



## Meeting agenda:

### Wednesday, September 23<sup>rd</sup>, 2015

6:00 – 8:00 pm Registration Open- *Floor 1 Foyer South*

7:00 – 10:00 pm **Reception (joint with AAPS Rocky Mountain Discussion Group)- *Peak 14***

### Thursday, September 24<sup>th</sup>, 2015

7:30 – 8:30 am Registration Open- *Floor 1 Foyer South*

7:00 – 8:30 am **Continental Breakfast- *Peak 17***

8:30 – 8:40 am **Opening comments** – Dr. David Ross, Associate Dean for Research, School of Pharmacy, U. Colorado Anschutz Medical Campus

8:40 – 8:50 am **Meeting introduction** – MWSOT President Yin Chen & Vice-President Jared Brown

8:50 – 9:50 am **Keynote Speaker** - Dean Jones, Ph.D., Emory University – ***“The Changing Landscape of Mechanistic Toxicology”***

9:50 – 10:00 am **Break**

10:00 – 12:00 pm **Plenary Topic I: Transcriptomics/Genomics** (Session chair: Monica Sandoval-Johnson)

10:00 – 10:30 Scott Burchiel, U. New Mexico – ***“Analysis of Human Upper Airway Bacterial and Viral Microbiomes to Assess Immune Function Following Environmental Exposures”***

10:30 – 11:00 Christopher Reilly, U. Utah – ***“Activation of TRPV3 by Wood Smoke Particulate Material and Associated Consequences to Lung Epithelial Cells”***

11:00 – 11:30 Richard Radcliffe, U. Colorado – ***“Genetics and Genomics in the Laboratory Mouse Applied to the Study of Human Alcoholism”***

11:30 – 12:00 Ting Wang, U. Arizona – ***“Myosin Light Chain Kinase Mediates Particular Matter Exacerbated Asthma, an Example with Genomic Approaches”***

12:00 – 1:30 pm	<b>Lunch on your own</b>
1:30 – 2:00 pm	Todd Thompson, U. New Mexico – “Systematic Screening of Metal-induced Metallothionein Expression Profiles altered by Uranium”
2:00 – 3:00 pm	<b>Plenary Topic II: Metabolomics</b> (Session chair: Ross Osgood)
2:00 – 2:30	Nichole Reisdorph, U. Colorado – “Translational Metabolomics and Genomics and Chronic Obstructive Pulmonary Disease Research”
2:30 – 3:00	Svenja Heischmann, U. Colorado – “Metabolomic Biomarker Discovery in Experimental Temporal Lobe Epilepsy”
3:00 – 3:15	<b>Break</b>
3:15 – 4:00 pm	<b>Student/Postdoc Presentations</b>
3:15 – 3:30	Elani F. Wiest, U. New Mexico – “N-3 PUFAS Protect Against Cigarette Smoke-Induced Vascular Dysfunction”
3:30 – 3:45	Claire Heit, U. Colorado – “Modifications in Catalase and CYP2E1 Correlate to Decreased Alcohol Drinking Preference”
3:45 – 4:00	Sean Hammond, Colorado State University – “A Novel Small Molecule Activator of the Nuclear Receptor NURR1 (NR4A2) Promotes a Dopaminergic Phenotype in Neuron Cultures and Protects Against Neurotoxicity in a Mouse Model of Parkinson’s Disease”
4:00 – 6:00 pm	<b>Poster Session / Mixer- location</b>

## Friday, September 25<sup>th</sup>, 2015

7:00 – 8:30 am	Continental Breakfast- <i>Peak 17</i>
8:30 – 9:30 am	<b>Student/Postdoc Presentations - <i>Peak 17</i></b>
8:30 – 8:45	Valerie Minarchick, U. Colorado – “Injected Cerium Dioxide Nanoparticles Display Anti-Oxidant Activity in Spontaneously Hypertensive Rats”
8:45 – 9:00	Bryan Harder- U. Arizona – “Upregulation of NRF2 by TSC22D4 Confers Chemoresistance to Medroxyprogesterone Acetate (MPA) in Type 1 Endometrial Carcinoma”
9:00 – 9:15	Aram Cholanians, U. Arizona – “Role of Arsenic in the Oligomerization of Alpha-Synuclein: Implications in Parkinson’s Disease”
9:15 – 9:30	Ross Osgood, U. Colorado – “Toxic Effects of Polycyclic Aromatic Hydrocarbon Mixture Exposure in Lung Cell: A Role for Inflammation and the P38 MAPK Pathway”
9:30 – 10:00 am	<b>Break</b> and Award Committee Meeting

- 10:00 – 11:30 am     **Plenary Topic III: Proteomics/bioinformatics** (Session chair: Cameron McElroy)
- 10:00 – 10:30         Yin Chen, U. Arizona – TBD
- 10:30 – 11:00         Jonathan Shannahan, U. Colorado – “Alterations in Nanoparticle Toxicity Due to a Cholesterol-Rich Environment: The Impact of the Biocorona”
- 11:00 – 11:30         Laurie Hudson, U. New Mexico – “Determinants of Arsenic Binding to Zinc Finger Proteins in DNA Repair”
- 11:30 – 12:00         Laura Saba, U. Colorado – “Systems Genetics Tools for Integrating Omics Data and Identifying Susceptibility Pathways”
- 12:00 – 12:30         **Awards Presentation and Closing**