Venue

The Complex Carbohydrate Research Center (CCRC) is housed in a 140,000 sq. ft. building at the edge of the University of Georgia campus. It houses 17 faculty groups with research devoted to various aspects of carbohydrate science. The CCRC is home to the UGA Cancer Center and four federally designated centers for carbohydrate research. The CCRC also provides analytical services and laboratory training courses to scientists in academia and industry. The Center has a modern auditorium that seats 250. The campus itself is 70 miles from the Atlanta Airport. For more information on registration, visit the symposium website at: glycomics.ccrc.uga.edu/symposium/

We are grateful to Kofi Garbrah for designing the cover image.

Focus

The focus of this year’s symposium is broadly in the area of the glycobiology of immunology and infectious diseases, a research area that has seen remarkable growth over the last decade. We have invited world-class speakers who work in three areas: Microbiome, Virology/Vaccines, and Host/Pathogen interactions. Through this conference we seek to identify gaps in our understanding, stimulate discussion, and encourage collaboration in this exciting field, in particular between Georgia universities. We will also provide an opportunity for younger scientists (new investigators, graduate students and postdoctoral fellows) working in the areas of immunology and infectious diseases to have a forum to discuss their most recent data.

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APRIL 25, 2017

8:30-9:00 am  Registration and Continental Breakfast

9:00-9:05 am  Welcome
Alan Darvill, Director, Complex Carbohydrate Research Center, University of Georgia

Session 1: Microbiome

9:05 am  Introduction

9:10-9:55 am  “Bacterial glycosphingolipids modulate host intestinal homeostasis”
Dingding An, Professor of Pediatrics, Harvard Medical School, Boston Children’s Hospital

9:55-10:25 am  “Examining innate immune factors against molecular mimicry”
Sean Stowell, Assistant Professor of Pathology and Laboratory Medicine, Emory University School of Medicine

10:25-10:55 am  “Living in the fast lane of the GI tract: the Campylobacter story”
Christine Szymanski, Professor of Microbiology, Complex Carbohydrate Research Center, University of Georgia

10:55-11:05 am  Poster talk #1

11:05-11:15 am  Poster talk #2

11:15 am  Session Discussion

11:20 am-12:50 pm  Lunch and Poster Session

Session 2: Virology/Vaccines

12:50 pm  Introduction

12:55-1:40 pm  “Controlling glycan structures to improve the gp120 vaccine used in the RV144 HIV vaccine trial”
Phillip Berman, Professor of Biomolecular Engineering, University of California, Santa Cruz

1:40-2:10 pm  “Molecular determinants of Ebola virus pathogenesis”
Chris Basler, Georgia Research Alliance Eminent Scholar in Virology, Professor and Director of the Center for Microbial Pathogenesis, Georgia State University

2:10-2:40 pm  “Developing a broadly reactive influenza vaccine”
Ted Ross, Director, Center for Vaccines and Immunology, Professor of Infectious Diseases, University of Georgia

2:40-2:50 pm  Poster talk #3

2:50-3:00 pm  Poster talk #4

3:00 pm  Session Discussion

3:05-3:25 pm  Coffee break

Session 3: Host/Pathogen Interaction

3:25-4:10 pm  “Polysaccharide capsule synthesis in the fungal pathogen Cryptococcus neoformans”
Tamara Doering, Professor of Molecular Microbiology, Washington University of St. Louis

4:10-4:40 pm  “Pseudomonas aeruginosa LPS O antigen chain length control”
Joanna Goldberg, Professor, Department of Pediatrics, Emory University School of Medicine

4:40-5:10 pm  “Reversal of diet-induced metabolic disease by sugar therapy”
Donald Harn, Professor of Infectious Diseases, University of Georgia

5:10-5:20 pm  Poster talk #5

5:20-5:30 pm  Poster talk #6

5:30-5:35 pm  Session Discussion

5:35-6:15 pm  Symposium Reception