

# The 17<sup>th</sup> Annual NIDDK Scientific Conference

April 7<sup>th</sup> – 8<sup>th</sup>, 2022

## Virtual Schedule at a Glance

\* All times are in Eastern Standard Time (EST)

### Day 1: Thursday, April 7<sup>th</sup>, 2022

8:30 – 8:40 AM	<b>Welcome Statement</b> Dr. Rhitajit (Rits) Sarkar, NIDDK Fellows Advisory Board Chair, LERB
8:40 – 8:50 AM	<b>Opening Remarks</b> Dr. Griffin P. Rodgers, Director, NIDDK
8:50 – 9:50 AM	<b>SESSION I</b>  <b>Dr. Yekaterina (Kate) Miroshnikova</b> , LMB, <u>Opening talk</u> <i>“Nuclear and chromatin mechanics in cell state regulation”</i>  <b>Ms. Jacqueline Katz</b> , DEOB <i>“Prolonged Stimulation of <math>\beta</math>-Adrenergic Receptors in Human Brown Adipocytes Leads to Receptor Desensitization and Decreases in Metabolic Activity”</i>  <b>Dr. Xiaofei Bai</b> , LBG <i>“Deciphering the Cellular and Molecular Mechanisms of Congenital Generalized Lipodystrophy in <i>Caenorhabditis elegans</i>”</i>
9:50 - 10:20 AM	<b>ELEVATOR TALKS</b>  <ol style="list-style-type: none"> <li><b>Dr. Srinivas Pittala</b>, LBC <i>“Activation of receptor-mediated G12 signaling has pronounced effects on hepatic glucose fluxes”</i></li> <li><b>Dr. Sezen Meydan</b>, LBG <i>“Multiple cellular surveillance pathways detect collided ribosomes”</i></li> <li><b>Dr. Daniel Chauss</b>, KDB <i>“Complement receptor signaling activates an autocrine vitamin D system that recruits a transcription factor network to shut down pro-inflammatory programs of Th1 cells”</i></li> <li><b>Dr. Alexander Yang</b>, DDB <i>“Lipoprotein Profile Changes in Alcohol Use: Understanding Alcoholic Steatosis”</i></li> <li><b>Dr. Ye Liu</b>, LERB <i>“Thyroid Hormone Transporter MCT8 and Retinal Pigmented Epithelium Promote Cone Opsin Patterning in the Neural Retina”</i></li> <li><b>Dr. Santosh Kumar</b>, DEOB <i>“Functional characterization of a vagal sensory neuron-to-pancreatic islet <math>\beta</math> cell circuit”</i></li> <li><b>Dr. Samantha Day</b>, PECRB <i>“Identifying the Effector Gene for an Enhancer Element Variant that Associates with Type 2 Diabetes Protection in American Indians”</i></li> <li><b>Dr. Karim Mouzannar</b>, LDB <i>““Stay with me p97! Oh, and I don’t mind if you’re inhibited.”: The case of the non-ATPase role of p97 in HBV replication”</i></li> </ol>
10:20 - 10:30 AM	<b>Break</b>
10:30 - 11:00 AM	<b>CAREER AND RESEARCH DEVELOPMENT</b>  <b>Ms. Christina Farias MBA</b> , Chief Executive Officer & Executive Director, Foundation for Advanced Education in the Sciences (FAES) <i>“What can FAES offer you?”</i>

11:00 AM - 12:00 PM **Career Consulting Event** (Parallel sessions, **Registration Required**)

**Academia**

**Dr. Louise Charkoudian** -  
Haverford College, PA  
**Dr. David Rosen** - Washington  
University, MO  
**Dr. Herman Nikolayevskiy** -  
University of San Francisco, CA

**Industry**

**Dr. Tania Incitti** - Astra Zeneca,  
Sweden  
**Dr. Mu Sun** - Neukio  
Biotherapeutics, China  
**Dr. Mohit Mathew** - Salubris  
Biotherapeutics

**Entrepreneurship & Consulting**

**Dr. Erika Dahl** - Halloran  
Consulting Group, MN  
**Dr. Gary Krieger** - NewFields, CO

12:00 - 1:00 PM **Lunch Break**

1:00 - 2:00 PM **KEYNOTE SESSION I**

**Dr. Raychelle Burks** from **American University, Washington DC**  
*"Crooked chemistry: mysterious cases, nefarious deeds, and analytical advancement"*

2:00 - 3:15 PM **POSTER SESSION I - Including the Elevator Talk Presenters**

3:15 - 3:30 PM **Break**

3:30 - 5:10 PM **SESSION II**

**Dr. Cassie Mitchell**, Phoenix ECRB, Opening talk  
*"Associations of plasma, red blood cells and adipose fatty acid carbon isotope ratios in a 12-week inpatient feeding study"*

**Mr. Diego Jimenez**, LCMB  
*"Stool is the tool: monitoring somatic expansion in the repeat expansion diseases"*

**Dr. Khushdeep Bandesh**, PERCB  
*"Functional Characterization of a Missense Variant in the Methionine Salvage Pathway Gene MRI1 that Conveys Protection for Type 2 Diabetes in American Indians"*

**Mr. Reed Thomas**, DEOB  
*"Challenging the myth of women being colder than men: a thermophysiology perspective"*

**Ms. Samantha Grounds**, LDB  
*"The Function of Iron Chaperone PCBP1 in Macrophage Iron Homeostasis"*

— End of Day 1 —

\* All times are in Eastern Standard Time (EST)

**Day 2: Friday, April 8<sup>th</sup>, 2022**

8:30 - 10:10 AM **SESSION III**

**Dr. Elissa Lei**, LBG, Opening talk  
*"Temporal regulation of neuronal development by a chromatin anti-looping factor"*

**Dr. Agnes Karasik**, LBG  
*"Activation of the antiviral host factor, RNase L leads to the accumulation of translated RNA fragments"*

**Mr. Ivan Alcantara**, DEOB  
*"Neuronal mechanisms underlying the choice between parenting and feeding behaviors"*

**Dr. Ji Hoon Oh**, LDB  
*"Wild-derived microbiota and pathogens regulate the effector/suppressor immune cell balance and the outcome of preclinical disease models."*

**Dr. Nidhi Kundu**, LCMB  
*"Structure, mechanism, and drug-inhibition of dynamin-mediated membrane fission"*

10:10 - 10:30 AM **Break**

10:30 AM - 11:00 AM **FACILITIES AND RESOURCES EXPO EVENT**

NIDDK Advanced Light Microscopy and Image Analysis Core  
 Advanced Imaging & Microscopy (AIM) Resource (Trans-NIH)  
 NCI CCR Confocal Microscopy Core Facility  
 NIDDK Advanced Mass Spectrometry Core  
 NIDDK Clinical Mass Spectrometry Core  
 NIDDK Clinical Laboratory Services Core  
 NIDDK Genomics Core  
 NIDDK Mouse Metabolism Core  
 NIDDK Biostatistics Program  
 NHLBI FACS Core  
 NHLBI Biophysics Core Facility  
 NIH Collaborative Research Exchange (CREx)  
 NIDDK Trainees Recognizing Excellence and Diversity in Science (TREaDS)

NIH Office of Intramural Training and Education (OITE)  
 The Foundation for Advanced Education in the Sciences (FAES)  
 NIH Toastmasters  
 NIH Green Labs Fair  
 FAB Informer  
 NIH Sailing Association (NIHSA)

11:00 AM - 12:00 PM **Expo Poster Presentations**

12:00 – 1:00 PM **Lunch Break**

1:00 - 2:15 PM **POSTER SESSION II**

2:15 - 3:15 PM **SESSION IV**

**Dr. Priyanka Narayan**, GBB, Opening talk  
*“Understanding cellular mechanisms of risk in neurodegenerative disease”*

**Ms. Sydney Dixon**, DEOB  
*“Prebiotics and Metformin: A pilot randomized controlled trial in youth-onset type 2 Diabetes”*

**Dr. Yusuke Okuno**, LCP  
*“Probing molecular details of cosolute-protein interactions using paramagnetic relaxation enhancement”*

3:15 – 3:30 PM **Break**

3:30 - 4:30 PM **KEYNOTE SESSION II**

**Dr. Karmella A. Haynes**, Emory University  
*“Triple negative breast cancer: chromatin, obesity, and epigenetic engineering”*

4:30 - 5:00 PM **AWARD CEREMONY AND CLOSING REMARKS**

**Dr. Michael W. Krause**, Scientific Director, NIDDK

End of Day 2