7TH ANNUAL RESEARCH & EDUCATION WEEK
APRIL 24 – 28, 2017
COLLABORATION LEADS TO INNOVATION
EXECUTIVE SPONSORS

Mendel Tuchman, MD, Chief Research Officer, Scientific Director, Children’s Research Institute, Professor of Pediatrics, Biochemistry, Molecular Biology and Integrative System Biology, George Washington University School of Medicine and Health Sciences

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A special thank you to Conference Services, EVS, PR & Marketing, Security, and the Research and Education Week judges and volunteers! Thank you all for the support, time, talent, and expertise that you have given to make this event a success.
POSTER SESSIONS

Monday, April 24 – Wednesday, April 26 | 8:00am – 4:00pm, 1st floor, Main Atrium

Each day a selection of posters will be on display representing projects conducted by faculty, staff, nurses, fellows, trainees, and students reflecting a variety of themes with the categories of: Basic and Translational Science, Clinical Research, Community-Based Research, Education, Training, & Program Development, and Quality & Performance Improvement. Posters will change daily from Monday through Wednesday. Topics that will be represented across the three days include:

- Adolescent Medicine
- Allergy & Immunology
- Asthma and Respiratory
- Biochemistry
- Cancer, Immunology, Hematology, & Bone Marrow Transplantation (BMT)
- Cardiology & Cardiovascular Surgery
- Case Management
- Community Research
- Critical Care
- Dentistry
- Developmental & Intellectual Disabilities
- Diabetes
- Emergency Medicine & Trauma
- Endocrinology & Metabolic Disorders
- General Pediatrics
- Genetics, Genetic Predisposition, & Genetic Susceptibility
- Global Health
- Health Disparities
- Health Services
- Infectious Disease & HIV
- Imaging & Surgical Innovation
- Medical Education
- Muscle Physiology
- Muscular Dystrophy
- Neonatology
- Neurology, Epilepsy & Sleep Medicine
- Neuroscience & Neuroprotection
- Nursing Research and Quality Outcomes
- Nutrition, Obesity & Gastroenterology
- Palliative Care
- Psychology & Traumatic Brain Injury (TBI)
- Quality Improvement
- Safety & Risk Management
- Sports Medicine & Orthopedics
- Treatment Compliance and Adherence
- Other Themes

POSTER PRESENTATIONS

Monday, April 24 – Wednesday, April 26
1:00pm – 3:00pm, First Floor, Main Atrium

Presenting authors will stand with their posters during their poster session and will be available for questions and discussions regarding their projects.

For all event information including the full schedule of events please visit http://apps.ctsicn.org/ra.
### Monday, April 24

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| **10:00am**   | SPECIAL LECTURE “Differences/Disorders of Sex Development (DSD): A World of Uncertainty”  
Eric Vilain, MD, PhD, Incoming Director of the Center for Genetic Medicine Research, Children's National Health System, Chair of the Department of Integrative Systems Biology, George Washington University, Professor of Human Genetics and Pediatrics, Chief, Medical Genetics  
Co-director, Clinical Genomics Center UCLA School of Medicine.  
Available on WebEx | Continuing Medical Education (CME) credit provided |
| **12:00pm**   | KEYNOTE LECTURE “Zika: One Year Later”  
Anthony S. Fauci, MD, Director, National Institute of Allergy and Infectious Diseases (NIAID), Chief, NIAID Laboratory of Immunoregulation, National Institutes of Health  
Available on WebEx | Continuing Medical education (CME) credit provided |
| **1:00-3:00pm** | POSTER PRESENTATIONS  
Presenting authors will stand with their posters during their poster session and will be available for questions and discussions regarding their projects.  
Main Poster Themes:  
- Allergy and Immunology  
- Asthma and Respiratory  
- Biochemistry  
- Cancer, Immunology, Hematology, and Bone Marrow Transplantation (BMT)  
- General Pediatrics  
- Imaging and Surgical Innovation  
- Infectious Disease and HIV  
- Nutrition, Obesity, and Gastroenterology  
- Adolescent Medicine  
- Cardiology and Cardiovascular Surgery  
- Developmental and Intellectual Disabilities  
- Diabetes  
- Endocrinology and Metabolic Disorders  
- Pain and Pharmacology  
- Genetics, Genetic Predisposition, and Genetic Susceptibility  
- Muscle Physiology  
- Muscular Dystrophy  
- Neurology, Epilepsy, and Sleep Medicine  
- Neuroscience and Neuroprotection  
- Psychology and Traumatic Brain Injury (TBI) |
| **4:00pm**    | KEYNOTE LECTURE “Anticipating the Third Century of the NLM: The Role of Clinical Research in Driving Discovery from DATA”  
Patricia F. Brennan, RN, PhD, FAAN, Director, the National Library of Medicine, Interim Associate NIH Director for Data Science, National Institutes of Health, US Department of Health and Human Services  
Available on WebEx | Continuing Nursing Education (CNE) contact hours provided |

### Tuesday, April 25

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<th>Time</th>
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| **9:00-11:30am** | DC-IDDRC Symposium: Understanding Autism Genes, Circuits and Behaviors for Precision Medicine Treatments  
Organizers: Lauren Kenworthy, PhD and Josh Corbin, PhD  
For more information on this symposium, please view the DC-IDDRC page.  
Available on WebEx |
| **12:00pm**   | KEYNOTE LECTURE “A Causal Role for Defective Microglia in OCD-Spectrum Disorders”  
Mario R. Capecchi, PhD, Distinguished Professor of Biology and Human Genetics, Department of Human Genetics, University of Utah School of Medicine, Nobel Prize in Physiology or Medicine 2007  
Available on WebEx | Continuing Medical Education (CME) credit provided |
| **1:00-3:00pm** | POSTER PRESENTATIONS  
Presenting authors will stand with their posters during their poster session and will be available for questions and discussions regarding their projects.  
Main Poster Themes:  
- Adolescent Medicine  
- Cardiology and Cardiovascular Surgery  
- Developmental and Intellectual Disabilities  
- Diabetes  
- Endocrinology and Metabolic Disorders  
- Pain and Pharmacology  
- Genetics, Genetic Predisposition, and Genetic Susceptibility  
- Muscle Physiology  
- Muscular Dystrophy  
- Neurology, Epilepsy, and Sleep Medicine  
- Neuroscience and Neuroprotection  
- Psychology and Traumatic Brain Injury (TBI) |
**Wednesday, April 26**

**Medical Education and Global Health**

8:00am  
2nd floor (Main), Auditorium  
GRAND ROUNDS: LARRIE GREENBERG LECTURE  
“Diagnostic Error – The New Imperative”  
Mark L. Graber, MD, FACP, President, Society to Improve Diagnosis in Medicine, Senior Fellow, RTI International, Professor Emeritus, Stony Brook University, NY  
Available on WebEx | Continuing Medical Education (CME) credit provided

12:00pm  
2nd floor (Main), Auditorium  
KEYNOTE LECTURE  “The Immunizations Battle – Perspectives from a Public Health Guy”  
Boris D. Lushniak, MD, MPH, Dean, School of Public Health, University of Maryland, Former US Surgeon General of the United States  
Available on WebEx | Continuing Medical Education (CME) credit provided

1:00-3:00pm  
1st floor, Main Atrium  
POSTER PRESENTATIONS  
Presenting authors will stand with their posters during their poster session and will be available for questions and discussions regarding their projects.  
Main Poster Themes:  
- Case Management  
- Community Research  
- Critical Care  
- Dentistry  
- Emergency Medicine and Trauma  
- Global Health  
- Medical Education  
- Neonatology  
- Nursing Research and Quality Outcomes  
- Palliative Care  
- Quality Improvement  
- Safety and Risk Management

**Thursday, April 27**

**Award-winning and highest scored posters on display in the Main Atrium**

10:00am  
2nd floor (Main), Auditorium  
“How Can the CTSI-CN Support Your Project: Basic Science to Public Health Research?”  
Lisa M. Guay-Woodford, MD, Hudson Professor of Pediatrics, Associate VP for Clinical and Translational Research, The George Washington University, Director, Center for Translational Science, Director, CTSI-CN, Children’s National  
Available on WebEx | Continuing Medical Education (CME) credit provided

12:00pm  
2nd floor (Main), Auditorium  
KEYNOTE LECTURE  “Catalyzing Translational Innovation”  
Christopher P. Austin, MD, Director, National Center for Advancing Translational Sciences, National Institutes of Health  
Available on WebEx | Continuing Medical Education (CME) credit provided

2:00pm  
2nd floor (Main), Auditorium  
Awards Ceremony

3:00pm  
5th floor (Main), Research Atrium  
Research and Education Week Reception

**Friday, April 28**

**Nursing Research and Quality Outcomes**

Award-Winning and nursing posters on display in the Main Atrium  
For the full schedule, please view the Nursing Research and Quality Outcomes page.
Keynote and Special Lecturers

**Eric Vilain, MD, PhD**
Incoming Director of the Center for Genetic Medicine Research, Children's National Health System, Chair of the Department of Integrative Systems Biology, George Washington University, Professor of Human Genetics and Pediatrics, Chief, Medical Genetics Co-director, Clinical Genomics Center UCLA School of Medicine

Eric Vilain, MD, PhD, is professor of Human Genetics, Pediatrics in the David Geffen School of Medicine at UCLA, and the incoming director of the Center for Genetic Medicine Research at Children’s National Medical Center and Chair of the Department of Integrative Systems Biology at George Washington University. His laboratory explores the impact of genetic changes on human development in health and disease, and in particular the genetics of sexual development. He has published extensively in the fields of genetics and endocrinology. He is a Fellow of the American College of Medical Genetics, an advisor to the International Olympic Committee, and a member of the Board of Scientific Counsellors for the National Institute of Child Health and Human Development (NICHD).

**Anthony S. Fauci, MD**
Director, National Institute of Allergy and Infectious Diseases (NIAID), Chief, NIAID Laboratory of Immunoregulation, National Institutes of Health

Anthony S. Fauci, MD, is director of the National Institute of Allergy and Infectious Diseases (NIAID) at the U.S. National Institutes of Health, where he oversees an extensive research portfolio focused on infectious and immune-mediated diseases. He serves as one of the key advisors to the White House and Department of Health and Human Services on global HIV/AIDS issues, and on initiatives to bolster medical and public health preparedness against emerging infectious disease threats. He is the winner of numerous prestigious awards including the Presidential Medal of Freedom, the National Medal of Science and the Lasker Award for Public Service.

**Patricia F. Brennan, RN, PhD, FAAN**
Director, National Library of Medicine, Interim Associate NIH Director for Data Science, National Institutes of Health, US Department of Health and Human Services

Patricia F. Brennan, RN, PhD, FAAN, came to NLM in August 2016 from the University of Wisconsin-Madison, where she was a professor at the School of Nursing and College of Engineering. She is a pioneer in the development of innovative information systems and services, such as ComputerLink, an electronic network designed to improve the lives of home care patients and increase their independence. She directed HeartCare, a web-based information service that helps home-dwelling cardiac patients recover faster, with fewer symptoms, and Project Health Design, an initiative designed to stimulate the next generation of personal health records. A past president of the American Medical Informatics Association, Dr. Brennan was elected to the Institute of Medicine in 2001. She is a fellow of the American Academy of Nursing, the American College of Medical Informatics, and the New York Academy of Medicine.
Mario R. Capecchi, PhD, was born in Verona, Italy, in 1937. He received his Bachelor of Science degree in chemistry and physics from Antioch College in 1961 and his Ph.D. in biophysics from Harvard University in 1967. After six years on the Harvard School of Medicine faculty he joined the University of Utah as a professor of biology in 1973. Dr. Capecchi is known for his work on the development of gene targeting in mouse embryo-derived stem cells creating mutations in any desired gene and giving freedom to manipulate the DNA sequence. In 2007, he won the Nobel Prize in physiology or medicine for this research, which he shared with Oliver Smithies and Martin Evans. His current research interests include the molecular genetic analysis of early mouse development and production of mouse models of human genetic diseases.

Mark L. Graber, MD, FACP is a national leader in the field of patient safety and originated the internationally-recognized Patient Safety Awareness Week in 2002. He is also a pioneer in efforts to address diagnostic errors in medicine, originating the Diagnostic Error in Medicine conference series, founding the Society to Improve Diagnosis in Medicine, and launching a new journal, DIAGNOSIS, devoted to improving the quality and safety of diagnosis, and reducing diagnostic error. Dr. Graber is a Senior Fellow at RTI International, Professor Emeritus, Stony Brook University, NY.

Boris D. Lushniak, MD, MPH (RADM, ret.), became dean of the University of Maryland School of Public Health in January 2017. He most recently served as chair of Preventive Medicine in the Uniformed Services University of the Health Sciences, after 27 years in the United States Public Health Service, including as Surgeon General (Acting, 2013-2014). He prides himself on being accessible to students and energizing people around the mission and values of public health. His goals as dean of the UMD School of Public Health include expanding student engagement in public health practice and influencing healthy public policy.

Christopher P. Austin, MD, is director of the National Center for Advancing Translational Sciences (NCATS) at the National Institutes of Health (NIH). NCATS’ mission is to enhance the development, testing and implementation of diagnostics and therapeutics across a wide range of human diseases and conditions. The Center collaborates with other government agencies, industry, academia and the nonprofit community. Before joining NIH in 2002, Austin directed research and drug development programs at Merck, with a focus on schizophrenia. His earned his M.D. from Harvard Medical School, and completed clinical training at Massachusetts General Hospital and a research fellowship in genetics at Harvard.
Celebrating the 50th Anniversary of the INTELLECTUAL DEVELOPMENTAL DISABILITIES RESEARCH CENTERS (IDDRCs)

TUESDAY, APRIL 25, 2017

The DC-IDDRC presents the Symposium “Understanding Autism Genes, Circuits and Behaviors for Precision Medicine Treatments”

Organizers: Lauren Kenworthy, PhD  
Professor of Pediatrics, Neurology, Psychiatry and Behavioral Sciences, University of California, San Francisco  
Joshua Corbin, PhD  
Associate Professor/Principal Investigator, Center for Neuroscience Research

9:00-11:30am, 2nd floor (Main), Auditorium

Heather Cody Hazlett, PhD  
Assistant Professor  
Carolina Institute for Developmental Disabilities  
Department of Psychiatry, University of North Carolina School of Medicine  
“Understanding Early Brain Development in Autism: What Have We Learned and Where Are We Headed?”

Chandan Vaidya, PhD  
Professor and Chair  
Department of Psychology, Georgetown University  
“Functional Connectivity Networks Subserving Executive Function in Autism Spectrum Disorders”

Mark J. Zylka, PhD  
Professor and Director  
Jeffrey Houpt Distinguished Investigator  
University of North Carolina Neuroscience Center  
“Exploiting Genetics to Identify Environmental Risks for Autism”

Kevin Archer Pelphrey, PhD  
Carbonell Family Professor and Director  
Autism & Neurodevelopmental Disorders Institute  
George Washington University and Children’s National Health System  
“Towards Precision Treatments for Autism Spectrum Disorders”

12:00-1:00pm, 2nd floor (Main), Auditorium

Keynote Lecture

Mario R. Capecchi, PhD, Distinguished Professor of Biology and Human Genetics, Department of Human Genetics, University of Utah School of Medicine, Nobel Prize in Physiology or Medicine 2007  
“A Causal Role for Defective Microglia in OCD-Spectrum Disorders”

Dr. Capecchi’s Lecture is sponsored by District of Columbia Intellectual Developmental Disabilities Research Center (DC-IDDRC), to celebrate the 50th Anniversary of the IDDRCs.

MISSION OF DC-IDDRC

Funded since 2001, the mission of the District of Columbia Intellectual and Developmental Disabilities Research Center (DC-IDDRC) is to expand our understanding of the causes underlying intellectual and developmental disabilities (IDD), develop innovative therapies, and prevent or attenuate the full effects of these disorders, so that each child can achieve her/his full physical and intellectual potential.

ABOUT DC-IDDRC

The DC-IDDRC includes four collaborating DC academic medical centers (Children’s National Health System (lead), George Washington University, Howard University, and Georgetown University) to draw intellectual and core resources from neighboring institutions to help meet its ambitious research mission and create a truly integrated DC-IDDRC. The DC-IDDRC is dedicated to improving the lives of individuals with intellectual and developmental disabilities (IDDs) and their families by creating a strong translational research environment optimized for studying and defining the basic causes and mechanisms underlying IDDs, and designing new effective treatments and prevention strategies. Our DC-IDDRC is strongly focused on building and supporting collaborations among investigators from the four institutions who are studying IDDs by using different experimental approaches, and by partnering with the community to ensure that scientific discoveries will benefit affected individuals. Our center is built of over 15 years of collaborative and dedicated IDD research among the participating institutions to create an integrated academic center for all investigators engaged in IDD research in the District of Columbia.
# Nursing Research and Quality Outcomes

Research and Education Week celebrates Nursing Research and Quality Outcomes with dynamic presentations, interactive learning and technology demonstrations that show where the future is taking us.

## Monday, April 24

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| 4:00-5:00pm | **KEYNOTE LECTURE. “Anticipating the Third Century of the National Library of Medicine: The Role of Clinical Research in Driving Discovery from DATA”**  
Patricia Flatley Brennan, RN, PhD, FAAN, Director, National Library of Medicine, Interim Associate NIH Director for Data Science, National Institutes of Health, US Department of Health and Human Services  
Attendees of this session will be able to describe how clinical research is influencing data-driven discoveries. | 2nd floor (Main), Bear Institute Innovation Center |
| 5:00-6:00pm | **Nursing Reception**                                                             | 2nd floor (Main), Bear Institute Innovation Center |

## Friday, April 28

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| 7:30-8:45am| **Registration, Networking, Coffee Passport to Events and Poster Presentations – Roving Reporters (During Poster Presentations)**  
Share your reactions, impressions, and messages with a “roving reporter” from Shared Nursing Leadership, Quality and Research Council. Learn about new and developing ideas and join the debate about the effectiveness of different discovery approaches. | 1st floor, Main Atrium |
| 8:45-9:45am| **Panel Presentation: “Anatomy and Physiology of Patient Satisfaction”**          | 2nd floor (Main), Auditorium                  |
|            | Learn about methods used to collect the three voices of satisfaction: the child voice, the family voice, and the nurse’s voice. |                                           |
| 10:00-11:00am| **“Rapid-Fire Presentations”**          | 1st floor, Main Atrium                           |
|            | Come see your colleagues share in ten minutes or less the highlights of their projects and participate with them in a lively on stage “Rapid-Fire” presentation and discussion.  
Research, Quality, Research Translation, CONE (Culture of Nursing Care Excellence) Team, Safety Champions, and PNCE (Pediatric Nursing Care Excellence) Fellows |                                           |
| 11:15-11:45am| **“Finding My Match: Taking Your Idea to a Funder”**   | 2nd floor (Main), Bear Institute Innovation Center |
|            | Do you have an idea you would like to see developed and funded? How do you find a match, who can help you bring your idea alive? |                                           |
| 11:15am-12:15pm| **Passport to Poster Presentations**       | 1st floor, Main Atrium                           |
|            | Pick up your passport to events and attend poster presentations.  
**“Friend, Follow, and Connect: Research Tech and Tools”**  
Demonstrations: Twitter, LinkedIn, Facebook for Research, Data Mining with i2b2, Protocol Builder, REDCap, TriNetX, PowerTrials, and ‘Tools of the Future’  
Join us for an engaging hands-on demonstration of new and future tools used to make discoveries from the EHR. Learn how Twitter, LinkedIn, and Facebook are creating forums for communicating discoveries and connecting us to each other and our community. | 6th floor (Main), M7607 |
| 12:30-1:00pm| **Closing Remarks: “Collaborations vs. Team Science is There a Difference?”**     | 2nd floor (Main), Bear Institute Innovation Center |
|            | Mendel Tuchman, MD, Chief Research Officer, Children’s National Medical Center, Scientific Director, Children’s Research Institute |                                           |
| 1:00-1:45pm| **Legacy Luncheon: “Creating the Future Today”**                               | 2nd floor (Main), Bear Institute Innovation Center |
|            | Linda Talley, MS, BSN, RN, NE-BC, Vice President of Nursing and Chief Nursing Officer and Tracy Church, Senior Director of Development, Children’s Hospital Foundation |                                           |