NANOPORE COMMUNITY MEETING 2023: HOUSTON **ONLINE AGENDA**

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

ONSITE
These events are viewable on site

ONLINE
These events are viewable online

NCM Houston

NCM Houston

Wednesday 6th December 2023

07:45–09:00 Yesterday at NCM2023: Houston

07:45–08:45 CST
13:45–14:45 GMT
14:45–15:45 CET
05:45–06:45 PST
08:45–09:45 EST

DATA AFTER DARK

Dorado update
Joyjit Daw | Principal Machine Learning Engineer, Oxford Nanopore Technologies

Native RNA sequencing with RNA0004
Aino Järvelin | Bioinformatics Manager, Oxford Nanopore Technologies

Modified bases update
Marcus Stoiber | Principal Algorithms Researcher, Oxford Nanopore Technologies

EPI2ME
Matt Parker | Associate Director, Clinical Bioinformatics, Oxford Nanopore Technologies

09:00–10:35 Session 1

09:00–09:15 CST
15:00–15:15 GMT
16:00–16:15 CET
07:00–07:15 PST
10:00–10:15 EST

WELCOME TO THE NANOPORE COMMUNITY MEETING 2023: HOUSTON

AUDITORIUM

Gordon Sanghera | CEO, Oxford Nanopore Technologies

09:15–09:40 CST
15:15–15:40 GMT
16:15–16:40 CET
07:15–07:40 PST
10:15–10:40 EST

PLENARY 1

AUDITORIUM

Nanopore sequencing of cell-free DNA for methylation-based breast cancer detection
Billy Lau | Stanford University School of Medicine, USA

- CANCER RESEARCH
- EPIGENETICS

09:40–10:05 CST
15:40–16:05 GMT
16:40–17:05 CET
07:40–08:05 PST
10:40–11:05 EST

PLENARY 2

AUDITORIUM

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

10:05–10:35 CST
16:05–16:35 GMT
17:05–17:35 CET
08:05–08:35 PST
11:05–11:35 EST

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

10:45–13:30 Masterclasses

10:45–11:15 CST
16:45–17:15 GMT
17:45–18:15 CET
08:45–09:15 PST
11:45–12:15 EST

HOW TO GET STARTED WITH NANOPORE SEQUENCING AND PLAN YOUR EXPERIMENT

Learn everything you need to know to get started with nanopore sequencing. This masterclass provides an overview of the nanopore workflow, from extraction and library preparation through to analysis, with guidance on how to design your experiment.
Akelia Wauchope-Odumbo | Technical Services Manager – Americas

11:20–12:05 CST
17:20–18:05 GMT
18:20–19:05 CET
09:20–10:05 PST
12:20–13:05 EST

HOW TO EXTRACT HIGH-QUALITY DNA AND RNA

Find out how to get the best from your samples, with our masterclass detailing how to extract and store the highest quality DNA and RNA to achieve optimal sequencing performance in your experiment.
Vânia Costa | Field Applications Scientist

12:10–12:50 CST
18:10–18:50 GMT
19:10–19:50 CET
10:10–10:50 PST
13:10–13:50 EST

HOW TO GET STARTED WITH DATA ANALYSIS

Learn the principles of how to analyse nanopore sequencing data, including the file types involved, the platforms available for analysing your data, and how to basecall your data and detect methylation — no previous data analysis experience necessary.
Bryant Catano | Product Support Scientist

12:55–13:35 CST
18:55–19:35 GMT
19:55–20:35 CET
10:55–11:35 PST
13:55–14:35 EST

HOW TO PERFORM TUMOUR-NORMAL NANOPORE SEQUENCING

Find out how nanopore sequencing enables comprehensive analysis of cancer genomes in this end-to-end masterclass introducing how to perform tumour-normal sequencing.
Philipp Rescheneder | Director, Genomic Applications Bioinformatics

13:45–15:35 Session 3

13:45–14:10 CST
19:45–20:10 GMT
20:45–21:10 CET
11:45–12:10 PST
14:45–15:10 EST

PLENARY 3

AUDITORIUM

Update from the Applications team
Sissel Juul | VP, Emerging and Commercial Applications, Oxford Nanopore Technologies

14:10–14:35 CST
20:10–20:35 GMT
21:10–21:35 CET
12:10–12:35 PST
15:10–15:35 EST

PLENARY 4

AUDITORIUM

Telomere dynamics in aging and cancer by nanopore long-read sequencing
Tobias T. Schmidt | Salk Institute for Biological Studies, USA
■ CANCER RESEARCH

14:35–15:00 CST
20:35–21:00 GMT
21:35–22:00 CET
12:35–13:00 PST
15:35–16:00 EST

PLENARY 5

AUDITORIUM

2043: a MinION space odyssey
Sarah Castro-Wallace | NASA, USA
■ MICROBIOLOGY & INFECTIOUS DISEASE

15:00–15:25 CST
21:00–21:25 GMT
22:00–22:25 CET
13:00–13:25 PST
16:00–16:25 EST

PLENARY 6

AUDITORIUM

Improving bacterial disease public health testing with nanopore sequencing
Kimberlee Musser | Wadsworth Center, New York State Department of Health, USA
■ MICROBIOLOGY & INFECTIOUS DISEASE

15:35–16:20 From the Nanopore Community Meeting 2023: Singapore

15:35–16:20 CST
21:35–22:20 GMT
22:35–23:20 CET
13:35–14:20 PST
16:35–17:20 EST

PANEL PLENARY: A NEW ERA FOR TRANSLATIONAL RESEARCH

Measuring skewed X inactivation by adaptive nanopore sequencing
Quentin Gouil | Walter and Eliza Hall Institute of Medical Research, Australia

Investigating structural variations and complex cancer genomes using Oxford Nanopore sequencing
Marjan Naeini | Garvan Institute of Medical Research, Australia

Direct detection of DNA modifications in human cancer genomes
Genta Nagae | The University of Tokyo, Japan

16:20–17:50 Session 4

16:20–16:45 CST
22:20–22:45 GMT
23:20–23:45 CET
14:20–14:45 PST
17:20–17:45 EST

PLENARY 7

AUDITORIUM

Complex phased variants in inherited retinal diseases with long-read sequencing
Debarshi Mustafi | University of Washington, USA
■ HUMAN & CLINICAL RESEARCH

16:45–17:45 CST
22:45–23:45 GMT
23:45–0:45 CET
14:45–15:45 PST
17:45–18:45 EST

UPDATE FROM OXFORD NANOPORE TECHNOLOGIES

AUDITORIUM

Update from Oxford Nanopore Technologies
Rosemary Sinclair Dokos | SVP, Product & Programme Management, Oxford Nanopore Technologies

17:45–17:50 CST
23:45–23:50 GMT
0:45–0:50 CET
15:45–15:50 PST
18:45–18:50 EST

CLOSING REMARKS

AUDITORIUM