



NIH/NIGMS IDeA Central Region Conference 2019

AGENDA AT A GLANCE

Access the full agenda at:

<https://okinbre.ouhsc.edu/IDeA-Regional-Conference-2019/Conference-Agenda>

Wednesday, June 12

- 3:00 – 6:00 Registration (One Broadway Ballroom)
3:00 – 5:00 SHARPHub Internal Advisory Committee (Brick Room, 1st floor)
5:30 – 7:00 **Reception** (Sheraton One Broadway Ballroom and Aria Lounge)
6:30 – 7:00 **Featured Talk:** Genomics for American Indian and Alaska Native Communities (One Broadway Ballroom)

Thursday, June 13

- 7:30 – 9:30 Registration (Century Foyer)
7:30 – 8:30 Breakfast Buffet (Century Foyer/Ballroom)
10:00 Poster Setup Open (Plaza Ballroom)
8:15 – 10:35 **Plenary Session 1** (Century Ballroom)
10:35 – 11:00 Networking Break (Century Foyer)
11:00 – 12:30 **Topic Breakouts Session 1**

Clinical and Translational Research (Century Ballroom)

- DaCCoTA Center Overview
- The Great Plains IDeA CTR Network
- ISPCTN: Improving Children's Health through State-of-the-Art Clinical Trials in IDeA States
- Leveraging OUHSC Clinical Informatics to Inform Research and Practice

Developmental Biology (Kiamichi Room)

- Apolipoprotein B paralogs are required for regeneration in planarians
- The involvement of Notch mediated lateral inhibition in kidney collecting duct cell type differentiation and maintenance
- Pioneering Activity of GATA3 Drives Cell Fate Transition in Breast Cancer
- Estrogen as a Mediator of Fibrocartilage Homeostasis and Regeneration

Infectious Diseases (Red Carpet Room)

- Neutrophil functions in acute and chronic lung diseases
- STAT3 signaling is required for efficient replication of vaccinia virus in infected cells
- Influenza-host interactions control innate immune defense and viral pathogenesis
- The Challenges of Predicting HUman Endogenous retroviral RNA Structure and Function

Enhancing Student Learning ACTIVELY! (Great Plains Room)

- 12:30 – 2:00 **Lunch with NIH Keynote Speaker** (Century Foyer/Ballroom)
2:00 – 3:30 **Topic Breakouts Session 2**

Core Facilities (Century Ballroom)

- Targeted Quantitative Proteomics in the IDeA National Resource for Proteomics and the Oklahoma INBRE

- Redefining mouse transgenesis with CRISPR-Cas9
- Research Design and Biostatistics Core: Improving Research through Data and Statistics
- North Dakota State University COBRE Center for Visual and Cognitive Neuroscience: Core Facilities
- IDeA Core Facilities and Services - DRCB/NIGMS Perspective

Structural Biology (Red Carpet Room)

- Mechanism of Stabilizing Broken Ended Membranes by Poxvirus Proteins
- A Role for Gamma-Glutamyl Transferase in Tumorigenesis: Insights Gained from Structural Analyses
- Bridge helix of Cas9 impacts target DNA cleavage and selectivity
- What to Expect from Access to Cryo-EM National Service Centers
- Applications of Machine Learning to Structural Biology

Evaluation (Great Plains Room)

- South Dakota BRIN, Evaluation Design for the Long Game
- Evaluation Practices for COBRE Projects and Mentoring Programs
- Tracking and Evaluation at the Great Plains IDeA CTR
- Alaska INBRE

Adverse Childhood Experiences (ACEs) (Kiamichi Room)

- Differential rearing: A preclinical rodent model to examine the impact of the early rearing environment on drug taking in adulthood
- Abating an Epidemic: Prevention, Treatment, Training, and Research Approaches to the Opioid Epidemic
- System dynamics models for alcohol exposed pregnancy health disparities: Community based understanding of a complex issue
- Toward a more comprehensive picture of rural drug addiction: models, considerations and approaches from The Rural Drug Addiction Center in Nebraska

3:30 – 4:00 Networking Break (Century Foyer)

4:00 – 5:00 **Student Research Presentations from Each Central IDeA State** (Century Ballroom)

- Molecularly Imprinted Polymers for Dopamine (South Dakota)
- Germline-specific roles of HSF1 and its regulation in reproduction (Oklahoma)
- Gene drive inhibition by the anti-CRISPR proteins AcrIIA2 and AcrIIA4 in *Saccharomyces cerevisiae* (Kansas)
- HLA-II Type Elicits Specific Clinical and Behavioral Responses in a Transgenic Mouse Model of Non-Anaphylactic Cow's Milk Allergy (North Dakota)
- Double chemical mutagenesis: elucidating the mode of action of experimental compounds (Nebraska)

5:00 – 6:00 **Open Poster Session** (Plaza Ballroom)

Thursday night dinner on your own – see map and dining guide

Friday, June 14

7:30 – 8:30 Breakfast Buffet (Century Foyer/Ballroom)

8:30 – 11:00 **Topic Breakouts Session 3**

Neuroscience (Red Carpet Room)

- Neuroscience of Timing and Decision Making
- Neural Predictors of Response to Behavior Therapy for Anxiety and Depression
- Impaired Immunity to Measles in Adults with Depression
- Made to Thrive: Neuroscience-based Prevention of Long-term Consequences of Early Life Stress

Cancer (Century Ballroom)

- Histology, Immunohistochemistry, & Microscopy (HIM) Core at OUHSC COBRE
- Label-free, electronic detection of pancreatic cancer exosomes
- XRN2 dictates DNA repair pathway choice via R-loop resolution
- Biospecimen core at Stephenson Cancer Center COBRE
- Analysis of Migration Associated Treatment Resistance in Glioblastoma to Identify Novel Therapeutics

Diabetes (Great Plains Room)

- New Vision for Stopping the Obesity and Diabetes Epidemic: Disease Interruption in the First 1000 days
- Is Reduced Liver Metabolism Making Us Obese and How Soon?
- TP-R: a Novel Mediator of Obesity-Related Insulin Resistance
- Novel regulators of adipocyte-mediated inflammation

Immunology/Autoimmunity (Kiamichi Room)

- Immunomethylomics as a tool for understanding cancer risk and prognosis: a biostatistician's perspective
- Systemic Lupus Erythematosus and ARID3a: Unexpected Associations
- Identification of CpGs to use as early detection biomarkers in pancreatic cancer
- Alpha-synuclein-mediated epigenomic modification of microglial neuroinflammation in Parkinson's disease

11:00 – 11:20 Networking Break (Century Foyer)

11:20 – 12:00 **Plenary Session 2** (Century Ballroom)

- Oklahoma City Innovation District
- Invitation to CUR 2020 at Montana State University
- What NAIPI Can Do for You
- Closing remarks

Boxed Lunch To-Go