

NERLSCD 2023 PROGRAM AT A GLANCE

Registration from Wednesday, Oct-18th at noon time through Friday, Oct-20th at noon time.

WEDNESDAY, OCT-18TH

Pre-Meeting Workshops

1:00-2:30 pm

- Illumina (Montpelier A): *Interactive user group discussion with the local Illumina technical team.*
- New England Biolabs (NEB) (Montpelier C): *New tools and techniques for your NGS toolbox: the latest additions to the NEBNext family of products for NGS library prep.*

2:30-4:00 pm

- QIAGEN (Montpelier A): *Advances in sample preparation through NGS & dPCR detection from liquid biopsy samples.*
- Revvity (PerkinElmer) (Montpelier C): *Single cell RNA sequencing workshop.*

UVM-Larner College of Medicine Core Tours

2:00 pm to 4:00 pm

University of Vermont, Larner College of Medicine-Center for Biomedical Shared Resources (CBSR), Firestone Bldg.-First Floor, 149 Beaumont Avenue, Burlington, VT

Opening reception

6:00 pm – 9:00 pm

-At ECHO Leahy Center for Lake Champlain. 1 College St, Burlington, VT. At walking distance from the Hilton Hotel.

THURSDAY, OCT-19TH

9:00 am WELCOME TO NERLSCD 2023

9:30 am

Keynote 1: Rita Colwell. *"Oceans, climate, and human health: cholera as a model for global pandemics"*. (@ Green Mountain)

10:15 am: Platinum talk: Qiagen. *Speed up and simplify your RNA and DNA biomarker workflows using NGS and digital PCR.* (@ Green Mountain)

10:30 am: Morning break and Networking (@ Adirondack)

10:45 am

Round-table. Valeria Mezzano-Robinson (NYU Langone) and Nicole Contaxis (NYU Langone). *Data management and data sharing: What is the role of Shared Research Resource Facilities/Cores?* (@ Green Mountain)

11:45 am: Platinum talk: NEB. *Streamlined for speed: new library prep for DNA & RNA.* (@ Green Mountain).

12:00 pm: LUNCH and Networking (@Montpelier and Adirondack)

1:30 pm: Concurrent Breakout Sessions, 1 hr./vendor talk 10 minutes

1) Genomics

Scott Tighe (U of Vermont). *Implementation of Long Read Sequencing and Data Analysis in Core Facilities.* (@ Green Mountain)

Vendor talk: PacBio. *Game-changing products for high accuracy sequencing.* (@ Green Mountain)

2) Flow-Informatics

Tim Bushnell (U. of Rochester MC). *Evaluating flow cytometry software.* (@ Montpelier A)

Vendor talk: Bio-Techne (Namocell). *Empowering single cell workflow with fast and gentle single cell sorting.* (@ Montpelier A)

3) Imaging

Doug Taatjes (U. of Vermont). *Reproducibility in publishing microscopy imaging data.* (@ Montpelier B)

Vendor talk: NanoString Technologies. *TBD.* (@ Montpelier B)

4) Research Facilities

Ying-Wai Lam (U. of Vermont). *Regional Analytical Resource Cores.* (@ Montpelier C)

Vendor talk: Alamar Biosciences. *High-sensitivity proteomics at the push of a button.* (@ Montpelier C)

2:45 pm: Afternoon break and Networking (@ Adirondack)

3:00 pm

Keynote 2: Bill Parker. *Creating prototype devices for novel research applications in the core lab.* (@ Green Mountain)

4:00 pm: Platinum talk: Illumina. *Enabling core laboratories to expand access to genomics.* (@ Green Mountain)

4:15 pm: Afternoon break and Networking (@ Adirondack)

4:30 pm: Concurrent Breakout Sessions, 1 hr./vendor talk 10 minutes

5) Spatial Transcriptomics

Sridar Chittur (Albany U.). *Spatial Transcriptomics, tales from the core.* (@ Green Mountain)

Vendor talk: Sampled. *TBD.* (@ Green Mountain)

6) Facilities

Nate Herzog (U. of Vermont). *Facility tools for enabling reproducible research: The Core Marketplace and the Micro Meta App.* (@ Montpelier A)

Vendor talk: Scale Biosciences. *Combinatorial indexing for single cell sequencing with CRISPR.* (@ Montpelier A)

7) Administration

Susanna Perkins (UMass Chan Medical School). *Cost saving measures in core facilities: options & experiences.* (@ Montpelier B)

8) Informatics

Ramiro Barrantes-Reynolds (U of Vermont). *Reproducibility in Bioinformatics.* (@ Montpelier C)

Vendor talk: IDT. *Not just oligos...IDT is here to help.* (@ Montpelier C)

5:45 pm to 7:15 pm: Vendor show and poster session (@ Adirondack)

7:15 pm - : Dinner on your own

9:30 pm - : NERLSCD afterdark. Drinks sponsored by Complete Genomics at the Beacon Bar & Lounge/Hilton Hotel.

FRIDAY, OCT-20TH

7:30 am- 12:00 pm REGISTRATION

9:00 am Concurrent Breakout Sessions, 1 hr./vendor talk 10 minutes

9) Caroline Shamu (Harvard U). *Labor disruptions: How to keep your core running as smoothly as possible through understaffed situations.* (@ Montpelier A)

10) Tim Hunter (UVM/BioTek, retired). *Transitioning from a career in academia to industry: Is the grass greener?* (@ Montpelier B)

Vendor talk: Singular Genomics. *G4 benchtop sequencer: enhance your core lab sequencing capabilities.* (@ Montpelier B)

11) Jonathan (Jon) Preall (Cold Spring Harbor Lab). *Artificial Intelligence (AI) in cores (ChatGPT and other Bioinformatic Tools.* (@ Green Mountain)

Vendor talk: Element Biosciences. *Expanding operational flexibility with new AVITI features and products.* (@ Green Mountain)

10:15 am: Morning break and Networking (@ Adirondack)

10:30 am Concurrent Breakout Sessions, 1 hr./vendor talk, 10 minutes

12) Multiomics

Stuart Levine (MIT). *Multiomics: war stories from the trenches.* (@ Green Mountain)

Vendor talk: 10x Genomics. *Maximize core resources: 10x innovations improved data quality, workflow flexibility, and continued support.* (@ Green Mountain)

13) FAIR Cytometry

Daniel Mielcarz (DartLab/Dartmouth Cancer Center). *FAIR Cytometry: Flow Cytometry in a Data-Sharing World.* (@ Montpelier A)

Vendor talk: Gator Bio. *Evaluating the versatility of Gator® Next Generation BL1 platform for biotherapeutic development and gene therapy.* (@ Montpelier A)

14) Mass Spec

Jeremy Balsbaugh (U Conn). *Integrating new and emerging analytical applications in mass spectrometry core facilities.* (@ Montpelier B)

Vendor talk: Waters Corporation. *New tools for MS imaging in core labs.* (@ Montpelier B)

15) Administration

Susanna Perkins (UMass) and Andrew Vinard (UMass). *Recruiting, Retention & Compensation – in a new landscape.* (@ Montpelier C)

Abstract: TBD

11:45 am: LUNCH and Networking Session (@ Montpelier and Adirondack)

12:45 pm: Platinum talk: Revvity (PerkinElmer). *The power of Fontus™ automation: Revvity's new liquid handling workstation.* (@ Green Mountain)

1:00 pm Roundtable

Emily Guswa (U of Vermont). *Advanced Tech Education: workforce development.* (@ Green Mountain)

2:00 pm: Concluding Remarks (@ Green Mountain).

**SEE YOU NEXT YEAR IN ALBANY!!
OCT 16-18, 2024. Crown Plaza-Albany-Desmond Hotel**