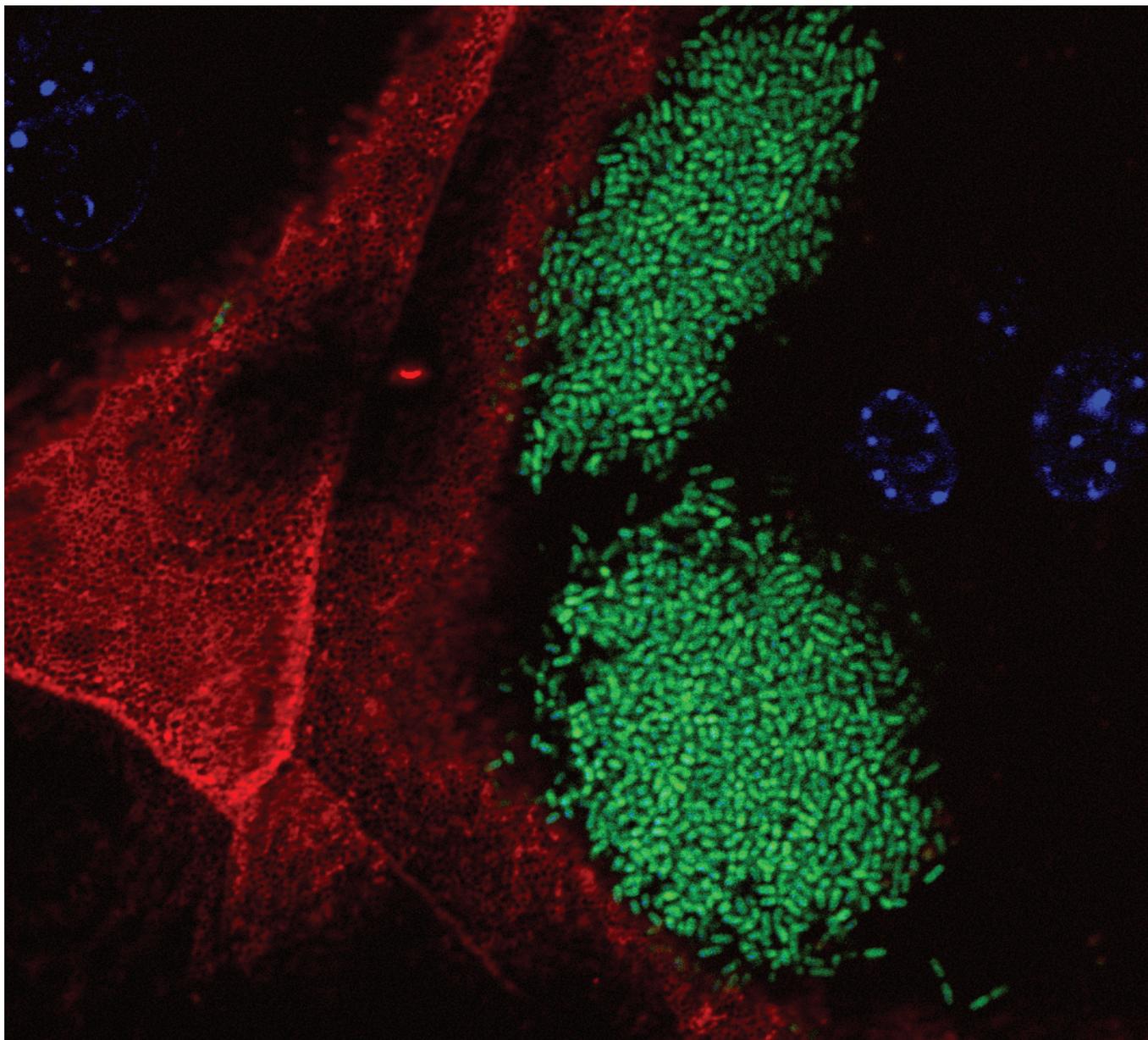


Clinical and Scientific Advances in Urinary Tract Infections



**Nationwide Children's Hospital
Columbus, Ohio
May 31- June 2, 2013**

Friday May 31, 2013

3:00 – 7:00 Registration

4:00 – 5:30 *Opening Reception*

5:30 – 5:45

Opening Remarks and Announcements

Steve Allen, M.D. M.B.A., CEO Nationwide Children's Hospital

Sheryl Justice, Ph.D., The Research Institute at Nationwide Children's Hospital, The Ohio State University

5:45 – 7:15

Opening Address

Molecular insights into the globally disseminated multidrug resistant uropathogenic *E.coli* ST131 clone.

Mark Schembri, Ph.D., The University of Queensland

Saturday, June 1, 2013

7:00 – 8:00 *Continental Breakfast*

Session I

8:00

John Barnard, M.D. Ann I. Wolfe Endowed Chair in Pediatric Research, President The Research Institute at Nationwide Children's Hospital

Plenary Address

8:00 – 8:30

Bacterial Pathoadaptation in Cystitis Pathogenesis: Take an Aspirin?

Scott Hultgren, Ph.D. Washington University School of Medicine in St. Louis

8:30 – 10:30

Molecular Mechanisms of UTI

Moderator: Rodney Welch, Ph.D., University of Wisconsin- Madison

TBA

Rodney Welch, Ph.D., University of Wisconsin- Madison

Gut Microbiome and Recurrent UTI

Swaine Chen, M.D., Ph.D., Genome Institute of Singapore

UPIIIa signaling

David Klumpp, Ph.D., Northwestern University Feinberg School of Medicine

Fishing for ExPEC Virulence Factors

Matt Mulvey, Ph.D., The University of Utah

10:30 – 10:45

Break

Session II
10:45 – 12:15

Host Responses and Immunity

Moderator: David Hunstad, M.D., Washington University School of Medicine in St. Louis

How *E. coli* battles local immunity in the bladder

David Hunstad, M.D., Washington University School of Medicine in St. Louis

Host response to toxins

Christy Ventura, Ph.D., Uniformed Services University of the Health Services

Host genetic determinants of immunity

Catharina Svanborg, M.D., Ph.D., Lund University

12:15 - 1:00

Lunch Break

1:00 – 2:30

Poster Session

Session III

2:30 -4:00

Platform Presentations (selected from submitted abstracts)

Moderator: Sheryl Justice, Ph.D., The Research Institute at Nationwide Children's Hospital, The Ohio State University

Sponsors: Nephrology-Urology Research Affinity Group, Nationwide Children's Hospital

Center for Women's Infectious Disease Research, Washington University School of Medicine in St. Louis

CD55 complement-protective epitopes and CD55-microtubule complexes aid the molecular mechanism of invasion and intracellular persistence of uropathogenic *E.coli*

Bogdan J. Nowicki, Departments of Microbiology and Immunology, Obstetrics and Gynecology, Meharry Medical College

Rho-kinase inhibition and WAVE2-dependent actin polymerization downstream of β 1 integrin receptors promote host cell invasion by uropathogenic *E. coli*

Elizabeth M. Ott, Pathology Department, Division of Microbiology and Immunology, University of Utah

An evolutionarily conserved event for promoting pathogenic traits in *E.coli*

J. Paul Norton, Division of Microbiology and Immunology, Department of Pathology, University of Utah

A male murine model of urinary tract infection identifies sex differences during infection

Patrick D. Olson, Department of Pediatrics, Washington University School of Medicine

Understanding UPEC QseBC as a target for drug development
Maria Hadjifrangiskou, Department of Pathology, Microbiology & Immunology,
Vanderbilt University School of Medicine

Session IV
4:00 – 5:30

Urinary Tract Infection in Children

Moderator: Gil Rushton, M.D., Children's National Medical Center

Overview of pyelonephritis, VUR and risk factors for renal scarring

Gil Rushton, M.D., Children's National Medical Center

Bladder/bowel dysfunction in children with recurrent UTI

Rama Jayanthi, M.D., Nationwide Children's Hospital

Evolving role of antibiotic prophylaxis in the management of childhood UTIs

Ranjiv Matthews, M.D., Johns Hopkins Hospital

Urinary microbiome and bacterial virulence

Hans Pohl, M.D., Children's National Medical Center

Sponsor: Children's National Medical Center

5:30

Adjourn (Dinner on your own)

Sunday, June 2, 2013

7:00 -8:00

Continental Breakfast

Session V

8:00 – 9:30

Novel Therapeutic Approaches to UTI

Moderator: Thomas "Mac" Hooton, M.D., University of Miami Health System

Vaccine candidates and targets

Harry Mobley, Ph.D., University of Michigan Medical School

Small-molecule virulence inhibitors

Jim Janetka, Ph.D., Washington University in St. Louis

Antibiotic therapies and resistance

Kalpana Gupta, M.D., M.P.H., Boston University School of Medicine

9:30 – 9:45

Break

Session VI

9:45 – 11:00

Clinical Issues in UTI

Moderator: Betsy Foxman, M.D., M.P.H., University of Michigan, School of Public Health

The Epidemiology of UTI

Betsy Foxman, Ph.D., M.S.P.H., University of Michigan, School of Public Health

Probiotic approaches to therapy

Ann Stapleton, M.D., University of Washington

Optimizing Management of Asymptomatic Bacteriuria

Barbara Trautner, M.D., Ph.D., F.I.D.S.A., Baylor College of Medicine

11:00 -12:00

Plenary Address

Revolutionizing Urological Diagnostic Microbiology

Bernard Churchill, M.D., UCLA

12:00 -12:10

Closing Remarks and Adjournment