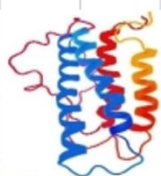


PROGRAM



CTDP

Consortium for Top-Down Proteomics
Bringing Proteoforms to Life™

2ND INTERNATIONAL TOP-DOWN PROTEOMICS SYMPOSIUM

October 3-5, 2023
Northwestern University,
Chicago, IL

TDP2023.ORG

Northwestern | PROTEOMICS

Northwestern



Chemistry of Life
Processes Institute

SCHEDULE

TUESDAY, OCTOBER 3

REGISTRATION OPENS

- 9:00 am Northwestern Medicine's Prentice Women's Hospital, 3rd Floor Harris Atrium | 250 E Superior St., Chicago IL
- 10:30 am Early Career Researchers Session (Room M, Prentice Hospital, 3rd Floor)
This hybrid in-person/Zoom session is targeted to early career researchers and requires pre-registration. The session includes flash talks, a discussion period, and lunch, ending at 12:30 PM.

INSTALLATION OF POSTERS

- 11:00 am Harris Atrium

WELCOME AND OPENING – Room L

- 1:00 pm Milan Mrksich, PhD, Northwestern University
Neil Kelleher, PhD, Northwestern University

SESSION 1: NEW FRONTIERS IN PROTEOMICS – ENTERING THE PROTEOFORM ERA

- 1:10 pm *New Frontiers in Proteomics: Proteoforms, Proteoform Families, and the Human Proteoform Project*
Lloyd M. Smith, PhD, University of Wisconsin - Madison
- 1:45 pm David R. Walt, PhD, Wyss Institute at Harvard University
- 2:20 pm Gloria M. Sheynkman, PhD, University of Virginia School of Medicine
- 2:45 pm *A Word from the Consortium for Top-Down Proteomics*
Paul Danis, PhD, CEO, Consortium for Top-Down Proteomics
- 2:50 pm Coffee Break

SESSION 2: ADVANCING MASS SPECTROMETRY TECHNOLOGIES FOR PROTEOFORM ANALYSIS

- 3:15 pm *Recent Advances in Mass Spectrometry of Proteoforms*
Joseph Loo, PhD, University of California, Los Angeles
- 3:50 pm Dimitris Papanastasiou, PhD, Fasmatech (now Bruker)
- 4:15 pm Liangliang Sun, PhD, Michigan State University
- 4:40 pm Promoted Talk
- 5:00 pm And now a word from our sponsors!

ROUND TABLE 1: THE ART AND SCIENCE OF PROTEOFORM DISCOVERY

- 5:20 pm Moderator: Hartmut Schlueter, PhD, University of Hamburg
- Panelists:
Vlad Zabruskov, PhD, Thermo Fisher Scientific
Si Wu, PhD, University of Oklahoma
Luca Fornelli, PhD, University of Oklahoma
Others TBD

POSTER SESSION & COCKTAILS/HORS D'OEUVRES – Harris Atrium

- 7:00 pm Harris Atrium

WEDNESDAY, OCTOBER 4

SESSION 3: EMERGING PROTEOMIC PLATFORMS – Room L

- 9:00 am Amy E. Herr, PhD, University of California-Berkeley and Chan-Zuckerberg Biohub Network
- 9:35 am Jeffrey Nivala, PhD, University of Washington
- 10:00 am And now a word from our sponsors!
- 10:20 am Coffee Break
- 10:50 am Sampling the Proteome by Mass Spectrometry Versus Emerging Single Molecule Counting Methods
Michael MacCoss, PhD, University of Washington

ROUND TABLE 2: NEXT-GENERATION PROTEOMICS AND SINGLE-MOLECULE PROTEOFORM SEQUENCING

- 11:15 am Moderator: Lloyd Smith, PhD, University of Wisconsin - Madison
- Panelists:
Parag Mallick, PhD, Nautilus Biotechnology
Brian Reed, PhD, QuantumSi
Others TBD

LUNCH & POSTER SESSION – Harris Atrium

12:00 pm

SESSION 4: MAPPING SPATIAL AND SINGLE-CELL PROTEOFORM LANDSCAPES

- 1:30 pm *Toward Single-cell Proteoforms and Proteoform Imaging*
Ljiljana Pasa-Tolic, PhD, Pacific Northwest National Laboratory
- 2:05 pm Promoted Talk
- 2:25 pm And now a word from our sponsors!
- 2:45 pm Promoted Talk
- 3:05 pm *Digitizing Proteoform Biology with Single Molecule Mass Spectrometry*
Neil Kelleher, PhD, Northwestern University
- 3:30 pm Coffee Break

SESSION 5: DEFINING FUNCTIONS OF PROTEOFORMS AND THEIR COMPLEXES

3:55 pm Marc Vidal, PhD, Dana-Farber Cancer Institute, Harvard Medical School

4:30 pm Invited Speaker TBD

4:55 pm Promoted Talk

ROUND TABLE 3: THE HUMAN PROTEOFORM PROJECT

5:15 pm Moderator: TBD

Panelists:

David R. Walt, PhD, Wyss Institute at Harvard University

Marta Vilaseca, PhD, Institute for Research in Biomedicine, Barcelona

Alexandra Naba, PhD, University of Illinois at Chicago

COCKTAILS & DINNER AT WOODWIND RESTAURANT

7:00 – 11:00 pm Registration includes cocktails and dinner at Woodwind Restaurant located at 259 E. Erie St., 18th Floor, Chicago, just a few minutes' walk from Prentice

THURSDAY, OCTOBER 5

SESSION 6: PROTEOFORMS AS DRIVERS OF CLINICAL RESEARCH – Room L

- 9:00 am Ying Ge, PhD, University of Wisconsin
- 9:35 am Julia Chamot-Rooke, PhD, Institute Pasteur
- 10:00 am Promoted Talk
- 10:20 am And now a word from our sponsors!
- 10:40 am Coffee Break

ROUND TABLE 4: THE CLINICAL VALUE OF PROTEOFORMS

- 11:05 am Moderator: Ying Ge, PhD, University of Wisconsin - Madison
- Panelists:
Wendy Sandoval, PhD, Genentech
Julea Vlassakis, PhD, Rice University

CLOSING LECTURE

- 11:50 am Ben Garcia, PhD, Washington University

FINAL REMARKS

- 12:25 pm Neil Kelleher, PhD, Northwestern University
- 12:30 pm Symposium Close

SYMPOSIUM HOSTS



SPONSORS

