8:00 – 8:30 AM  Registration/Breakfast

8:30 – 8:45 AM  Opening Remarks – Stephen Ethier, Ph.D., Professor
Department of Pathology & Laboratory Medicine
Director, Center for Genomic Medicine

Presentations by previous CGM Grant Awardees

8:45 – 9:05 AM  Sang-Ho Kwon, Ph.D., Assistant Professor
Division of Nephrology
*Exosome-loaded microRNAs in kidney injury*

9:05 – 9:25 AM  Paula Ramos, Ph.D., Assistant Professor
Division of Rheumatology and Immunology
*Comprehensive identification of differentially methylated regions associated with systemic sclerosis in dermal fibroblasts from African-American patients*

9:25 – 9:45 AM  Jian Zhao, Ph.D., Assistant Research Professor (Dr. Betty Tsao lab)
Division of Rheumatology and Immunology
*The Identification of Risk Genes for Lupus*

9:45 – 10:05 AM  Millicent Peterseim, Ph.D., Associate Professor
Division of Ophthalmology/Storm Eye Institute
*Inherited Retinal Dystrophies in Costa Rica: A Collaboration of CGM, MUSC/Storm Eye Institute, and the National Children’s Hospital Costa Rica*

10:05 – 10:25 AM  Julie Hirschhorn, Ph.D., Assistant Professor
Department of Pathology and Laboratory Medicine
*Potential for Performing Liquid Biopsies at MUSC for Solid Tumors*

10:25 – 10:45 AM  W. Bailey Glen Jr., Ph.D., Staff Scientist II
Department of Pathology and Laboratory Medicine
*Bioinformatics Infrastructure*

10:45 – 11:00 AM  BREAK

11:00 – 12:00 PM  Keynote Speaker – Donald W. Bowden, Ph.D.
Director, Center for Diabetes Research
Associate Director, Center for Genomics and Personalized Medicine
Research Biochemistry
Wake Forest School of Medicine
Integration of Exome and Whole Genome Sequencing with Family-Based Methods to Identify Cardiometabolic Risk Variants

NOON – 1:00 PM  LUNCH – Round Table Discussion

Presentations by 2017 CGM Grant Awardees

1:15 – 1:25 PM  Carol Feghali-Bostwick, Ph.D., Professor
Division of Rheumatology and Immunology
Phenotypic Differences in Twins Discordant for Scleroderma

1:25 – 1:35 PM  Joe Schacht, Ph.D., Assistant Professor
Department of Psychiatry and Behavioral Sciences
A pilot study of DNA methylation as a pharmacogenetic predictor of treatment response in AUD

1:35 – 1:45 PM  Adriana Olar, M.D., Assistant Professor
Departments of Pathology and Laboratory Medicine & Neurosurgery
Genomic characterization of meningioma cell lines

1:45 – 1:55 PM  Alex Alekseyenko, Ph.D., Associate Professor
Department of Public Health Sciences
Regulation of the intestinal microbiome via tumor suppressive function of PTEN

2:00 – 2:15 PM  Bob Wilson, Ph.D., Research Associate Professor
Operations Director, Genomics Sequencing Core
Genomics Sequencing Core Update

2:15 – 2:35 PM  Gary Hardiman, Ph.D., Professor
Director, Bioinformatics Core
Center for Genomic Medicine Bioinformatics Updates & Future Plans

2:35 – 2:50 PM  David Neskey, M.D., Assistant Professor
Department of Otolaryngology – Head and Neck Surgery
Integrative genomic analysis identified Folate synthesis pathway as a driver of oncogenic p53 mutations in head and neck cancer

2:50 – 3:05 PM  Russell (Chip) Norris, Ph.D., Associate Professor
Department of Regenerative Medicine and Cell Biology
Genetic and Biological Odyssey for Heart Valve Disease

3:05 – 3:20 PM  Ramsay Camp, Ph.D., Associate Professor
Department of Surgery
The role of patient-derived models for rectal cancer precision medicine

3:20 – 4:00 PM  Cocktails/Snacks