

2023 North Dakota INBRE Symposium Schedule

UND School of Medicine & Health Sciences – Saturday, October 28

- 7:30-8:30 am **Registration and Breakfast** (*First Floor, East Atrium*)
Poster Set-Up (*Second Floor W202*)
- 8:30 am **Welcome and Introductions** (*First Floor Auditorium, E101*)
- 8:45 am **Student Presentation** - University of North Dakota
Abby Lind - *Expression of KRT6, ALDH3A1, and SPRR2A in Arsenite-Transformed UROtsa Cells after Treatment with Pevonedistat and APTO-253*
- 9:05 am **Student Presentation** – Mayville State University
Jesse Halverson - *Ecology and Blood Feeding Preferences of Mosquitoes in Traill Co., North Dakota*
- 9:25 am **Student Presentation** – Minot State University
Faith Hauck - *Methamphetamine-Induced Epinephrine Secretion in Pure Bovine and Porcine Adrenal Medulla Isolates*
- 9:45 am **Student Presentation** - University of Mary
Celia Brekken – *A Calcium Binding Protein Involved in Temporal Dynamics of the Drosophila Vision*
- 10:05 am **Student Presentation** – North Dakota State University
Gabriela Gomes - *Towards Regioselective Ring Opening of Aryl-Thiomaleimides*
- 10:25 am **Break** (*First Floor, East Atrium*)
- 10:40 am **Student Presentation** - University of North Dakota
Mason Curtis - *Pharmacological and Functional Characterization of a Human Serotonin Transporter Expression Construct for Use in Obtaining High-resolution CRYO-EM Structures with the Empathogen MDMA*
- 11:00 am **Student Presentation** – Minot State University
Lynn Vick – *Rapid Procedure for the Leuckart Reaction: Application to Substituted Acetophenones*
- 11:20 am **Student Presentation** – University of North Dakota/ Univ of Minnesota, Morris
Abbie Rehbein - *Sharing Is Caring: Pollinating Flies Discovered to Contain Similar Gut Microbiota as Bees in the Northern Plains*
- 11:40 am Corey Smith, Ph.D., Department of Pathology, UND School of Medicine & Health Sciences
Brent Voels, Ph.D., Science Instructor, Cankdeska Cikana Community College
A Medical School – Tribal College Partnership: The Virtual Indigenous Data Science Academy

- 12:10 pm **Lunch** (*First Floor, East Atrium*)
- 1:00 pm **Posters will be available for viewing starting at 1:00pm.**
- 1:00 pm **Faculty Meeting with External Advisory Committee** (*W206*)
- 1:00-1:45 pm **Graduate School** (*W203*)
L. Keith Henry, Ph.D.
Associate Professor, Biomedical Sciences and Chemistry
Director of Graduate Admissions
- 1:45 – 2:30 pm **Medical School Panel** (*W203*)
UND Medical Students: Rachel Guyer, Maryam Al-Kaabi, Devin Evavold, Katrina Blommel
- 2:30 -5:00 pm **Poster session** (*Second Floor W202*)
- 5:30-7:30 pm **Dinner** (*Second Floor E222*)

Keynote Speaker

Dwight E. Bergles, PhD

Professor and Vice Chair of Research

Solomon H. Snyder Department of Neuroscience

Johns Hopkins University School of Medicine

Title: Sounds in silence: How the Ear Initiates Maturation of the Auditory System Before Hearing Onset

UND School of Medicine & Health Sciences – Sunday, October 29

- 8:30 -9:00 am Continental Breakfast (*Fourth Floor outside W415*)
- 9:00 – 12:00 pm Workshops (*Fourth Floor Pathology Labs; Chemistry Department, Abbott Hall*)

Participants will be divided into groups of 4-5 and rotate through all workshops.
- 12:00 pm Boxed Lunches available at the end of the workshops.
(Fourth Floor outside W415)

All workshops are composed of a brief overview of the technique and an actual demonstration of the steps involved in the technique. All workshops can be expanded for a “hands-on” experience if requested by the partners of the ND INBRE on weekdays or weekends during the academic year.

ND INBRE Microscopy Core: This workshop will give an introduction to the various microscopes available in the INBRE Microscopy Core. Special emphasis will be put on confocal (3D) microscopy with live demonstrations and a chance for “hands-on” confocal microscope use. No prior experience in microscopy is required.

Flow Cytometry: Flow cytometry is a widely used technique with diverse applications. The introduction will cover the general basics of flow cytometry and its applications. We will demonstrate how to perform flow cytometry experiments using human cells labeled with specific surface markers. Additionally, we will showcase Fluorescence-activated cell sorting (FACS), where a specific population of cells is sorted using the flow cytometry machine.

ND INBRE Environmental Core: This one-hour session will provide a tour of the Core laboratory and hands-on demonstrations of equipment and state-of-the-art instruments available for metal analysis of biological and environmental samples. Safety glasses, gloves, etc. will be provide for attendees during demonstrations, and attendees may bring samples to be tested.