
**6th Annual MD/PhD Program Retreat**

Saturday, March 7, 2015
Greehey Children’s Cancer Research Institute Auditorium

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**Mini Poster Session I**

**Eric Baueule.** Tmem127 knockout metabolic and visceral fat analysis

**Andy Banh.** Mn(IV) oxides protect Pseudomonas putida GB-1 against oxidative stress

**Jacob Boyd.** Delayed treatment of traumatic brain injury with a purinergic ligand

**Laura Cafiisch.** Refining neuron modeling techniques using GENESIS

**Curtis Clark.** Tumor B7-H1 regulates mTOR and autophagy: a novel connection between immune co-signaling and cancer cell metabolism that affords novel treatment prospects

**Jeff Cooney.** Combinatorial targeting of the B cell receptor in diffuse large B cell lymphoma

**Brett Ipsoson.** Connecting metabolism to oxidative stress response: the role of tyrosine aminotransferase

**Brian Iskra.** An improved delivery system: Implementing lean six sigma principles at the San Antonio refugee clinic

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**Mini Poster Session II**

**Raehannah Jamshidi.** Improving peripheral kappa opioid receptor (KOR)-mediated antinociception: Functional selectivity profile of KOR agonists, salvinorin-A and ethoxymethyl (EOM)-salvinorin-A

**Eithan Kotkowski.** Picture this! A meta-analysis comparing the salience of words versus images

**Alex Kramer.** Nutrient-sensitive kinases regulate intestinal sams-1 nuclear delocalization in response to dietary restriction in C. elegans

**Cassandra Leonardo.** Longitudinal diffusion tensor imaging reveals association between changes in fiber integrity and cognitive measures

**Trevi Ramirez.** The role of fibroblasts in doxorubicin cardiotoxicity

**Kristen Rogers.** Phenotypic analysis of in vitro T-cell activation reveals sensitive & resistant groups

**Arpan Satsangi.** Conception of a multi-directional deflection sensor for measurement of compressive deformation of stabilized artificial bones

**Daniel Shrophshire.** The linker connecting the two kringles plays a key role in prothrombin activation

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**KEYNOTE SPEAKER**

**Barry Paw, MD, PhD**

Currently an Associate Professor of Medicine at Harvard Medical School and an attending physician in Pediatric Oncology at Boston Children's Hospital and the Dana-Farber Cancer Institute. He is board certified in General Pediatrics and Pediatric Hematology-Oncology. Dr. Paw's lab studies the biology of red cell development utilizing zebrafish as a model organism with a focus on pathways involved in mitochondrial iron trafficking for heme biosynthesis. Using a genetic screen, his lab identified a novel mitochondrial metal transporter, Mitoferrin-1, which functions as the primary mitochondrial iron transporter in developing erythroid cells.

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**DISTINGUISHED ALUMNI**

**Shelly Gunn, MD, PhD**

Currently chief medical officer of MolecularHealth, a treatment decision support services company. She is a board certified pathologist. Her focus is the delivery of precision cancer care to patients through genomic profiling of solid tumors with a specialty in breast and brain cancer genome analysis.

Dr. Gunn graduated from UTHSCSA with a combined MD/PhD degree in 2002 and then completed her clinical pathology residency at University Hospital in San Antonio. She served as Assistant Clinical Professor in the UTHSCSA Department of Pathology from 2006 to 2010.
**ORAL PRESENTATIONS**

Vinh Dao (GSIII)
Oral rapamycin requires interferon (IFN)-γ and promotes γδ T cell cytotoxicity to prevent carcinogen and inflammation-induced dermal cancer.

Justin Drerup (GSII)
Treg depletion by anti-CD25 antibody promotes T cell cytotoxicity and extends survival in an ovarian cancer model.

Katie Hinchee-Rodriguez (GSIV)
Regulation of neuronal nitric oxide synthase by insulin in skeletal muscle.

Tiffani Houston (GSIII)
An Investigation of Arsenic-mediated Urothelial Endocrine Disruption.

Mariam Ishaque (GSII)
Structural and Functional Connectivity Analysis in Autism Spectrum Disorders using MRI.

Karl Li (GSIII)
Characterizing default mode network connectivity for disease analysis.

David Melton (GSV)
MicroRNA-9: Mediator of inflammation.

Jessica Zavadil (GSIII)
Improving Therapy for Hepatocellular Carcinoma by Combining a HDAC Inhibitor with an Alkylating Agent.

**BREAK-OUT SESSIONS**

Session 1 (3:00-3:20pm)
- Diverse Careers for MD/PhDs
  
  Auditorium (2.160)
- Clinical Skills Maintenance during Graduate School
  
  Lecture Room (2.150)

Session 2 (3:20-3:40pm)
- Getting Published: Advice to get your research to the press
  
  Auditorium (2.160)
- Selecting a Research Mentor: Finding the right fit
  
  Lecture Room (2.150)

Session 3 (3:40-4:00pm)
- Choosing a Residency: Advice from MS4s
  
  Auditorium (2.160)
- Preparing for USMLE STEP I
  
  Lecture Room (2.150)