

## PROGRAM

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| <b>7:30AM – 8:30AM</b>   | <b>Registration &amp; Continental Breakfast</b> ..... <b>3<sup>rd</sup> Floor Vestibule</b><br>Poster set up ..... Ballroom  |
| <b>8:30AM – 8:45AM</b>   | <b>Welcome &amp; Opening Remarks</b> ..... <b>Alumni Theater</b><br>Lori McMahon, PhD ..... Dean, UAB Graduate School<br>David Schneider, PhD ..... Associate Dean, Graduate Biomedical Sciences<br>Kathryn Oliver, MS ..... President, Graduate Biomedical Student Outreach   |
| <b>8:45AM – 9:45AM</b>   | <b>Workshop 1 – Infection &amp; Immunity</b> ..... <b>Alumni Theater</b><br>Alexander Kleinpeter ..... UAB Biochemistry, Structural & Stem Cell Biology Theme<br><i>Structural basis for the activity of a potent influenza inhibitor</i><br>Bindiya Patel ..... UAB Pathobiology & Molecular Medicine Theme<br><i>Infiltrating macrophages contribute to the development of cardiac hypertrophy during acute pressure overload</i><br>Christopher Risley ..... UAB Microbiology Theme<br><i>CD38 modulates macrophage effector function in Listeria monocytogenes infection</i><br>Sarah Dulson ..... UAB Immunology Theme<br><i>STAT4 modulates innate lymphoid cell effector function and early responses to intestinal infection</i> |
| <b>9:45AM – 10:00AM</b>  | <b>Coffee Break</b> ..... <b>3<sup>rd</sup> Floor Vestibule</b>  |
| <b>10:00AM – 11:00AM</b> | <b>Workshop 2 – Neurological Pathologies</b> ..... <b>Alumni Theater</b><br>Anh Tran ..... UAB Cancer Biology Theme<br><i>GTP cyclohydrolase 1: Targeting glioblastoma via nitric oxide modulation</i><br>Mikael Guzman-Karlsson ..... UAB Neuroscience Theme<br><i>DNA methylation regulates neuronal intrinsic membrane excitability</i><br>Katherine Savell ..... UAB Genetics, Genomics & Bioinformatics Theme<br><i>Extra-coding RNAs regulate neuronal DNA methylation and memory formation</i><br>Jessica Nichols ..... UAB Cell, Molecular & Developmental Biology Theme<br><i>Manganese porphyrin as a potential therapeutic for repeated mild traumatic brain injuries</i>   |
| <b>11:00AM – 11:15AM</b> | <b>Coffee Break</b> ..... <b>3<sup>rd</sup> Floor Vestibule</b>  |
| <b>11:15AM – 12:15PM</b> | <b>Keynote</b> ..... <b>Alumni Theater</b><br><b>“Genetic epidemiology research based in electronic health records”</b><br>Neil Risch, PhD ..... University of California – San Francisco<br><i>Professor, Department of Epidemiology &amp; Biostatistics</i><br><i>Director, Institute for Human Genetics</i><br><i>Lamond Family Foundation Distinguished Professor in Human Genetics</i>  |
| <b>12:15PM – 1:15PM</b>  | <b>Lunch</b> ..... <b>3<sup>rd</sup> Floor Vestibule &amp; Ballroom</b>  |

## PROGRAM

- 1:15PM – 2:45PM**      **Poster Session** ..... **Ballroom**
- 2:45PM – 3:45PM**      **Workshop 3 – Molecular Mechanisms** ..... **Alumni Theater**
- Ashiya Buckels ..... UAB Cancer Biology Theme  
*Effects of growth hormone on WM35 human melanoma cell migration and invasion*
- Colleen Britain ..... UAB Genetics, Genomics & Bioinformatics Theme  
*Glycosyltransferase ST6Gal-I enables cancer cells to survive upon growth factor deprivation*
- Andrew Holdbrooks ..... UAB Pathobiology & Molecular Medicine Theme  
*Sialylation of the TNFR1 death receptor controls cells fate*
- Andrew Clarke ..... UAB Biochemistry, Structural & Stem Cell Biology Theme  
*Template sequence effects on RNA Polymerase I elongation kinetics*
- 3:45PM – 4:00PM**      **Coffee Break** ..... **3<sup>rd</sup> Floor Vestibule**
- 4:00PM – 5:00PM**      **Workshop 4 – Interdisciplinary Discoveries** ..... **Alumni Theater**
- Katie Bales ..... Vision Sciences, University of Alabama at Birmingham  
*Retinal degeneration associated with transition zone protein MKS6*
- Brett Gross ..... Immunology, University of Iowa  
*Evaluating breast cancer vaccines in mice*
- Adam Ambrosetti ..... McWhorter School of Pharmacy, Samford University  
*An investigational anti-cancer agent synergizes with VX-809 in F508del correction*
- Reim Almotiri ..... Physics, University of Alabama at Birmingham  
*Development of a molecularly imprinted polyacrylamide polymer for applications in biosensing*
- 5:00PM – 8:00PM**      **Evening Activities\***
- 5:00PM – 6:00PM, Cocktail Hour** ..... **Ballroom**  
Additional poster viewing (optional)  
1 ticketed beverage per person (photo ID required)
- 6:00PM – 7:00PM, Reception & Awards Ceremony** ..... **Ballroom**  
1<sup>st</sup> & 2<sup>nd</sup> Place prizes awarded for each workshop session  
1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> Place prizes awarded for each section of the poster session
- 5:00PM – 8:00PM, FREE Professional Head Shots** ..... **Room 314**  
Provided by Scott McLeod Photography (<http://www.scottmcleodphoto.com>)
- \*LiveWire Band will perform in the Ballroom throughout the evening.  
(<http://www.livewireshocks.com>)*
- 8:00PM**      **Symposium Conclusion**