Posters

**MS1**
- Laura Caflisch. Refining Neuron Modeling Techniques Using GENESIS
- Brian Iskra. Identification of residues involved in forming the TGFβ2-BG complex
- Eithan Kotkowski. Picture This! A Meta-Analysis Comparing Affective Salience of Words vs. Images
- D. Alexander Kramer. Nutrient-sensitive kinases mediate intestinal sams-1 nuclear delocalization in response to dietary restriction in C. elegans
- Arpan Satsangi, PhD. Synthesis and characterization of an active-targeted, prodrug nano-device for enhanced therapeutic delivery in breast cancer models

**MS2**
- Curtis A. Clark. Biodistribution and Hemostatic Mechanism of rFVIIa in Coagulation Therapy
- Jeffrey Cooney. Megaloblastic Anemia and Mitochondriopathy Caused by a Homozygous Mutation in Sideroflexin-4
- Brett Ipson. MicroRNA-155 is at the interface of DNA damage response, B-cell development and lymphomagenesis
- Trevi A Ramirez. Alistiren and Valsartan Mediate Left Ventricular Remodeling Post-Myocardial Infarction in Mice through MMP-9 Effects on TIMP-1
- Kristen Rogers. Phenotypic Analysis of In-Vitro T-Cell Activation Reveals Sensitive & Resistant Groups

**GS1**
- Justin M. Drerup. Complete tumor regression after B7-H1 blockade and regulatory T cell depletion in a mouse melanoma model
- Mariam Ishaque. A Meta-Analysis Based Functional Connectivity Analysis in Autism Spectrum Disorder
- Christopher Kim. PF-ERCC1 Plays an Important Role in Interstrand Crosslink DNA Repair

**GS2**
- Vinh A. Dao. Oral rapamycin (eRapa) safely prevents carcinogen-induced dermal carcinogenesis through an interferon-γ-dependent mechanism

**GS3**
- Elena Wisely. Elucidating the relation between β2 adrenergic receptor, tau and mTOR

**GS4**
- Jill Heisler. A pathogenic role for kynurenine metabolism in prefrontal cortex mediated depressive symptoms
- David Melton. miR-9 Promotes and Regulates Macrophage Polarization
- Danielle A. Callaway. Caspase-2 is a regulator of osteoclast differentiation
- Jade Z. Zhou. Osteocytic Connexin 43 Hemichannels in the Prevention of Bone Metastasis

**MS3**
- Adam Rossano, PhD. Neuronal Activity Drives Presynaptic pH Regulation: Insights from Live Fluorescent pH-Imaging in Drosophila Melanogaster Motor Nerve Terminal
Program

7:30-8:00am: Registration and Breakfast
8:00-8:15am: Opening remarks
8:20-9:40am: Student Oral Presentations
    8:20-8:40am: Daniel Barron, GS3. Thalamic connectivity in temporal lobe epilepsy.
    8:40-9:00am: Vinh Dao, GS2. Oral rapamycin (eRapa) safely prevents carcinogen-induced dermal carcinogenesis through an interferon-γ-dependent mechanism.
    9:00-9:20am: Raehannah Jamshidi, GS3. A look beyond the drug label: norBNI, a kappa opioid receptor (KOR) antagonist or agonist?
9:40-10:00am: Coffee Break. (Students mount posters on boards)
10:00-11:00am: Keynote speaker Theodora Ross, MD, PhD. UT Southwestern Medical School. Purpose in Patients’ Genomes, Mouse Phenotypes and MD PhD Training
11:00-12:00pm: Posters
12:00-1:00pm: Lunch
1:00-2:00pm: Student Oral Presentations
    1:00-1:20pm: Katie Hinchee-Rodriguez, GS3. Insulin-stimulated neuronal nitric oxide synthase phosphorylation is AKT2-dependent in C2C12 skeletal muscle cells.

Program

1:00-2:00pm: Student Oral Presentations (con’t)
    1:40-2:00pm: Jessica A Zavadil, GS2. Improving Hepatocellular Carcinoma Therapy by Combining a HDAC inhibitor with an Alkylating Agent.
2:00-2:15pm: Coffee break
2:15-3:15pm: Invited Speaker Edward Medina, MD, PhD. UTHSCSA. Realizing the potential of my MD-PhD training: First steps
3:15-4:45pm: Break-out Sessions (Roundtable) (15min “musical tables”)
    Table 1: Medical to graduate school transition
    Table 2: Graduate to medical school transition
    Table 3: Medical to residency transition
    Table 4: Early Career as a physician scientist (Dr. Ricardo Aguiar)
    Table 5: Applying for grants (Dr. Linda McManus)
4:45-5:00pm: Awards for best poster and oral presentation Closing remarks

Theodora Ross, MD, PhD, received her MD and PhD degrees from the Washington University Medical Scientist Training Program (MSTP) in St. Louis in 1993. She subsequently completed an Internal Medicine residency in Boston at the Brigham and Women’s Hospital and an Oncology Fellowship at the Dana Farber Cancer Institute. She then transferred to University of Michigan – Ann Arbor where her lab focused on the mechanism by which normal cells transform into cancer cells. She also served as the Associate Director of the University of Michigan MSTP. She recently moved to UT Southwestern where she is a professor of Medicine and serves as the Director of the UTSW Cancer Genetics Program.