UF Postdoc Research Symposium
Planning and Abstract Review Committee

William Puszyk, Chair
College of Medicine

Celine Baligand
College of Medicine

Dana Bigham
College of Agricultural and Life Sciences

Thierry Dubroca
Postdoc Affairs External Advisor

Allison Kinney
College of Engineering

Stefanie Marquez
College of Medicine

Gaurav Misra
College of Health and Human Performance

Rachel Walters
College of Liberal Arts and Sciences

University of Florida
Second Annual
Postdoc Research Symposium

Communicating Your Research

April 21, 2014 8:00am-3:00pm
Emerson Alumni Hall

Office of Postdoctoral Affairs
235 Tigert Hall, PO Box 113175
Gainesville, Florida 32611
Phone: (352) 392-2404
Web: postdoc.aa.ufl.edu

Kim Pace (kpace@aa.ufl.edu)
Assistant Provost and Director

Office of Postdoctoral Affairs    Office of the Provost
# Program

## Communicating Your Research

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<th>Time</th>
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<td>8:00am-8:15am</td>
<td>Registrant Check-In</td>
<td>President’s Room</td>
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| 8:15am-8:30am   | Welcome from the Office of Postdoctoral Affairs  
Kim Pace, Director of the Office of Postdoctoral Affairs | President’s Room    |
| 8:30am-10:30am  | Postdoc Oral Presentations and Judging     
Dr. Stefanie Marquez | Classroom 209      |
| 10:00am-10:45am | Break                                      | President’s Room    |
| 10:45am-12:00pm | Poster Presentations and Judging            
Group A Judging (Even numbered): 10:45-11:15am  
Group B Judging (Odd numbered): 11:15-11:45am | President’s Room    |

### A Few Good Tips in Science Communication

1. **The best science is arrested if not communicated.** Make every effort to share your discoveries, make them understandable to public audiences. Think about how you’d describe your findings to a non-scientist in an elevator, and practice that message.

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3. **Cool it, scientist.** Yes, we know you’re smart. Dial it down a notch and talk to us. Communicate. The best talks, grant proposals and papers make the problem understandable and urgent, the effects clear and personal, and the solutions realistic and immediate. Tell a story-- don’t crush the reader or listener in jargon and statistics.

4. **Remember your audience.** The opportunity to share your science might be rare. When you are asked to write, speak, or report about your work think about your audience, spend time considering how to make the message most appropriate and effective. Always prepare well and leave them wanting more.

5. **Understand rhetoric.** Revisit the ancient art of how to frame a persuasive campaign. Use it. Read about how advertisers reach an audience. Use these devices in your presentations, proposals and papers.

6. **Don’t forget about “priming”.** Psychology says that we make decisions in our brains before we know we made a decision. Make your work beautiful. Only submit it if it has a halo—if it screams about your care, attention to detail, and professionalism.

### Kevin Folta’s Ten Commandments for Early Career Scientists

- If it’s stupid, and it works, it’s not stupid
- Control what you can control, not what you can’t control
- If you don’t ask, you don’t get
- Measure twice, cut once
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- It takes money to make money
- Crisis and opportunity are intertwined
- Luck is the residue of proper design and hard work
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Oral Presentations

Sasanka Chukkapalli, Department of Periodontology, Dentistry
Oral infection with periodontal bacteria exacerbates rheumatoid arthritis in arthritis-prone B10 RII mice

Michael Gotesman, Infectious Diseases and Pathology, Veterinary Medicine
Systemic iridovirus infection in Nile Tilapia

David Kivilcim Hale, Civil Engineering, Engineering
Comparison of Optimization Methods for Assisted Calibration of Traffic Microsimulation

Mehrnaz Khodam Hazrati, Electrical and Computer Engineering, Engineering
Quantifying brain functional connectivity during active harm avoidance

Lan Hoang-Minh, Neuroscience, Medicine
Targeting Cilia and the Sonic Hedgehog Pathway to Inhibit Glioblastoma Progression

Stephan C. Jahn, Medicinal Chemistry, Pharmacy
The Roles of Chloride and GST21 in the Metabolism of Dichloroacetate

Adiel A. Klompmaker, Natural History, Florida Museum of Natural History
Tracking parasites through geologic time

Jeremy C McIntyre, Pharmacology and Therapeutics, Medicine
Restoration of Olfactory Function Using Gene Therapy

Kaustuv Saha, Neuroscience, Medicine
Intracellular methamphetamine prevents the dopamine-induced enhancement of neuronal firing

Ashley Smuder, Applied Physiology and Kinesiology, Health and Human Performance
Therapeutic effects of HSP72 overexpression in the diaphragm during mechanical ventilation

Kerry Bohl Stricker, Agronomy, IFAS
Emerging pathogens on a widespread invasive grass: Insights into biogeographic distribution, species richness, and severity of infection

Lei Xi, Biomedical Engineering, Engineering
Photoacoustic and fluorescence image-guided surgery using multifunctional targeted nanoprobe

Postdoc Research Symposium Abstract Book
A book containing the complete abstracts for all participants in this Symposium is available for downloading on the Office of Postdoctoral Affairs Symposium website:

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Poster Presentations

1. Brooke Armstrong Molecular Genetics and Microbiology, Medicine Microarray analysis of genes expressed in the developing urethral tube

2. Karoun H. Bagamian Geography/Emerging Pathogens Institute, CLAS Serological anthrax surveillance in wild boar in Ukraine

3. Tia Barnes Special Education, School Psychology, and Early Childhood Studies, Education The Influence of Student Demographics on CBI Effectiveness

4. Lokendrakumar Bengani Particle Engineering Research Center, Material Science and Engineering, Engineering Mathematical modeling of organic solutes across plant cuticle

5. Nikoloi M. Biel Pathology, Medicine Generation of vascular cells from patient derived iPSC to model hypertension


7. Daniel J. Perry Pathology, Immunology, and Laboratory Medicine, Medicine Metabolic Profiling of Human T cells

8. Nicholas Carris Pharmacotherapy and Translational Research, Pharmacy Tracking thrombosis and pain metrics in a status-post orthopedic surgical population: results from a participating institution in the surgical outcomes project

9. Jeeva Chang Tourism, Recreation & Sport Management, Health & Human Performance The effect of sport fans’ perceived CSR on pride and loyalty

10. Seung-Chul Choi Pathology, Medicine Overexpression of Pbx1-d, a novel splice isoform of Pbx1, changes the portion of follicular CD4 T cell populations and impairs regulatory T cell homeostasis

11. Anindya Dey Anatomy and Cell Biology, Medicine Maintenance of Androgen Receptor Inactivation by S-Nitrosylation

12. Puneet Gaitonde Pharmaceutics, Pharmacy Mechanism-based Evaluation of Codeine Toxicity in Children

13. Maria V. Guijarro Orthopaedics and Rehabilitation, Medicine Identification of cis-acting regulatory regions in osteosarcoma tumor initiating cells Oct4 reporter

14. Xuelian Huang Oral Biology, Dentistry Antagonistic Effects of Oral Arginolytic Bacteria on Streptococcus mutans

15. Maigan Hulme Periodontology, Dentistry Altered mucosal immunity and cellular plasticity in progression to Type 1 Diabetes

16. Sunil Joshi Pathology, Immunology and Laboratory Medicine, Medicine Activation of Inflammasome by Oxalate and Calcium Oxalate Crystals in an animal model

17. Lisa R. Keyes Molecular Genetics & Microbiology, Medicine MHV68 IncRNAs Regulate Epigenetic Machinery

18. Andrea E. Knowlton Periodontology, Dentistry Novel Targeting Methods for Pancreatic Cancer

19. Alexandra Kondyli Civil and Coastal Engineering, Engineering A 3D experimental framework for exploring drivers’ body activity using infrared depth sensors

20. Huacheng Luo Biochemistry and Molecular Biology, Medicine MOF acetates lysolecithin specific demethylase 1 (LSD1) to suppress epithelial-to-mesenchymal transition and tumor invasion

21. Eva Maria Garrido Martin Physiology and Functional Genomics, Medicine Common and distinctive pathogenetic mechanisms for development of arteriovenous malformations in HHT1 and HHT2 animal models

22. Helena Pan Mawdsley Center for Excellence in Early Childhood - SESPECS, Education Characterizing Transition Practice Intensity in Early Childhood

23. Shekher Mohan Anesthesiology, Medicine The Role of PGF2α FP Receptor in a Mouse Model of Intracerebral Hemorrhage

24. Nancy H. Nabilsi Biochemistry and Molecular Biology, Medicine Epigenetic Profiling Identifies Drug-tolerant Glioblastoma Cells

25. Manjunatha Ketumaranahalli Nanappa Physiological Sciences, Veterinary Medicine Nuclear progesterone receptors are required for full inhibitory actions of dexamethasone on luminal epithelial proliferation in the neonatal mouse uterus

26. Daniel J. Ryder Physical Therapy, Public Health and Health Professions Contractile Proteins are Key Targets for Lysine Specific Hypoacetylation and Hyperubiquitination during Muscle Atrophy.

27. Shanta Sarfare Ophthalmology, Medicine Biocompatibility of an adhesive biopolymer for the treatment of retinal detachment

28. Xung-Wei Wang Mechanical and aerospace engineering, Engineering EVAESCENT WAVE-BASED MICROFLUIDIC CAPILLARY FIBER-OPTIC BIOSENSOR FOR DETECTION OF C-REACTIVE PROTEIN

29. Fei Hong Wang Center for Excellence in Early Childhood Studies, Education Using Qualitative Rating Methodology and Latent Class Analysis to Identify Task-Oriented Behavior Patterns of Young Rural Children with Vulnerabilities and Strengths

30. Jonathan Whittamore Pathology, Immunology and Laboratory Medicine, Medicine Acid-base regulation of intestinal oxalate transport

31. Michael Wiggs Applied Physiology and Kinesiology, Health and Human Performance Inhibition of FoxO dependent translation prevents mechanical ventilation-induced reduction in diaphragm protein synthesis

32. Corey L. Williams Pharmacology and Therapeutics, Medicine Gene Therapeutic Restoration of Olfaction in Bardet-Biedl Syndrome

33. Julie Williams Pathology, Immunology and Laboratory Medicine, Medicine THC treatment during human monocyte differentiation reduces macrophage susceptibility to HIV-1 Infection

34. Wei-I Yeh Pathology, Medicine Elucidating the immunoregulatory roles of CD226 and TIGIT during type 1 diabetes

35. Ali Zarezadeh Orthopaedics and Rehabilitation, Medicine Proteasome Inhibitors Induce Differentiation, Cell Cycle Arrest And Apoptosis In Osteosarcoma.

36. Jinhua Zhang Mechanical and Aerospace Engineering, Engineering Capture of Tumor Cells with Fibrin in Microfluidic Devices

37. Guizhi Zhu Chemistry, Liberal Arts and Sciences Nuclease-resistant drug-DNA adducts for targeted anticancer drug delivery
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12:00pm-1:00pm
*President’s Room*

Lunch

1:00-2:00pm
*President’s Room*

Keynote Speaker and Workshop
*Introduction by Dr. Rachel Walters*

2:00pm-2:15pm
*President’s Room*

Break

2:15-3:00pm
*President’s Room*

Presentation of Awards
*Recognition of 2014 Postdoc Mentoring Award Winners*

Dr. Allison Kinney

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Dr. Michelle Mack
Department of Biology
College of Liberal Arts and Sciences

Dr. Doug Soltis
Department of Biology
College of Liberal Arts and Sciences

Dr. Weihong Tan
Department of Chemistry
College of Liberal Arts and Sciences

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Postdoc Symposium Poster and Oral Presentation Award Winners
*Dr. William Puszyk*

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