

HEALTHCARE INNOVATION SYMPOSIUM XXIV



HOW PRECISION MEDICINE CAN HELP EVERYONE

Antony Rosen, MBChB, MD

Vice Dean for Research and Professor of Medicine

Johns Hopkins Medicine

Tuesday, December 4, 2018

12:00 to 2:00 pm

Emory University School of Medicine Auditorium



EMORY
UNIVERSITY



Healthcare
Innovation Program





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How Precision Medicine Can Help Everyone

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Emory University School of Medicine Auditorium

Featuring: Antony Rosen, MBChB, MD
Vice Dean for Research and Professor of Medicine
Johns Hopkins Medicine

12:00 pm

Welcome, Introductions

Fred Sanfilippo, MD, PhD
Director, Emory-Georgia Tech Healthcare Innovation Program

12:05 - 12:45 pm

Keynote Presentation

How Precision Medicine Can Help Everyone

Antony Rosen, MBChB, MD
Vice Dean for Research and Professor of Medicine
Johns Hopkins Medicine

12:45 - 1:30 pm

Panel Presentations

Greg Martin, MD, MSc
Director, Predictive Health Institute
Director, Georgia CTSA Clinical Research Centers
Emory University

Sandra Dunbar, RN, PhD
Senior Associate Dean for Academic Advancement
Charles Howard Candler Professor
Nell Hodgson Woodruff School of Nursing, Emory University

Michael E. Zwick, PhD
Assistant Vice President for Research,
Robert W. Woodruff Health Sciences Center

Eberhard Volt, PhD
Professor and David D. Flanagan Chair
Georgia Research Alliance, Eminent Scholar in Systems Biology
Wallace H. Coulter Department of Biomedical Engineering
Georgia Tech & Emory University

1:30 - 2:00 pm

Panel Discussion, Q&A



Antony Rosen, MBChB, MD
Vice Dean for Research
Mary Betty Stevens Professor of Medicine,
Pathology and Cell Biology
Director, Division of Rheumatology
Johns Hopkins School of Medicine
Co-Director, inHealth
Johns Hopkins Medicine

Dr. Rosen is the Mary Betty Stevens Professor of Medicine, Pathology and Cell Biology, Director of the Division of Rheumatology, Vice Dean for Research at the Johns Hopkins School of Medicine, and Co-Director of inHealth, the Johns Hopkins program in precision medicine and individualized health.

Dr. Rosen received his medical degree from the University of Cape Town in South Africa in 1984. After completing his internship in Medicine and Surgery, he pursued postdoctoral studies in Immunology at the Rockefeller University in New York (1987-1990). Drawn by a desire for a deeper understanding of human inflammatory diseases, he returned to clinical medicine, and was an Osler resident and rheumatology fellow at Johns Hopkins Hospital (1990-1994). He subsequently joined the faculty at Johns Hopkins in 1995, and rose to the rank of Professor in 2002. He has been Director of the Division of Rheumatology since then, overseeing a substantial expansion of the Division. The Division became the #1 ranked Rheumatology Division by USNWR in 2005, and has remained in that position since.

His research focuses on autoimmunity in the rheumatic diseases, using subgroups of patients with distinct phenotypes, trajectories and specific autoimmune responses to define molecular mechanisms.



Greg Martin, MD, MSc
Director, Predictive Health Institute
Director, Georgia CTSA Clinical Research Centers
Professor of Medicine
Emory University School of Medicine

Greg S. Martin, MD, MSc, is Professor of Medicine at Emory University and the Executive Associate Director for the Division of Pulmonary, Allergy, Critical Care and Sleep Medicine. Dr. Martin completed his undergraduate studies at

Duke University; medical school, residency and subspecialty fellowship training were completed at Vanderbilt University and a post-graduate Master of Science degree at Emory University. Dr. Martin serves as the Director of Research for the Emory Critical Care Center (ECCC), Director of the Emory/Georgia Tech Predictive Health Institute and the affiliated Center for Health Discovery and Well Being, and the Director of the multi-institutional Clinical Research Centers network within the NIH-funded Georgia Clinical and Translational Science Alliance (Georgia CTSA). At Grady Memorial Hospital, Dr. Martin is the Associate Section Chief for Pulmonary, Allergy, Critical Care and Sleep Medicine and the chair of the Critical Care Committee.

Dr. Martin's research includes clinical and translational research in critically ill patients, with his primary interests being in sepsis, organ dysfunction syndromes and acute respiratory distress syndrome (ARDS). Dr. Martin has conducted work that spans epidemiology and health services research through biomarker trials to randomized, controlled treatment trials in critically ill patients. In his roles for both the Division and the ECCC, Dr. Martin helps to coordinate critical care research at Emory, including the Emory Program in Critical Care.

Dr. Martin is a member of several professional and academic societies and serves as Secretary on the Executive Committee of the Society of Critical Care Medicine. He is a highly sought-after speaker at local, national, and international medical conferences and has authored hundreds of research articles, editorials, book chapters, abstracts, and web articles. Of his many awards and honors, Dr. Martin has received the Golden Apple teaching award from Emory University, the Golden Stethoscope award from Emory Healthcare, and has been designated a Master Clinician by the Emory University Department of Medicine.



Sandra B. Dunbar, RN, PhD, FAAN, FAHA, FPCNA
Senior Associate Dean for Academic Advancement and
Charles Howard Candler Professor
Nell Hodgson Woodruff School of Nursing
Emory University

Dr. Dunbar is the Senior Associate Dean of Academic Advancement and the Charles Howard Candler Professor of Cardiovascular Nursing at the Emory University's Nell Hodgson Woodruff School of Nursing. She has focused her program of research on improving outcomes for complex cardiovascular patients and their families. With interdisciplinary colleagues, she has led NIH, AHA and other funded clinical trials that developed and tested interventions to improve self-care and quality of life, reduce cardiovascular risk and psychosocial distress in both CV patients and their family caregivers, and create cost-effective approaches that reduce health resource use. She has successfully mentored doctoral students, postdoctoral trainees, and junior faculty, and has served as the Director of a T32 on Improving outcomes in Chronic Conditions. She has also served as the Training Director for the AHA funded SFRN Emory-Morehouse Center for Cardiovascular Health Disparities (MECA).

Dr. Dunbar's leadership spans multiple professional nursing organizations: she has served as Chair of the Council of Cardiovascular and Stroke Nursing of the American Heart Association (AHA), chair of the Nursing Council of the Heart Failure Society of America, and President of the American Association of Critical Care Nurses, and she is on the Board of Directors of the Preventive Cardiovascular Nursing Association. She holds fellowships in the AHA, the American Academy of Nursing, and PCNA. She has published widely in nursing and interdisciplinary journals and has presented her work at local, national, and international scientific meetings.



Michael E. Zwick, PhD
Assistant Vice President for Research
Robert W. Woodruff Health Sciences Center
Associate Professor
Department of Human Genetics and Pediatrics
Emory University School of Medicine

Dr. Zwick is the Assistant Vice President for Research of the Robert W. Woodruff Health Sciences Center at Emory University and the Assistant Dean of Research

and Associate Professor of Human Genetics and Pediatrics in the Emory University School of Medicine. Trained as an experimental population geneticist in both the *Drosophila* and human systems, his research uses principles of genetics to discover the causes of rare and common disorders. He is the PI of the All of Us Research Program that is recruiting a million person cohort to advance the goals of precision medicine. He is a current member of the NIAID Microbiology and Infectious Diseases B (MID-B) grant review study section. As AVP for Research in the Robert W. Woodruff Health Sciences Center, he leads the Emory Integrated Core Facilities (EICF, <http://cores.emory.edu>), which includes 16 core facilities and the Division of Animal Resources. The EICF workforce includes 135 scientists and technical staff and directly supports Emory researchers with annual external research funding exceeding 628 million dollars.

Dr. Zwick is a former surface warfare qualified officer in the United States Navy (Commander, O-5) who retired in June 2017 with 25 years of service. Dr. Zwick served onboard the USS KAUFFMAN (FFG 59) for 38 months and is a veteran of Desert Storm. He was recalled to active duty in support of the Iraq and Afghanistan war efforts from November 2002 through November 2004, when he was engaged with placing biodefense technologies in the United States Navy fleet and formulating and implementing national biodefense strategies.



Eberhard Voit, PhD
Professor and David D. Flanagan Chair
Georgia Research Alliance
Eminent Scholar in Systems Biology
Wallace H. Coulter Department of Biomedical Engineering
Georgia Tech College of Engineering
Emory University School of Medicine

Dr. Eberhard O. Voit is a Professor in the joint Department of Biomedical Engineering at Georgia Tech College of Engineering and Emory University School of Medicine. He is a Georgia Research Alliance Eminent Scholar and the David D. Flanagan Chair in Biological Systems.

Dr. Voit studied at Cologne University, Germany, where he received Master's degrees in biology and mathematics and a Ph.D. in developmental and theoretical biology. He held research and faculty positions at the University of Michigan, the Medical University of South Carolina in Charleston, and at the Cooperative Research Centre for Forestry in Tasmania, Australia. In 2004, he joined Georgia Tech and Emory. Voit's research interests are in the area of complex biomedical systems. Work in his lab presently focuses on genomic, metabolic, and signaling systems with applications reaching from microbial and plant systems to human diseases.

Voit has authored or co-authored some three hundred scientific articles and book chapters as well as several books, two of which have been translated in Chinese and one into Korean. His most recent book "The Inner Workings of Life," is an introduction to systems biology for educated non-experts. Voit is an elected fellow in the American Association for the Advancement of Science (AAAS), the American Institute for Medical and Biological Engineering (AIMBE) and the Society for Mathematical Biology (SMB). He was also recently inducted into the Royal Society of Medicine of the United Kingdom as an Overseas Fellow.



Fred Sanfilippo MD, PhD
**Director, Emory-Georgia Tech Healthcare
Innovation Program**
Professor, Pathology & Laboratory Medicine
Health Policy & Management
Emory University

Fred Sanfilippo, MD, PhD directs the Emory-Georgia Tech Healthcare Innovation Program, which has a mission to accelerate innovation in health systems science research, education, and service. For over 30 years he has been an academic leader at Duke, Johns Hopkins, Ohio State and Emory; serving as a division chief, department chair, program/center director, dean, medical center CEO, university senior/executive VP, health system board chair and academic health center CEO. During that time he has led organizational and cultural changes yielding improved academic, clinical, and financial performance at each institution. He also led the creation of the US Scientific Registry of Transplant Recipients; Johns Hopkins Medical Labs; a personalized health plan (YP4H) at OSU; and novel departments and centers in areas ranging from biomedical informatics to personalized and integrative health.

Sanfilippo received his BA and MS in physics from the University of Pennsylvania, and his MD and PhD in immunology from Duke, where he also did his residency training, receiving board certification in Anatomic & Clinical Pathology, and Immunopathology.



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