atrium and Lunch in Dining Hall	
<b>Keynote</b>			
1:00 - 1:45 pm		<p><b>James A. Dias, Ph.D.</b> Vice President for Research at the University at Albany “The Promise, Approach and Challenge of Team Science”</p>	
1:45 - 2:00 pm	Discussion		
<b>Session II</b>			
2:05 - 2:25 pm	<p><b>Stanley Stevens, Ph.D.</b> “Bio-omics: a team-based approach”</p>		
2:25 - 2:35 pm	Discussion		
2:40 - 3:00 pm		<p><b>Christopher Cioffi, Ph.D.</b> “Visual Cycle Modulators for the Potential Treatment of Atropic Age-related Macular Degeneration and Stargardt Disease”</p>	
3:00 - 3:10 pm	Discussion		
3:15 - 3:25 pm	<p><b>Closing Remarks</b> <b>Tarun Patel, Ph.D.</b> Provost and VP of Academic Affairs, ACPHS</p>		
3:25 - 4:00 pm		Refreshments in Rite Aid Lounge and Poster Viewing in Atrium	

## Poster Titles and Authors

### Department of Pharmacy Practice

- 1. Pharmacist Driven Pharmacogenetic Testing Initiative: Implementation to Results**  
Jacqueline Cleary and Emily Seidl
- 23. Student Perception of the Opioid Epidemic at Albany College of Pharmacy and Health Sciences**  
Madyson Allard, Nicolas James, Jacqueline Cleary
- 27. Medicare Part D coverage of phosphate binders**  
Mariam Gawdat, Wendy Parker, Arthur Johnsen, Tyler Baumeister, Katie Cardone

### Department of Basic and Clinical Sciences

- 2. Mechanisms of ricin-mediated programmed cell death**  
Cody Kempen, Alexa L. Hodges, William D. McCaig, Yinghui Rong, Jennifer Westfall, Nicholas J. Mantis and Timothy J. LaRocca
- 3. Mitochondrial ROS prime cells for the hyperglycemic shift to necroptosis**  
William D. McCaig, Matthew A. Deragon, Payal S. Patel, Nicole L. Shakerley, Tori A. Smiraglia, and Timothy J. LaRocca
- 4. Role(s) of pp(p)Gpp in Oxidative Stress Response and Virulence in Francisella tularensis LVS**  
Zhuo Ma, Kayla King, Chandra Shekhar Bakshi, Meenakshi Malik
- 5. Genetic Basis for Daptomycin Resistance in Methicillin Resistant Staphylococcus aureus**  
Smruti Mishra, Erica Lasek-Nesselquist, Jackson Lu, Ryan Schneider, Zhuo Ma, Janice Pata, Kathleen McDonough, Meenakshi Malik
- 6. Developing a Murine Model for the Investigation of Vibrio parahaemolyticus Infections**  
Chen Shu Dong, Brittany Vojnar, Brittney Maring, Michelle A. Parent
- 7. Vibrio parahaemolyticus Response to Oxidative Stress**  
Brittany Vojnar, Brittney L. Maring, Chen Shu Dong, Stephanie Waters-Wezalis, Michelle A. Parent

8. **Co-culture between HIV-1 Infected MT2 Cells and THP1 Cells Induced Cell Death**  
Lalhming Zaua, Liang Xi, Laura Graf and Binshan Shi
9. **Quantification of HIV-1 1-LTR Circle DNA by Using A Nested Real Time PCR**  
Laura Graf, Katie Mellon and Binshan Shi
10. **Contribution of Thioredoxin A to Acinetobacter baumannii Virulence**  
Catherine Phelps, Patrick M Ketter, Bernard P Arulanandam, Nicole L Shakerley

## Department of Pharmaceutical Sciences

11. **Synthesis of Nicotinamide Riboside Derivatives**  
Song Zheng, Chinomso Ogbonna, Wilson Ebhohon, Yana Cen
12. **Chemo-enzymatic Synthesis of Isotopically Labeled Nicotinamide Riboside**  
Ai Tran, Ryota Yokose, Yana Cen
13. **Synthesis of Novel RPE65 Inhibitors for the Treatment of Age-Related Macular Degeneration and Stargardt's Disease**  
Machayla Donovan, Parthasarathy Muthuraman, Arun Raja, Christopher Cioffi
14. **Molecular Insights into Di-acetyllysine Histone Recognition by the BRPF1 Bromodomain**  
Juliet Obi, Mulu Y. Lubula, Chiara M. Evans, Kara McGuire and Karen C. Glass
15. **Molecular mechanism of di-acetyllysine recognition by the ATAD2B bromodomain**  
Jonathan T. Lloyd, Jamie C. Gay, Brian E. Eckenroth, Marco Tonelli, Gabriel Cornilescu, Paul Nguyen, Samuel Carlson, John L. Markley and Karen C. Glass
16. **Use of Topical Antioxidants for Inhibition of DNA Modifications Induced by Ultraviolet Radiation**  
Rebecca Cruz and Martha A. Hass
17. **Combination of photodynamic and chemotherapeutic agents in the treatment of psoriasis: Assessment of in vitro efficacy of aminolevulinic acid and mycophenolic acid**  
Manisha Venkatesh, Jeffrey Voigt and Martha A. Hass
18. **Cytokines secreted by stromal cells in TNBC microenvironment as potential targets for cancer therapy: experimental and bioinformatics predictions**  
Marie K. Malone, Karly Smrekar, Ludmila Danilova, Michael Considine, Elana J. Fertig, Sunju Park, Brianna Blakely, Alec Walter, Nicholas Nasta, Jay Park, Kideok Jin, and Aleksander S. Popel

**19. Structural and Biophysical Characterization of CYP2C9\*2 Genetic Variant Bound to an Anti-Hypertensive Drug Losartan**

Sonia Parikh, Chiara M. Evans, Juliet O. Obi, Karen C. Glass, and Manish B. Shah

**20. Functional Interleukin-6 (IL-6) Signaling in 419II cells**

Brianna Bootier and Jeffrey Voigt

**21. The Role of Endocannabinoids in the Post-Ischemic Survival of Human Brain Microvascular Vein Endothelial Cells**

Andrew B. Thurston, Schuyler Pruyn, HaiAn Zheng, Jefferey Voigt, Marcel Musteata

**22. Stability and Biodistribution of Endocannabinoids at the Blood-Brain Barrier**

Schuyler Pruyn and HaiAn Zheng

**Department of Population Health Sciences**

**24. Correlation between hospital finances and quality and safety of patient care**

Dean D. Akinleye, Matthew Goldhirsh, Louise-Anne McNutt, Victoria Lazariu, Colleen C. McLaughlin

**25. Evaluation of the Impact of a Rotavirus Vaccine Program on Pediatric Acute Gastroenteritis Hospitalizations: Estimating the Overall Effect Attributable to the Program as a Whole and as a Per-Unit Change in Rotavirus Vaccine Coverage**

Margaret K. Doll, Caroline Quach, David L. Buckeridge

**26. Feasibility of a Digital Health Technology to Engage Heart Failure Outpatients and Their Providers to Prevent Avoidable Readmissions**

Sean P. Pinney, Jennifer Ullman, Margaret K. Doll, Genna LeDrew, John Donehey, Beth Oliver, Anu Lala

**27. Medicare Part D coverage of phosphate binders**

Mariam Gawdat, Wendy Parker, Arthur Johnsen, Tyler Baumeister, Katie Cardone

**To view speakers' and participants' abstracts,  
please visit <https://www.acphs.edu/research-symposium>.**



**ALBANY COLLEGE OF PHARMACY  
AND HEALTH SCIENCES**