

2018 Auburn Research Faculty Symposium
Poster Session
Presidential Awards for Interdisciplinary Research (PAIR) Posters

Tier I

1. **Title:** AU NASH Program

Authors: Rajesh Amin¹, Thomas Denney², Adil Bashir³, Michael Roberts⁴, and Jeffery Martin⁵.

Affiliations:

¹Department of Drug Discovery and Development, Harrison School of Pharmacy.

² Department of Electrical and Computer Engineering, Director, AU MRI Research Center, Co-Director, Alabama Advanced Imaging Consortium

³ Electrical & Computer Engineering, AU MRI Research Center.

⁴ School of Kinesiology

⁵ Edward Via College of Osteopathic Medicine - Auburn

2. **Title:** Quantitative Analysis of Perfluoroalkylethercarboxylic Acids (PFECAs) in Environmental Matrices (Emerging Contaminants Research Team)

Authors: Vanisree Mulabagal, Danyang Wang, Meredith Ayers, Caleb Wilson, Joel S. Hayworth

Affiliations: Department of Civil Engineering

3. **Title:** A prototype framework of climate information system for decision making.

Authors: Bo Liu; Brenda Ortiz; Xing Fang; Jasmeet Lamba; Puneet Srivastava; Sanjiv Kumar; Sarah Zohdy.

4. **Title:** Drugs from Dirt: Development and Characterization of Novel Antimicrobial Compounds

Authors: M. A. Sandoval-Powers¹, Y. Zhang², A. L. R. Santana-Pereira¹, D. A. Mead³, A. Calderon², A. Petrov¹, and M. R. Liles¹

Affiliations: ¹Department of Biological Sciences, Auburn University ²Drug Discovery and Development, Auburn University ³Varigen Biosciences, Madison, WI

5. **Title:** Extra-virgin Olive Oil Prevents Conversion of Mild Cognitive Impairment to Alzheimer's Disease

Authors: Amal Kaddoumi, Thomas Denney, Gopikrishna Deshpande, Ronald Beyers, Jennifer Robinson, Nancy Merner, Annie Kirby, Darren Beck

6. **Title:** SECCUS: Southeast CO₂ Capture, Utilization, and Storage Center at Auburn University

Authors: Lauren E. Beckingham¹, Andrew Adamczyk², Bryan Beckingham², Carlos Carrero², David King³, Ming-Kuo Lee³, Marta Miletic¹, Tae-Sik Oh², Anton Schindler¹, Ashraf Uddin³

Affiliations: ¹Department of Civil Engineering, ²Department of Chemical Engineering, ³Department of Geosciences

7. **Title:** Interdisciplinary Rural African American Aging Research

Authors: David Chae, Loka Ashwood, Michael Brown, Dominic Cheng, Gopikrishna Deshpande

Tier II

8. **Title:** A Mobile Mitochondria Laboratory (AU MitoMobile) to Lead the World in Measuring Bioenergetics in Natural Settings

Authors: Geoffrey Hill, Wendy Hood, Kristjan Niitepold, Andreas Kavazis, Bruce Gladden, Mark Nelms, Mike Eddy, John Tennant

9. **Title:** Establishment of a Center for Neuroscience at Auburn University

Authors: Vishnu Suppiramaniam, Miranda Reed and Tim Moore

Affiliations: Department of Drug Discovery and Development, Harrison School of Pharmacy

Tier III

10. **Title:** Communication is Key: Unlocking Home Affordability & Prosperity in Rural America

Authors: Rusty Smith, School of Architecture, Rural Studio Associate Director; Michelle Sidler, Department of English

11. Title: 3D Printing of Quadruped Orthotics: Stepping Towards a Brighter Future

Authors: A. Sterling, J. Suhling, D. Taylor, J. Gard

12. Title: Additive Manufacturing of Durable, Next Generation Implants

Authors: A. Vinel, K. Corriveau, N. Shamsaei, A.K. Kaddoumi, J. Ramapuram, C. Himel