

# Omics Discovery Day

14 MAY 2025 | 9:30 AM | HOLIDAY INN, OXFORD, UNITED KINGDOM



Join us this May 14th at the Holiday Inn in Oxford for a day of learning, networking, and innovation. Unlock new insights during our full-day event dedicated to the latest advancements in genomics, transcriptomics, and proteomics, beginning with talks covering **key technologies**.

## Program Agenda

Arrival and Registration	8:30 AM
Scientific Talks	9:30 AM
Lunch	12:30 PM
<b>Workshops</b>	<b>1:45 PM – 3:45 PM</b>

WEDNESDAY, 14 MAY 2025

Secure your spot.  
Register today!

### WORKSHOP 1

#### Low Input Library Prep: Considerations and Tips

Max and Beth will cover tips and considerations, focusing on the Illumina® Oncology 500 solid and ctDNA assays and NEBNext® kits.

##### WHAT YOU WILL LEARN ABOUT:

- Sample extraction and preparation best practices
- Quality control metrics for sample input
- Sample input requirements for Illumina's TSO500 solid and ctDNA assays
- High level overview of TSO500 assays including workflow, sequencing, and analysis
- Library preparation and multiplexing with NEBNext
- Overview of library prep and multiplexing with NEBNext
- Sample requirements at Azenta/GENEWIZ for NEBNext kits
- Sample extraction and purification requirements for DNA and RNA
- Library prep workflows with NEBNext kits



**Beth Russell**,  
Field Application  
Scientist, Illumina



**Dr. Max Fritsch**,  
Field Application  
Scientist, NEB

### WORKSHOP 2

#### ONT Bacterial Whole Genome/ Methylation/Plasmid Sequencing

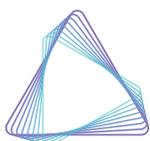
John Townes will delve into theory and workflow from applications through experimental design and analysis.

##### WHAT YOU WILL LEARN ABOUT:

- Introduction to workflows:
  - Nanopore theory
  - Applications
  - Experimental design
  - Library preparation
  - Data analysis
- Practical: Flow cell loading
- Demo: wf-metagenomics analysis
- Conclusion: Moving forward with Nanopore Sequencing



**John Townes**, Field Applications Scientist,  
Oxford Nanopore Technologies



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## PROGRAM AGENDA CONTINUED

### WORKSHOP 3

#### Bioinformatics for Transcriptomics and Single-Cell

Chris and Claudia will discuss the bioinformatics pipeline and common challenges in RNA-seq bioinformatics analysis, then follow with an introduction to 10x/single-cell analysis with an overview of analysis options and your choice to follow along with a live demo.

##### WHAT YOU WILL LEARN ABOUT:

- Evaluating sequence quality
- Trimming reads
- Mapping reads to a genome
- Generating hit counts for gene/exons
- Comparing gene hit counts
- Analyzing gene ontology
- 10x/single-cell analysis including:
  - Introduction to single-cell workflow
  - Overview of Cell Ranger algorithm for 10x single-cell analysis
  - 10x Cloud demo
  - Loupe Browser tutorial for data visualization and exploration, with option to follow along.



**Dr. Chris Bauser,**  
Team Lead,  
Bioinformatics



**Claudia Tamburini, Ph.D.,**  
Field Application Scientist,  
10x Genomics

### WORKSHOP 4

#### Olink®: Approaching Your First Proteomics Experiment

Janet Kenyon will dive into main considerations and workflow for Olink experiments with a case study walkthrough.

##### WHAT YOU WILL LEARN ABOUT:

- A recipe for success: sample choice, experimental design and analysis
- Publicly available tools to support your journey with Olink
- Taking biomarkers from discovery to clinical with Olink's Next Generation Sequencing proteomics
- Case study walkthrough



**Janet Kenyon, D.Phil,** Field Support  
Manager for UKI, Nordics and  
MEA Regions, Olink Proteomics

Drinks & Mingling

4:00 PM

## Event Accommodations

Venue location & where to stay:

*Holiday Inn, Oxford, United Kingdom*

## Contact

Reach out to Dora Quest via email for any questions or concerns.

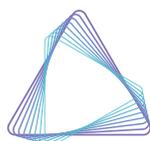
[dora.quest@azenta.com](mailto:dora.quest@azenta.com)

## REGISTER NOW TO SAVE YOUR SEAT

*Please note: registration spots are limited and will be allocated on a first-to-register basis. If your plans change, please let us know*



SCAN OR CLICK to register for the  
UK Omics Discovery Day Event



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