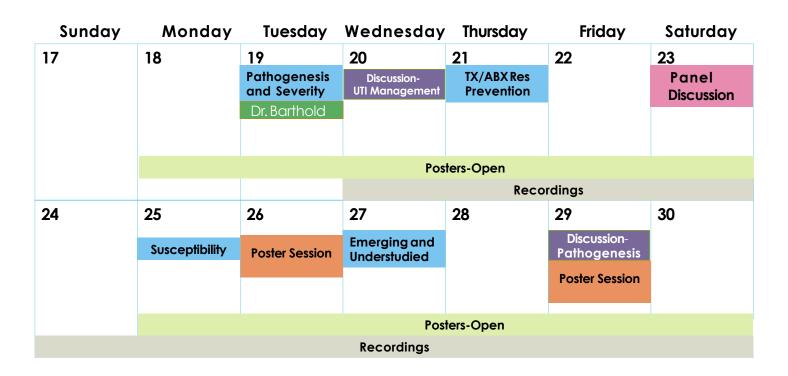
4th Clinical and Scientific Advances in Urinary Tract Infections

July 19-29, 2022 Meet us in Gather.town



Images of the two plates of swarming *Proteus mirabilis* were kindly provided by Dr. Melanie Pearson, University of Michigan.

Conference at a glance



Session 1: Tuesday July 19, 2022 Location: East and West Keynote Rooms

9:00 – 9:10 am	Welcome, Opening Remarks and Announcements Mark Schembri, Professor, The University of Queensland	
KEYNOTE		
9:10 – 9:40 am	UNDERSTANDING IMMUNITY TO UTI Molly Ingersoll, PhD, Institut Cochin & Institut Pasteur	
	UTI PATHOGENESIS AND SEVERITY	
9:40 – 10:10 am	SUBVERSION OF MITOCHONDRIAL METABOLISM SUPPORTS INTRACELLULAR BACTERIAL PATHOGENESIS DURING UTI Maria Hadjifrangiskou, PhD, Vanderbilt University	
10:10 – 10:20 am	CELL-SPECIFIC INSULIN RECEPTOR DELETION DISRUPTS UROTHELIAL BARRIER INTEGRITY INCREASING UTI SUSCEPTIBILITY Kristin Bender, The Abigail Wexner Research Institute at Nationwide Children's	
10:20 – 10:40 am	BREAK	
10:40 – 11:00 am	NERVE-DRIVEN IMMUNITY DURING KIDNEY INFECTION Keira Melican, PhD, Karolinska Institutet	
11:00 – 11:30 am	MOVIN' ON UP: BLADDER TO KIDNEY TO BLOODSTREAM Harry Mobley, PhD, University of Michigan	
11:30 – 11:40 am	TRANSCRIPTOME PROFILING OF UROPATHOGENIC ESCHERICHIA COLI IN RESPONSE TO INFECTION-RELEVANT STRESS Minh-Duy Phan, PhD, University of Queensland	
11:40 – 11:50 am	CATHETERIZATION-INDUCED FIBRIN ACCUMULATION PROMOTES M2 MACROPHAGE POLARIZATION TO PROMOTING BACTERIAL COLONIZATION Armando Marrufo, University of Notre Dame	
CAREER DEVELOPMENT		
11:50 – 12:30 pm	GRANT WRITING Julie Barthold, MD, National Institutes of Health	

UTI Hour Discussion Group: Wednesday July 20, 2022

Location: East Keynote Room

CLINICAL MANAGEMENT OF UTI

10:00 - 11:30 am

Larissa Grigoryan, MD, Baylor College of Medicine Barbara Tratuner, MD, Baylor College of Medicine

Session 2: Thursday July 21, 2022 Location: East and West Keynote Rooms

	Moderator Ann Stapleton, Professor, University of Washington	
KEYNOTE		
9:00 – 9:30 am	TBN Hans Pohl, MD, Children's National Hospital	
	TREATMENT AND PREVENTION OF UTI	
9:30 – 9:50 am	THE ROLE OF THE GUT MICROBIOME ON SUSCEPTIBILITY TO RECURRENT UTIS Colin Worby, PhD, Broad Institute	
9:50 – 10:00 am	CDC MEASURES OF CAUTI ARE NOT RELIABLE IN PEOPLE WITH SPINAL CORD INJURY Alexa Ryder, UTHealth Houston's McGovern Medical School	
10:00 – 10:10 am	HARNESSING POLYMICROBIAL INTERACTIONS IN THE CATHETERIZED URINARY TRACT TO IDENTIFY NOVEL INHIBITORS OF PROTEUS MIRABILIS UREASE ACTIVITY Beryl Guterman, University of Buffalo	
10:10 – 10:30 am	BREAK	
10:30 – 11:00 am	NEW CLASS OF RING-FUSED 2-PYRIDONES WITH BACTERICIDAL ACTIVITY AGAINST NON-DIVIDING ENTEROCOCCAL CELLS AND SYNERGISTIC EFFECTS WITH STANDARD-OF-CARE ANTIBIOTICS Taylor Nye, PhD, Washington University in St. Louis	
11:00 – 11:20 am	MICROENGINEERED MODELS TO STUDY UTIS John McKinney, PhD, Swiss Federal Institute of Technology in Lausanne	
11:20 – 11:30 am	TREATMENT WITH RECOMBINANT INTERLEUKIN-22 PROTECTS AGAINST UROPATHOGENIC ESCHERICHIA COLI-INDUCED KIDNEY INFECTION IN MICE Malcolm Starkey, MD, Monash University, Australia	

Panel Discussion: Saturday, July 23, 2022 Location: East and West Keynote Rooms

Moderator:

Christina Ching, MD, Associate Professor The Abigail Wexner Research Institute at Nationwide Children's Hospital

KEYNOTE

9:00 – 9:30 am A RETROSPECTIVE VIEW OF THE CHANGING LANDSCAPE OF UTIS

Thomas "Mac" Hooton, MD, Professor Emeritus

UTIGA Survey Results

9:45 – 10:00 am **EYE-OPENING PATIENT PERSPECTIVES ON UTIS AND A WAY FORWARD**Marissa Valentine-King, MD, Baylor College of Medicine

PANEL DISCUSSION

10:00 – 10:50 am INTRODUCTION TO PANELISTS
Panel Members

Douglass Clayton, MD, Vanderbilt University

Suzanne Groah, MD, Georgetown University

Elizabeth Lucas, MD, Nationwide Children's Hospital

Lona Mody, MD, University of Michigan

Kate Moore, MD, University of New South Wales

10:55 – 11:10 am **BREAK**

11:10 – 12:00 pm **Panel Discussion**

Session 4: Monday July 25, 2022 Location: East and West Keynote Rooms

	Moderator Chelsie Armbruster, Associate Professor, University of Buffalo		
KEYNOTE			
9:00 – 9:30 am	NEW GENOMIC APPROACHES TO UNDERSTANDING UPEC VIRULENCE <i>Swaine Chen, MD/PhD,</i> National University of Singapore and Genome Institute of Singapore		
UTI SUSCEPTIBILITY			
9:30 – 9:50 am	HOST AND MICROBIAL FACTORS CONTRIBUTING TO UTI-ASSOCIATED PRETERM BIRTH IN AN IN VIVO MODEL. Kathryn Patras, PhD, Baylor College of Medicine		
9:50 – 10:00 am	THE TAXONOMIC ECOLOGY AND FUNCTIONAL POTENTIAL OF THE UROBIOME IS SHAPED BY RECURRENT UTI AND ESTROGEN IN POSTMENOPAUSAL WOMEN Michael Neugent, PhD, The University of Texas at Dallas		
10:00 – 10:10 am	RELAPSING URINARY TRACT INFECTION AND BACTERIAL RESILIENCE IN KIDNEY TRANSPLANT RECIPIENTS Thuvaraka Ware, MSc, University College London		
10:10 – 10:30 am	BREAK		
10:30 – 11:00 am	NEW FRONTIERS IN THERAPEUTIC REGIMENS FOR TREATMENT AND MITIGATION OF UTIS Indira Mysorekar, PhD, Baylor College of Medicine		
11:00 – 11:20 am	TBD Teri Hreha, PhD, Washington University in St. Louis		
11:20 – 11:30 am	GARDNERELLA COVERT PATHOGENESIS: CONSEQUENCES FOR BLADDER GENE EXPRESSION, UROTHELIAL TURNOVER AND UPEC UTI Nicole Gilbert, PhD, Washington University in St. Louis		
11:30 – 12.00 pm	INTERCALATED CELLS, GUARDIANS OF THE KIDNEY AGAINST ASCENDING PYELONEPHRITIS Andrew Schwaderer, MD, Indiana University		

Poster Session: Tuesday July 26, 2022

Location: Poster Rooms
Noon to 2:00 PM EDT

Please join us in Gather.town to learn about all of the cutting-edge investigations. Follow the UTIGA logo to the poster rooms. We have 81 posters to visit and this is the first of two formal sessions to meet the presenter and hear about their work. The posters are "private areas" and will give you the opportunity to see the poster and directly interact with the presenter. If you need more time, feel free to email the presenter and set up a time at your convenience.

Session 5: Wednesday July 27, 2022 Location: East and West Keynote Rooms

	Moderator Sheryl Justice, Associate Professor, The Ohio State University	
KEYNOTE		
9:00 – 9:30 am	TO DO OR NOT TO DO IN DIAGNOSTICS AND TREATMENT OF UTI Suzanne Geerlings, MD, Academisch Medisch Centrum Universiteit van Amsterdam	
	EMERGING AND UNDERSTUDIED UTI	
9:30 – 9:50 am	DEFICIENCIES IN THE FIBRINOLYTIC SYSTEM PREDISPOSES THE HOST TO DEVELOP A CATHETER-ASSOCIATED UTI Ana Flores-Mireles, PhD, Notre Dame University	
9:50 – 10:00 am	CATHETERIZATION TRIGGERS RESURGENT INFECTION SEEDED BY HOST ACINETOBACTER BAUMANNII RESERVOIRS Jennie Hazen, Washington University in St. Louis	
10:00 – 10:20 am	BREAK	
10:20 – 10:50 am	TBD Glen Ulett, PhD, Griffith University	
10:50 – 11:00 am	COMPARATIVE GENOMICS OF PROTEUS MIRABILIS STRAINS IN RELATION TO KIN DISCRIMINATION PHENOMENON Dawid Gmiter, PhD, Jan Kochanowski University in Kielce	
11:00 – 11:20 am	S. AUREUS CLINICAL ISOLATES CHRONICALLY COLONIZING INDWELLING URINARY CATHETERS EXHIBIT ALTERED UREASE ACTIVITY	
	Jennifer Walker, PhD, UTHealth Houston's McGovern Medical School	
11:20 – 11:30 am	ORGAN AGAR REVEALS PHYSIOLOGICALLY RELEVANT URINARY FITNESS FACTORS FOR <i>PROTEUS MIRABILIS</i> Melanie Pearson, PhD, University of Michigan	
11:30 – 11:50 am	GENOMIC ANALYSES TO IDENTIFY DRIVERS OF GROUP B STREPTOCOCCAL VAGINAL COLONIZATION Lindsey Burcham, PhD, University of Tennessee Knoxville	

UTI Hour Discussion Group: Wednesday July 29, 2022

Location: East Keynote Room

9:00 – 11:00 am Poster Session

PATHOGENESIS OF UTI

11:00 – 12:30 pm Ana Flores-Mireles, PhD, Notre Dame University

IMPROVE YOUR KNOWLEDGE: LEARN ABOUT KIDNEY DEVELOPMENT

12:30 – 1:30 pm Ashely Jackson, PhD, The Abigail Wexner Research Institute at Nationwide

Children's

