NANOPORE COMMUNITY MEETING 2023: HOUSTON **AGENDA**

The following pages will guide you through all we have in store for you at this year's event.

TECHNICAL CLINICS

One-to-one support session with our experts

FLOW CELL LOADING

Perfect your flow cell loading technique in this hands-on, expert-led demonstration

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ONLINE

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NCM Houston

NCM Houston

Wednesday 6th December 2023

08:00–09:00		**Pre-event activities**	
08:00–08:45 CST		**REGISTRATION AND BREAKFAST**	
08:00–08:30 CST		**POSTER REGISTRATION**	
09:00–10:35		**Session 1**	
09:00–09:15 CST		**WELCOME TO THE NANOPORE COMMUNITY MEETING 2023: HOUSTON** **Gordon Sanghera** | CEO, Oxford Nanopore Technologies	**AUDITORIUM**
09:15–09:40 CST		**PLENARY 1** Nanopore sequencing of cell-free DNA for methylation-based breast cancer detection **Billy Lau** | Stanford University School of Medicine, USA ■ CANCER RESEARCH ■ EPIGENETICS	**AUDITORIUM**
09:40–10:05 CST		**PLENARY 2** Future diagnostic potential for long-read sequencing as a single assay for imprinting disorders **Cate Paschal** | Seattle Children's Hospital & University of Washington, USA ■ HUMAN & CLINICAL RESEARCH ■ EPIGENETICS	**AUDITORIUM**

10:05–10:35 CST

LIGHTNING TALKS

AUDITORIUM

Liquid biopsy therapy response monitoring of pediatric high-grade gliomas
Jack Wadden | University of Michigan, USA
■ CANCER RESEARCH

De novo genome assembly of *Candida parapsilosis* from a case of neonatal sepsis
Per Aspera Adastra | Baylor College of Medicine & Texas Children's Hospital, USA
■ MICROBIOLOGY & INFECTIOUS DISEASE

Enrichment strategies for recovery of Avian influenza virus from samples using MinION
Maria Chaves | Iowa State University, USA
■ MICROBIOLOGY & INFECTIOUS DISEASE

On-site nanopore sequencing reveals microbial diversity of Colombian Pacific Coast mangrove soils
Felipe Báez Aguirre | University of the Andes, Colombia

10:35–11:35 **Poster networking break**

10:35–11:35 CST

FLOW CELL LOADING, CUSTOMER SERVICES, TECHNICAL CLINICS, PRODUCT TABLES

PRODUCT DISPLAY AREA

10:35–11:25 CST

POSTER NETWORKING

POSTERS

11:00–11:15 CST

MINI THEATRE

BREAKOUT ROOM 1

Setting new standards in clinical testing with nanopore sequencing and short-read WGS
Lucy Kaplun | Variantyx. Inc, USA
■ HUMAN & CLINICAL RESEARCH

11:35–12:35	Session 2: Breakouts	
11:35–12:35 CST	**BIOINFORMATICS** MethPhaser: methylation-based haplotype phasing of human genomes **Yilei Fu** | Rice University, USA ■ BIOINFORMATICS Haplotypes, isoforms, and fusions: towards a richer cancer transcriptome **Colette Felton** | University of California, Santa Cruz, USA ■ BIOINFORMATICS STRspy 2.0: unlocking the potential of long reads for forensic DNA profiles **Rupesh Kesharwani** | Baylor College of Medicine HGSC & University of North Texas HSC, USA ■ BIOINFORMATICS	**BREAKOUT ROOM 1**
11:35–12:35 CST	**INFECTIOUS DISEASE** Nanopore sequencing for enhanced antimicrobial resistance gene surveillance **Erin L. Young** | Department of Health and Human Services, State of Utah, USA ■ MICROBIOLOGY & INFECTIOUS DISEASE Metagenomic sequencing of air samples to identify human viral pathogens **Christina Newman** | University of Wisconsin-Madison, USA ■ MICROBIOLOGY & INFECTIOUS DISEASE Building and applying global pathogen surveillance in a post/peri-pandemic world **Noah C. Hull** | Association of Public Health Laboratories, USA ■ MICROBIOLOGY & INFECTIOUS DISEASE	**BREAKOUT ROOM 2**

11:35–12:35 CST

RARE AND COMPLEX DISORDERS

BREAKOUT ROOM 3

Understanding normal patterns of human structural variation with nanopore sequencing
J. (Gus) Gustafson | University of Washington, USA
■ HUMAN & CLINICAL RESEARCH

Unraveling complex Mendelian diseases with nanopore sequencing
Medhat Mahmoud | Baylor College of Medicine, Human Genome Sequencing Center, USA
■ HUMAN & CLINICAL RESEARCH

Potential personalized diagnosis and treatment of autism spectrum disorder in the era of long-read sequencing
Sarah Dada | Canada's Michael Smith Genome Sciences Centre & The University of British Columbia, Canada
■ HUMAN & CLINICAL RESEARCH

11:35–12:35 CST

CANCER RESEARCH

BREAKOUT ROOM 4

Analysis of melanoma evolution using nanopore long-read sequencing data
Yuelin Liu | University of Maryland & National Cancer Institute, USA
■ CANCER RESEARCH

GoT-Splice: unraveling cell-type-specific impact of splicing factor mutations
Mariela Cortés López | Weill Cornell Medicine & New York Genome Center, USA
■ CANCER RESEARCH
■ SINGLE-CELL

Nanopore sequencing reveal structural heterogeneity in canine osteosarcoma
Mikhail Kolmogorov | National Cancer Institute, NIH, USA
■ CANCER RESEARCH

12:35–13:45 **Lunch**

12:35–13:45 CST

FLOW CELL LOADING, CUSTOMER SERVICES, TECHNICAL CLINICS, PRODUCT TABLES

PRODUCT DISPLAY AREA

12:35–13:15 CST

NETWORKING LUNCH

TBC

13:10–13:25 CST		**MINI THEATRE** AmplideX PCR and nanopore sequencing for accessible carrier screening for any lab **Bradley Hall** | Asuragen, USA ■ HUMAN & CLINICAL RESEARCH	**BREAKOUT ROOM 1**
13:45–15:35		**Session 3**	
13:45–14:10 CST		**PLENARY 3** Update from the Applications team **Sissel Juul** | VP, Emerging and Commercial Applications, Oxford Nanopore Technologies	**AUDITORIUM**
14:10–14:35 CST		**PLENARY 4** Telomere dynamics in aging and cancer by nanopore long-read sequencing **Tobias T. Schmidt** | Salk Institute for Biological Studies, USA ■ CANCER RESEARCH	**AUDITORIUM**
14:35–15:00 CST		**PLENARY 5** 2043: a MinION space odyssey **Sarah Castro-Wallace** | NASA, USA ■ MICROBIOLOGY & INFECTIOUS DISEASE	**AUDITORIUM**
15:00–15:25 CST		**PLENARY 6** Improving bacterial disease public health testing with nanopore sequencing **Kimberlee Musser** | Wadsworth Center, New York State Department of Health, USA ■ MICROBIOLOGY & INFECTIOUS DISEASE	**AUDITORIUM**
15:35–16:20		**Coffee break**	
15:35–16:20 CST		**FLOW CELL LOADING, CUSTOMER SERVICES, TECHNICAL CLINICS, PRODUCT TABLES**	**PRODUCT DISPLAY AREA**
15:50–16:10 CST		**PRODUCT DEMO**	**PRODUCT DISPLAY AREA**

16:20–17:50		Session 4	
16:20–16:45 CST		**PLENARY 7** Complex phased variants in inherited retinal diseases with long-read sequencing **Debarshi Mustafi** | University of Washington, USA ■ HUMAN & CLINICAL RESEARCH	AUDITORIUM
16:45–17:45 CST		**UPDATE FROM OXFORD NANOPORE TECHNOLOGIES** Update from Oxford Nanopore Technologies **Rosemary Sinclair Dokos** | SVP, Product & Programme Management, Oxford Nanopore Technologies	AUDITORIUM
17:45–17:50 CST		**CLOSING REMARKS**	AUDITORIUM
17:50–19:30		**Evening networking event**	