Basic Science Day
A Celebration of Basic Science Research at Duke University School of Medicine

9:30 a.m. - 10:30 a.m. Guest Registration

10:30 a.m. - 10:35 a.m. OPENING REMARKS - Nancy C. Andrews, MD, PhD, Dean, School of Medicine

10:35 a.m. - 10:50 a.m. 2016: Basic Sciences at the School of Medicine
Raphael Valdivia, PhD, Vice Dean for Basic Science, School of Medicine

10:50 a.m. - 11:10 a.m. Teaching an Old Bird a New Tune
Richard Mooney, PhD, George Barth Geller Professor of Neurobiology

11:10 a.m. - 11:30 a.m. Physiological Regulation of Morphogenesis in Zebrafish
Michel Bagnat, PhD, Associate Professor, Department of Cell Biology

11:30 a.m. - 11:50 a.m. Sensing the Microbiome - and What This Means to Our Bodies
Gianna Hammer, PhD, Assistant Professor, Department of Immunology

11:50 a.m. - 1:30 p.m. BOXED LUNCHES/ POSTER BROWSING

1:30 p.m. - 1:50 p.m. Strength In Numbers: Weathering The Storm With Polyploidy
Don Fox, PhD, Assistant Professor, Department of Pharmacology and Cancer Biology

1:50 p.m. - 2:10 p.m. Metabolomics Meets Proteomics for Understanding Metabolic Disease
Deb Muoio, PhD, Professor, Pharmacology and Cancer Biology
Director, Basic Science Research, Duke Molecular Physiology Institute

2:10 p.m. - 2:30 p.m. Antifungal Nucleosides: Mechanism of Biosynthesis and Potentials for Genomics-guided Discovery
Kenichi Yokoyama, PhD, Assistant Professor, Department of Biochemistry

2:30 p.m. - 2:40 p.m. BREAK/ POSTER BROWSING

2:40 p.m. - 3:00 p.m. How Social Relationships Change the Genome
Jenny Tung, PhD, Assistant Professor, Department of Evolutionary Anthropology
Trinity College of Arts & Sciences, Duke Institute for Brain Sciences

3:00 p.m. - 3:20 p.m. Using Standing Human Variation to Assess Pathogenicity
Andrew Allen, PhD, Professor, Department of Biostatistics and Bioinformatics
Director, Center for Statistical Genetics and Genomics

3:20 p.m. - 3:40 p.m. An Ancient Lineage of Mycobacterium Tuberculosis
David Tobin, PhD, Assistant Professor, Department of Molecular Genetics and Microbiology

3:40 p.m. - 4:00 p.m. BREAK/ POSTER BROWSING

4:00 p.m. - 5:00 p.m. ROBERT J. LEFKOWITZ DISTINGUISHED LECTURE
Structural Insights into the Dynamic Process of G Protein Coupled Receptor Activation
Brian Kobilka, MD, 2012 Nobel Laureate in Chemistry
Professor of Molecular and Cellular Physiology, Stanford University School of Medicine

5:00 p.m. - 5:05 p.m. CLOSING REMARKS - Raphael Valdivia, PhD

5:05 p.m. - 5:30 p.m. RECEPTION/ POSTER BROWSING