KIDNEY DISEASE THERAPEUTIC INNOVATION SYMPOSIUM 2019

#NUGoKidney2019

PROGRAM

Friday
October 18, 2019
8:30AM - 5:30PM
Simpson Querrey Biomedical Research Center

nephrohub.org
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WE'RE SO GLAD YOU'RE HERE!

We can’t wait for you to experience the learning, innovation, and energy of today.

Innovation comes from a collection of ideas. So today, we’ve assembled a multi-disciplinary lineup of experts who are reshaping the future of kidney research and treatment with their bold ideas and innovative approaches to advancing therapeutic discovery and implementation in kidney diseases.

Innovation is a collaborative process. With that in mind, we’ve organized the Innovation Symposium so that you’ll have forum to share your discoveries with your scientific community, forge new collaborations, and look at your work in new ways and from new perspectives.

We’ve been preparing for today all year, but we’re even more excited to see what you do when you go back to your organization, lab, team, or community. We hope you’ll take the learning and connections from today and use them to discover new breakthroughs and advance the big solutions needed to create a future beyond kidney disease.
ABOUT THE SIMPSON QUERREY BIOMEDICAL RESEARCH CENTER

Forming new connections, accelerating discovery.

Designed to maximize scientific interactions between physicians and scientists, we couldn’t think of a better venue for today's NUGoKidney Innovation Symposium than the newest addition to Northwestern's Chicago campus and our new research home.

The Simpson Querrey Biomedical Research Center (SQBRC) houses 12 floors dedicated to scientific discovery and collaboration between the physicians and scientists from Northwestern University, Northwestern Medicine, and its affiliates.

You can learn more about the SQBRC at feinberg.northwestern.edu
THINGS TO KNOW

WIFI

So many networks to choose from - which one is best? See below to select that one that's right for you.

- **Choose Northwestern** if you have a Northwestern netID and password.

- **Visiting guest? Choose Guest-Northwestern network.** Accept the University's acceptable use policy, and you should be set to connect.

PHOTO NOTICE

This event is being digitally recorded and/or photographed.

By attending, you acknowledge and agree to grant Northwestern University the right to digitally record, film, photograph, or capture your likeness in any media now available or hereafter developed, and to distribute, broadcast, use, or otherwise disseminate such media in perpetuity without any further approval from you or any payment to you.

INNOVATION SYMPOSIUM ON SOCIAL

Follow us on social for official updates. Join the conversation with the #NUGoKidney2019 hashtag.

@NU_Nephrology  @NU_Nephrology

Help us capture the day! Tag your photos and tweets with #NUGoKidney2019
# Kidney Disease Therapeutic Innovation Symposium 2019

Simpson Querrey Biomedical Research Center (SQBRC)

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<td>REGISTRATION / BREAKFAST</td>
<td>SQBRC - Potocsnak Atrium</td>
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<td>9:00 AM</td>
<td>WELCOME</td>
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<td>9:15 AM</td>
<td>CHAD MIRKIN, PHD OPENING THE FIELD OF DIGITAL MEDICINE THROUGH SPHERICAL NUCLEIC ACIDS</td>
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<td>11:30 AM</td>
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<td>1:45 PM</td>
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<td>3:00 PM</td>
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<td>3:15 PM</td>
<td>NUGOKIDNEY 2018 PILOT &amp; FEASIBILITY Awardees UPDATE</td>
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<td>4:15 -5:30 PM</td>
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Dr. Chad A. Mirkin is the Director of the International Institute for Nanotechnology and the George B. Rathmann Professor of Chemistry, Chemical and Biological Engineering, Biomedical Engineering, Materials Science & Engineering, and Medicine at Northwestern University. He is a chemist and a world-renowned nanoscience expert, who is known for his discovery and development of spherical nucleic acids (SNAs) and SNA-based biodetection and therapeutic schemes, Dip-Pen Nanolithography (DPN) and related cantilever-free nanopatterning methodologies, On-Wire Lithography (OWL) and Co-Axial Lithography (COAL), and contributions to supramolecular chemistry and nanoparticle synthesis. Mirkin received his B.S. degree from Dickinson College (1986) and a Ph.D. degree from the Penn State University (1989). He was an NSF Postdoctoral Fellow at the MIT prior to becoming a professor at Northwestern University in 1991.

He has authored over 750 manuscripts and over 1,100 patent applications worldwide (over 330 issued) and founded multiple companies, including AuraSense, Exicure, TERA-print, and Azul 3D. Mirkin has been recognized with over 210 international awards, including the Kabiller Prize in Nanoscience and Nanomedicine, the SCI Perkin Medal, the Wilhelm Exner Medal, the RUSNANOPRIZE, the Dan David Prize, and the Sackler Prize in Convergence Research. He served for eight years on the President’s Council of Advisors on Science & Technology (Obama Administration), and he is one of very few scientists to be elected to all three US National Academies.

Mirkin has served on the Editorial Advisory Boards of over 20 scholarly journals, and he is the founding editor of the journal Small. At present, he is an Associate Editor of JACS and a PNAS Board Member.
Dr. Katalin Susztak is a physician-scientist at the University of Pennsylvania. Her laboratory is interested in understanding the pathomechanism of chronic kidney disease development. Her laboratory uses next generation sequencing methods and a large collection of human kidney tissue samples to identify novel pathways and biomarkers. At present there are more than 2,300 kidney tissue samples in her Biobank. The samples are carefully annotated with functional (eGFR, albuminuria) and structural (glomerulosclerosis and tubulointerstitial fibrosis) parameters. RNAsequencing analysis has been completed for more than 600 microdissected glomerular and tubular samples. These discovery approaches are complemented with careful cell and molecular biological studies to define the role of individual genes and pathways. This analysis identified a concerted dysregulation of immune system, metabolic and developmental genes (Niranjan et al. Nature Medicine 2008, Kang et al Nature Medicine 2015). While transcript level differences can highlight important changes in human CKD, we believe that integrating these results with genetic and epigenomic studies will be essential to identify causal pathways for CKD development (Qiu at al Nature Medicine 2018, Park et al. Science 2018). As such her laboratory has been part of the NIH Roadmap Epigenomics Projects to characterize the epigenome of healthy and diseased kidneys.

Dr. Susztak has been the recipient of the 2011 Young Investigator Award of the American Society of Nephrology and American Heart Association; one of the most prestigious award given to researchers under the age of 41 in the field of nephrology. Her laboratory is supported by the National Institute of Health, the American Diabetes Association, the Juvenile Diabetes Research Foundation and private sources.

“I think this is a really exciting time in science. New technologies are emerging, which will really accelerate research progress, and I think we have fantastic new discoveries ahead of us in biology.”
Rachel Nell Meyer is the Director of Policy and Government Affairs at the American Society of Nephrology and oversees the society’s federal legislative and regulatory advocacy portfolio. She works with Congress as well as federal agencies including the Centers for Medicare and Medicaid Services, the Food and Drug Administration, and the National Institutes of Health to influence policies that affect kidney health, research, and innovation. Most recently, she worked with senior leadership in the Department of Health and Human Services and at the White House to shape the Presidential Executive Order on Advancing American Kidney Health and related policy change framework.
Dr. Milica Radisic is Professor at the University of Toronto and Canada Research Chair (Tier 2) in Functional Cardiovascular Tissue Engineering. She obtained B.Eng. from McMaster University in 1999, and Ph.D. from the Massachusetts Institute of Technology in 2004, both in Chemical Engineering. She is a Fellow of the Canadian Academy of Engineering and a Fellow of the American Institute for Medical and Biological Engineering. Dr. Radisic received numerous awards and fellowships, including MIT Technology Review Top 35 Innovators under 35. In 2010, she was named “The One to Watch” by the Scientist and the Toronto Star; she also received McMaster Arch Award. She was a recipient of the Professional Engineers Ontario-Young Engineer Medal in 2011, Engineers Canada Young Engineer Achievement Award in 2012, Queen Elizabeth II Diamond Jubilee Medal in 2013 and NSERC E.W.R Steacie Fellowship in 2014. In 2014, she was elected to the Royal Society of Canada, College of New Scholars, Artists and Scientists. In 2015, she was awarded Hatch Innovation Award by the Canadian Society of Chemical Engineers. The long term objective of Dr. Radisic’s research is to enable cardiovascular regeneration through tissue engineering and development of new biomaterials.

Her research interests also include microfluidic cell separation and development of in vitro models for drug testing. Dr. Radisic’s research is funded by: CIHR, NSERC, CFI, ORF, NIH, and the Heart and Stroke Foundation. She is an Associate Editor for ACS Biomaterials Science & Engineering, a member of the Editorial Board of Tissue Engineering and Advanced Drug Delivery Reviews. She serves on CIHR and NIH review panels. She is actively involved with BMES (Cardiovascular Track Chair in 2013 and 2014) and TERMIS-AM (Council member, Chair of the Membership Committee). Her research findings were presented in over 130 research papers, reviews and book chapters with h-index of 45 and over 7200 citations. She is a co-founder of a start-up company TARA Biosystems focused on the use of engineered tissues in drug development.
Jennie Lin, MD, MTR
Assistant Professor, Medicine (Nephrology & Hypertension), Northwestern Feinberg School of Medicine

AB (Harvard University 2005), MD (University of Texas Medical School at Houston 2009), MTR (University of Pennsylvania, 2017), Internship and Residency (University of Colorado 2009-2012), Nephrology Fellowship (University of Pennsylvania 2012-2014)

I am a nephrologist and physician-scientist building a research program dedicated to the translation of human-based discoveries to new biological insights. Merging my clinical interest in kidney disease with my research training at Penn’s Cardiovascular Institute, my research focuses on functional interrogation of how novel genes identified through human genetics studies impact phenotypes relevant to cardiometabolic and renal diseases. My group employs an integrative approach including cellular models derived from human induced pluripotent stem cells with genome-editing technology, animal-based mechanistic studies, and transcriptomic and proteomic discovery.

“As a NIH NHLBI K08 investigator, funding from the P&F mechanism is allowing me to generate key data for future R01-level grant applications.”

NUGOKIDNEY PILOT & FEASIBILITY (P&F) PROGRAM

NUGoKidney ’s P&F Grants Program provide eligible investigators with the support and the resources needed to enhance opportunities for obtaining additional external funds, introducing new disciplines to the field of nephrology, and promoting synergy and collaborations among researchers of the NUGoKIDNEY Center and beyond.
Anand Srivastava, MD, MPH
Assistant Professor, Medicine (Nephrology & Hypertension), Northwestern Feinberg School of Medicine

Anand Srivastava, MD, MPH is an Assistant Professor of Medicine in the Division of Nephrology and Hypertension and a core member of the Center for Translational Metabolism and Health within the Institute for Public Health and Medicine at Northwestern University Feinberg School of Medicine. He received his medical degree from Saint Louis University and completed his internal medicine residency at UT Southwestern Medical Center. He went on to complete his nephrology fellowship at the Joint Brigham & Women’s and Massachusetts General Hospital program. He subsequently completed a postdoctoral fellowship in clinical research at Harvard Medical School during which time he obtained a Master's in Public Health from the Harvard T.H. Chan School of Public Health. Dr. Srivastava’s research focus is in patient-oriented research focused on the discovery and validation of novel non-invasive blood, urine, and imaging biomarkers that will identify high-risk patients with kidney diseases to optimize the conduct of clinical trials and serve as tools for drug development.

2019 Awardees

Gentzon Hall, MD, PhD
Duke University, School of Medicine
Exploring the Therapeutic Potential of Novel Discoveries in Familial Nephrotic Syndrome

Jing Jin, MD, PhD
Northwestern Feinberg School of Medicine
Realtime Noninvasive Imaging of Renal Transplant Rejection

Rizaldy Scott, PhD
Northwestern Feinberg School of Medicine
Understanding the role of Grb2 and Nck adaptors in the development of the renal mesangium
Paul DeCaen, PhD  
Assistant Professor, Pharmacology  
Northwestern Feinberg School of Medicine

Dr. DeCaen earned two bachelor’s degrees in Physiology and Chemistry from the University of California and worked as an Associate Scientist for Pfizer Research and Development for five years prior to earning his Ph.D. in Pharmacology from the University of Washington.

Here, he received his training in ion channel biophysics from Dr. William Catterall. Paul received additional training in structural biology as a HHMI postdoctoral fellow at Harvard Medical School under Dr. David Clapham while investigating the impact of molecular regulation of voltage-gated sodium and TRP channels. He is a Gottschalk Research Scholar and has published several highly influential research articles in prestigious journals such as Nature, PNAS, Cell, eLife and EMBO. He is currently an assistant professor at Northwestern University where his lab is focused on the molecular dysregulation of polycystin channels and their impact on cystogenesis in autosomal dominant polycystic kidney disease.

2020 Awardees

Jennie Lin, MD, MTR  
Northwestern Feinberg School of Medicine  
Dissecting APOL1-mediated Kidney Disease Using Single-Cell Transcriptomics

Neha Kamat, PhD  
Northwestern McCormick School of Engineering  
Cell free methods for assessing TRPP2 dysregulation by ADPKD-causing variants

John Peipert, PhD  
Northwestern Feinberg School of Medicine  
A New Patient-Reported Drug Development Tool to Evaluate Treatments for Kidney Transplant Patients

Peili Chen, MD, PhD  
University of Chicago, Dept. of Medicine  
Modeling Metabolomic Features of ADPKD in Induced Pluripotent Stem Cells (iPSCs)
1. **Risk Stratification for Contrast-Induced Nephropathy in Patients Undergoing CT Angiography for TAVR Planning**
   Mark Plantz, BS
   Northwestern Feinberg School of Medicine

2. **FGF23 Does Not Induce LVH in Female Mice with CKD**
   Claire Gerber, PhD, MPH
   Northwestern Feinberg School of Medicine
   Center for Translational Metabolism and Health

3. **A New Method for Measuring N-Terminal Aspartate Cleavage by Aminopeptidase A in Angiotensin Substrates**
   Yasemin Abedini, Medical Student
   Northwestern Feinberg School of Medicine
   Division of Nephrology & Hypertension

4. **Single-Cell RNA Sequencing Identifies Cell-Type Specific Cellular Responses to Renal Ischemia-Reperfusion Injury**
   Tomokazu Souma, MD, PhD
   Duke University, Department of Medicine
   Division of Nephrology

5. **SMAD Anchor for Receptor Activation (SARA) Prevents Pericyte Transdifferentiation to Fibroblasts and Inhibits Fibrosis**
   Tomoko Hayashida, MD, PhD
   Northwestern Feinberg School of Medicine
   Department of Pediatrics

6. **Functional Intrarenal Alterations and Glomerular Basement Morphological Changes in Mice Deficient of Aminopeptidase A**
   Arndt Schulze
   Northwestern Feinberg School of Medicine
   Division of Nephrology & Hypertension
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| Rebecca Frazier, MD  
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Northwestern Feinberg School of Medicine |  |
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Isha Sharma, PhD
Northwestern Feinberg School of Medicine
Department of Pathology

14 ENDOTHELIAL-SPECIFIC PHOSPHATASE VEPTP/PTPRB IS ESSENTIAL FOR THE DEVELOPMENT OF THE RENAL MESANGIUM
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Northwestern Feinberg School of Medicine
Center for Translational Metabolism and Health

15 INHIBITION OF THE VE-PTP PHOSPHATASE PROTECTS THE KIDNEY FROM ISCHEMIA-REPERFUSION INJURY
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Northwestern Feinberg School of Medicine
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16 THE EFFECTS OF SYSTEMIC, INDUCIBLE OVER-EXPRESSION OF HIF-2A ON THE BODY.
John Silva, MD
Northwestern Feinberg School of Medicine
Division of Nephrology & Hypertension

17 REVIVING THE HEART OF LIPOPROTEIN(A)’S ROLE IN CHRONIC KIDNEY DISEASE: PILOT STUDIES TO EVALUATE POTENTIAL FOR THERAPEUTIC TARGETING
Jennie Lin, MD, MTR
Northwestern Feinberg School of Medicine
Division of Nephrology & Hypertension

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Anand Srivastava, MD, MPH
Northwestern Feinberg School of Medicine
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Meet Core A staff and learn more about NUGoKidney's Core A Resources and Services.

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ABOUT NUGOKIDNEY

NORTHWESTERN UNIVERSITY GEORGE M. O’BRIEN KIDNEY RESEARCH CORE CENTER

WHO WE ARE

NUGoKidney aims to promote and support innovative research leading to the discovery of novel nephrotherapeutics that will transform the prevention and treatment of kidney diseases and eventually lead to cures.

Mission

To strengthen the regional, national, and international capacity to identify, test, and advance the development of novel therapeutics for patients with kidney diseases by engaging across multiple institutions.

WHAT WE DO

NUGoKidney provides researchers from around the world with the resources they need to identify potential therapeutic targets for kidney diseases, test them in preclinical studies, and advance them to human studies.

We also work to create a new infrastructure for collaborative cross-disciplinary research while engaging patients and other stakeholders in research partnerships. NUGoKidney establishes best practices for therapeutics development in nephrology and provides data, tools and resources to the greater research community while training the next generation of therapeutics-focused nephrology investigators.
The researchers who work with and at NU GoKidney represent a multidisciplinary team of some of the world’s leading experts in science and medical research. The work done at NU GoKidney represents creative, cutting-edge expertise in three areas to drive discovery in kidney therapeutics - preclinical models, therapeutic design and development, and clinical and translational research.

**PRECLINICAL MODELS CORE (CORE A)**

Provides researchers access to specialized services to develop state-of-the-art preclinical kidney disease models to identify and test new therapeutic targets.

**Services include:**
- Resources and consultation services to develop preclinical kidney disease models to identify and test new therapeutic targets.
- Access to 30+ transgenic mouse models, kidney and cardiovascular disease models
- Mouse phenotyping services
- Services enabling generation of induced pluripotent stem cells (iPSCs) from patients with kidney diseases

Scan here to learn more about our cores
THERAPEUTIC DESIGN & DEVELOPMENT CORE (CORE B)

Provides service design for developing small molecule and cellular therapeutics and precision targeting strategies.

Services include:
- Offers centralized consultation and services focused on development of nephro-therapeutics
- Spans concept and design of small molecular drugs and therapeutic cells through in vitro validation and small animal testing.
- Works closely with other Core services within CLP and other Northwestern Centers.

CLINICAL & TRANSLATIONAL CORE (CORE C)

Provides support for research study design and conduct to safely test therapies for kidney disease.

Services include:
- Research study design and conduct
- Access to existing data and biosample repositories
- Data management and data analysis
- Community engagement and research bioethics
- Application of methodologies in statistics, patient-reported outcomes, and biomedical informatics

HOW TO WORK WITH US

1. Visit nephrohub.org
2. Click Get Started button
3. Complete request form.
4. Consultation with Core Navigator
5. Plan & next steps
NUGoKidney’s Enrichment Program is designed to promote scientific exchange and enhance inter-disciplinary collaborations to overcome barriers to developing the innovative solutions needed to transform the prevention and treatment of kidney diseases.
ENRICHMENT OPPORTUNITIES

Through interactive, comprehensive programs and non-traditional partnerships, NUGoKidney’s Enrichment Program provides educational opportunities and research venues to expose investigators to the latest advances in kidney research, grow the kidney disease translational workforce, and serve the needs of the people and communities affected by kidney diseases.

SCIHIGH
Provides students with hands-on research experiences to build the skills and confidence to achieve success in science and kidney research.

At the heart of the program is an 8-week immersive summer research internship where junior / senior level high school students work on kidney projects under the mentorship of an experienced researcher.

RESEARCH WORKSHOPS
Educational events that expose researchers to concepts in other disciplines and foster the evolution of cross-cutting research teams with diverse expertise to remove barriers to therapeutic advances.

KIDNEY-GO CURES
Events held in accessible community venues (e.g., bars, restaurants, libraries, parks) to promote awareness about the burden of kidney disease and the groundbreaking research at NUGoKidney and beyond.

SCIENCE JAMS
Informal meetings attended by trainees and faculty from multiple disciplines to facilitate interdisciplinary interaction, accelerate projects, exchange ideas, and build relationships.

INNOVATION SYMPOSIUM
The Kidney Disease Therapeutic Innovation Symposium is an annual one-day event acting as a forum to share discoveries with the scientific community and highlight the research from NUGoKidney Core investigators and trainees.

Resources & Services Available at nephrohub.org

nephroHUB is your online resource for accessing all of NUGoKidney’s core services and enrichment opportunities. Visit to:

- Learn about and request core consultations and services.
- Stay up-to-date on online and in-person educational events and training opportunities.
- Connect with expert core navigators.
- Inquire about opportunities to collaborate.
World Kidney Day
Thursday, March 12, 2020

This World Kidney Day we're socking it to kidney disease again to raise awareness for kidney health for everyone everywhere.

Ready your socks and join us!

Follow us on Instagram and Twitter @NU_Nephrology for updates on how you can help #sockittokidneydisease.
THANK YOU
SEE YOU NEXT YEAR!
#NUGOKIDNEY2019

Expanding the therapeutics pipeline in nephrology
nephrohub.org