



NEXTGEN OMICS TECH & DATA 2026

14 - 15 May 2026
Novotel London West, London, UK

Register

Sponsor

United In Purpose: Where Omics Meets Data Analysis



10 Content Tracks
Across Two Days



10+ Hours of Pre-
arranged 1:1 Meetings



50+ Partners

1,000+
Attendees



50%
pharma/biotech

50%
academia/healthcare

COMPOSED OF 3 PROGRAMMES



NextGen Omics,
Data & Analysis



Multi-Omics
in Single Cell &
Spatial Analysis



Multi-Omics
Technologies
for Precision
Medicine

Over 80 Industry-Leading Speakers Including...



KEYNOTE SPEAKER, DAY ONE

AARNO PALOTIE

Research Director, Institute for Molecular Medicine Finland

'FinnGen: Leveraging Population-Scale Genomics & Health Registers For Clinical Discovery'

KEYNOTE SPEAKER, DAY TWO

MAIT METSPALU

Professor of Evolutionary Genomics; Director, Institute of Genomics,
University of Tartu

*'Bringing The Benefits Of Biobanking
Closer To The People'*



INTERACTIVE SESSION HIGHLIGHTS

Panel Discussion: Revolutionizing Multi-Omics With Artificial Intelligence

An interactive discussion at 12:15 on
Day Two, with panellists:

MICHELE VENDRUSCOLO,
Professor & Director Chemistry of Health
Laboratory, University of Cambridge

MARTA MILO,
Director of Computational Oncology,
Data Science & AI, AstraZeneca

Fireside Chat: The Trouble with Ancient DNA

ANNA HEGARDT KÄLLÉN,
Professor, Chair of Museology,
Associate Professor of
Archaeology, Umeå University

Explore how the parameters
of genetic science influence
the stories we tell about our
ancient ancestors, questioning
what narratives we can and
should take at face value.



DON'T MISS OUR POSTER AWARDS

NextGen Omics Young Scientist Poster Awards

Honouring outstanding scientific work by a PhD student,
PostDoc or early career scientists.

3 winners will be given a trophy, a £1,000 travel
bursary, access to our LifeScienceXchange Pass, and a
presentation position on Day Two.

[>> More Details](#)



WELCOME TO

NextGen Omics, Tech & Data 2026

Welcome to NextGen Omics, Tech & Data 2026, Oxford Global’s premier technology event bringing together leading innovators across omics research at the Novotel London West from 14 – 15 May.

Join us for two immersive days of expertly curated content addressing the most pressing challenges; spotlighting breakthrough innovations; and uncovering emerging technologies across three programmes:

NextGen Omics Data & Analysis, **Multi-Omics in Single Cell & Spatial Analysis**, and **Multi-Omics Technologies for Precision Medicine**.

This year’s event features an enhanced agenda with a strong focus on AI/ML and the revolution it is driving on the multi-omics landscape as well as highlighted content from Europe-wide population genomics initiatives that are shaping the way genomics data is used in healthcare systems.

Engage in high level discussions and tailored sessions that showcase the latest innovations that showcase the latest developments in AI and data integration through to single cell & spatial analysis and the application of multi-omics in the clinic. Hear insights from leading experts as they explore how AI driven tools are accelerating the integration of spatial and single-cell insights, enhancing the application of single-cell technologies in clinical development, and informing evolving strategies for utilizing spatial biology. Deep science sessions will examine how AI powered omics techniques and technologies are shaping clinical decision-making, disease understanding, and precision-guided therapies.

In addition to scientific presentations and interactive discussions, this event offers invaluable opportunities to network with industry leaders and stay at the forefront of the next generation of advancements that are set to transform the industry.

Mike Burden

Director of Production & Content –
Precision Medicine Brand, Oxford Global



LIFE SCIENCE XCHANGE
Connect x Learn x Collaborate
**Learn Faster.
Innovate Sooner.**



NEXTGEN OMICS
SPATIAL & DATA
2026

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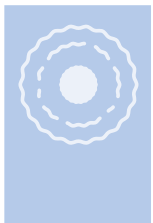


WHAT'S NEW

Benefits of Attending



Delve into the latest strategies for enabling successful multi-omics data integration. Presentations will demonstrate the roles that efficiency improvements, downstream processing, data streamlining, and artificial intelligence will have in harnessing the power of integrated data.



Gain insights into emerging spatial technologies and their applications across research & development. Key opinion leaders will be addressing the role of novel spatial technologies from biomarker discovery through to therapeutic and clinical development.



Explore advancements in single cell analysis. Hear how insights gained from single cell data are providing novel targets for investigation and infiltrating clinical decision making.



Discuss important considerations when choosing your sequencing and screening technologies. Sessions will address questions about which techniques suit particular experiments best and how to make the most of your results.



Benefit from cross-programme discussions on the multi-omics investment landscape, population genomics, academic & industry collaboration, and the role of women in the omics field. Join these diverse panels to hear a range of opinions and strategies and gain insights into where the future of multi-omics is headed.

DON'T MISS THESE Interactive Panels

NextGen Omics Data & Analysis

Creating Robust Omics Data Structures – Strategies & Implementation
Revolutionizing Multi-Omics With Artificial Intelligence

Multi-Omics in Single Cell & Spatial Analysis

Strategies for Scaling Up Spatial Research
Overcoming Computational Challenges of Bioinformatics in Single Cell & Spatial Studies
How to Optimise Single Cell Sequencing Approaches
Improving Spatial Resolution Across Modalities
Turning Single Cell Insights Into Novel Targets

Multi-Omics Technologies for Precision Medicine

Translating Omics Data To Clinical Trial Decisions
How To Choose Your Sequencing / Screening Technologies
Proteomic Approaches For Biomarker Discovery & Clinical Application

Cross-Programme

Academic & Industry Collaboration to Advance Multi-Omics
Navigating The Multi-Omics Investment Landscape: How Investors See The Future Of The Field
Unlocking Population Genomics With Large Scale Cohort Studies
Celebrating Women in Genomics

SPECIAL EVENT FEATURES

Big Attendance Meets Meaningful Connections



KEYNOTE SPEAKER, DAY ONE

AARNO PALOTIE

Research Director, Institute for Molecular Medicine Finland

'FinnGen: Leveraging Population-Scale Genomics & Health Registers For Clinical Discovery'



KEYNOTE SPEAKER, DAY TWO

MAIT METSPALU

Professor of Evolutionary Genomics; Director, Institute of Genomics, University of Tartu

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PANEL DISCUSSIONS

Revolutionizing Multi-Omics With Artificial Intelligence

Discover how industry and academia are approaching the AI revolution alongside:

- MICHELE VENDRUSCOLO, Professor & Director Chemistry of Health Laboratory, University of Cambridge
- MARTA MILO, Director of Computational Oncology, Data Science & AI, AstraZeneca

Translating Omics Data To Clinical Trial Decisions

Hear strategies for the implementation of multi-omics data in clinical research and development from:

- EUGENIE SUTER, Principal Medical Director, Hoffman-La Roche
- OLIVIA NONN, Senior Researcher, Charite Berlin
- ROBERT BRISTOW, Director of Manchester Cancer Research Centre & Professor, University of Manchester

How to Choose Your Sequencing / Screening Technologies

Discuss the best strategies for technology implementation across experiment and research types from thought leaders including:

- OLAF HORST RIESS, Professor & Director, Institute for Medical Genetics and Applied Genomics, University of Tübingen

POPULATION GENOMICS

Population Genomics is a key event focus: our two Keynotes will delve into FinnGen's 500,000 participant project, as well what the award-winning Estonian Biobank project can contribute to the field.

Other highlighted sessions include:

Closed Door Panel Discussion: Unlocking Population Genomics With Large Scale Cohort Studies

Discover how a variety of projects are leveraging population scale genomic data and fostering cross continent collaboration

Roundtable: Federated vs Centralised Genomic Data Infrastructures

Moderator: Mallory Freeberg, Team Lead, EMBL – EBI

Presentation: Multi-Omics Data Strategies Across National Networks

Hear from HANA LANGO ALLEN, Head of Data Strategy and Partnerships, Cambridge University Health Partners & Health Innovation East as she explores the impact of multi-omics data networks in healthcare



TECHNOLOGY BENCHMARKING PITCH

DAY ONE: 14.30 -16.00; 17:20 - 18:40

Technology Benchmarking: Multi-Omics, Data & Spatial Technology

Making sense of today's multi-omics, data and spatial technology landscape is increasingly complex. This fast-paced benchmark session is designed to help delegates cut through the noise.

In this **2-hour, technology-focused session**, selected solution providers will each deliver a **strictly timed 10-minute pitch**, following a common structure that enables direct comparison across platforms.

Delegates will gain:

- Rapid exposure to a broad range of technologies
- Clear insight into technical differentiation and real-world application
- A practical overview to inform evaluation, partnerships, or purchasing decisions

This session prioritises clarity, comparability, and technical substance over sales presentations and is moderated to ensure consistency and pace throughout.

Ideal for: Platform heads, bioinformatics leads, translational researchers, data scientists, innovation leaders, and technology evaluators.

WELCOME

HIGHLIGHTS

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WHY PARTNER WITH Oxford Global?

At Oxford Global, our mission is to curate personalised experiences that foster community and inspire innovation.

We believe in the power of networking, connection, and knowledge to deliver quality products and services that exceed expectations. Partnering with Oxford Global means having a dedicated team committed to helping you achieve your goals and navigating the industry's ever-changing landscape.

✓ Arrange 1:1 Meetings

Benefit from guaranteed one-to-one face time with your key prospects, with detailed pre-meeting information provided to enable effective and productive conversations.

✓ Speaking Opportunities

Showcase your company's recent work to a relevant and highly engaged audience.

✓ Host Panel & Roundtable Discussions

Feature alongside key opinion leaders to discuss current hot topics and highlight your company's expertise.

✓ Organise Workshops

Demonstrate best practice within the industry in front of your peers with case studies from your clients.

✓ Exhibit your Products & Solutions

Promote your offerings and ensure delegates know where to find you with a prominent brand presence in the exhibition hall.

✓ Digital Marketing & Lead Generation

Accessing the Oxford Global database, amplify your thought leadership and branding messaging through our digital content initiatives.

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PROGRAMME OVERVIEW

NextGen Omics Data & Analysis

Connect with leading innovators:

Gain direct access to top multi-omics leaders, including VPs, directors, and applied AI experts shaping the future of the field.

Stay ahead of scientific and technical advances:

Learn about cutting-edge progress in multi-omics data integration, from best practices in data handling to multimodal analysis and streamlined workflows.

Explore the growing impact of AI in multi-omics:

Dive into a new AI-focused track examining opportunities and challenges in applying generative AI to omics research, supported by panels, roundtables, and workshops.

VPs, Directors & Senior Managers from leading pharma & biotech companies and research institutions in the following fields and more:

- FAIR Data
- Data Integration
- Bioinformatics
- Data Standardization
- Data Analysis
- Big Data
- Spatial Analysis
- Single Cell Analysis
- AI

Formal and informal meeting opportunities offer delegates the chance to discuss key solutions with leading service providers. Formal 1:1 meeting opportunities will be available to arrange prior to the event which take place during the dedicated networking breaks covering:

- Machine Learning
- Generative AI
- Data Visualization
- Data Interpretation
- Bioinformatics Tools
- Data Sharing / Repositories
- Statistical Programming
- Quantum Computing
- Workflow Automation
- Data Processing
- Experimental Design Optimization
- FAIR Data

Day One

Track 1: Multi-Omics Data Integration, Harmonisation, & Analytics at Scale

- Integration of omics technology with big data
- Big data & omics paving the way for discovery
- Integration of transcriptomic, proteomic, metabolomic data
- Novel methods, approaches, & platforms for data integration
- AI driven multi-modal integration
- Translating data to trial decisions
- Creation of standardised and categorised integration approaches

Day Two

Track 1: AI & Machine Learning for Data-Driven Multi-Omics

- AI to reduce downtime, optimise production, minimize human error
- Computer vision & quantum computing capabilities
- Applying AI to image analysis & multi-modal data
- Accelerating ethical AI adoption
- AI to accelerate drug discovery
- AI as a multi-agent system
- Advancing disease models with AI and omics
- Predictive maintenance algorithms

“Very energising to see such a diverse group coming together from academia to biotech to pharmaceuticals to engage in very meaningful dialogue.”

- JUNMEI CAIRNS,
PRECISION MEDICINE DIAGNOSTIC
DEVELOPMENT & PRECISION MEDICINE LEAD,
ASTRAZENECA



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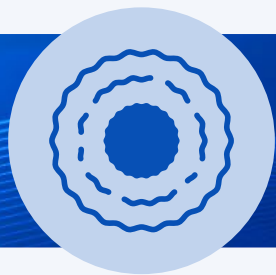
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PROGRAMME OVERVIEW

Multi-Omics in Single Cell & Spatial Analysis

Stay ahead of single-cell advancements:

Explore new technologies in single-cell imaging, benchmarking methods, clinical omics applications, and bioinformatics approaches.

Access new 2026 proteomics content:

Discover cutting-edge developments in translational proteomics, including its emerging roles in drug discovery, disease characterization, and diagnostics.

VPs, Directors & Senior Managers from leading pharma & biotech companies and research institutions in the following fields and more:

- | | | |
|------------------------|---------------------------|--------------------------|
| • Single Cell Analysis | • Spatial Genomics | • Molecular Medicine |
| • Cell Biology | • Spatial Transcriptomics | • Translational Medicine |
| • Cell Engineering | • Spatial Metabolomics | • Spatial Omics |
| • Image Analysis | • Spatial Proteomics | • Translational Science |
| • Bioinformatics | • Systems Biology | |

Formal and informal meeting opportunities offer delegates the chance to discuss key solutions with leading service providers. Formal 1:1 meeting opportunities will be available to arrange prior to the event which take place during the dedicated networking breaks covering:

- | | | |
|-------------------------------|--------------------------|------------------------------|
| • Spatial Imaging Platforms | • Proteome Analysis | • Single Cell Assays |
| • Spatial Data Analysis Tools | • Spatial Bioinformatics | • Single Cell RNA Seq |
| • Tissue Imaging & Prep | • Spatial Profiling | • Single Cell Imaging |
| • Single Molecule Imaging | • Spatial Mapping | • Single Cell Bioinformatics |
| • Cellular Analysis | • Spatial Proteogenomics | • Single Cell Data Analysis |
| | • Biomarker Profiling | |
| | • Single Cell Profiling | |

Day One

Track 2: Spatial Biology in Drug Discovery & Clinical Development

- Novel spatial methods, approaches and platforms for discovery and development
- Spatially resolved transcriptomics in oncology microenvironment
- Spatial biology to localise molecular changes for cell interaction insights
- Understanding treatment resistance with spatial techniques
- Capturing spatial multi-omics data with imaging

Track 3: Spatial & Single Cell Bioinformatics

- Bioinformatic approaches to spatial biology
- Integrating single cell & spatial data
- Overcoming computational challenges of bioinformatics
- Bioinformatics perspectives on transcriptomics
- Systematic benchmarking of bioinformatics

Track 4: Single Cell Analysis: Advanced Tools & Technologies

- Novel technologies for single cell imaging
- Computational tools for single cell analysis
- Updates from single cell multi-omics
- Single cell proteomics & metabolomics
- Implementation of AI

Day Two

Track 2: Novel Spatial Multi-Omics Technologies & Approaches

- Next gen metabolomics & epigenomics – including developing novel technologies for epigenome & metabolome analysis & advancements in quantifying expression
- High resolution profiling
- Spatial distribution within the cell
- Distribution of metabolites at spatial resolution
- Predictive maintenance algorithms

Track 3: Single Cell in Translational Drug Development & Clinics

- Novel applications of single cell technologies
- Understanding disease mechanisms at single cell resolution
- Identifying off-target effects
- Uncovering cellular heterogeneity
- Single cell analysis in clinical trials

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Multi-Omics Technologies for Precision Medicine

Advance your understanding of clinical genomics:

Gain insights into disease-prevention applications, variant validation and reproducibility, real-world clinical use cases, and emerging metagenomics approaches.

Discover the growing role of liquid biopsies:

Understand the clinical utility of liquid biopsy technologies across therapeutic areas, supported by panels and discussions on diagnostic and precision-medicine advances.

Dive into proteomics-focused programming:

Attend sessions highlighting proteomic applications across therapeutic areas and biomarker discovery

VPs, Directors & Senior Managers from leading pharma & biotech companies and research institutions in the following fields and more:

- NGS
- Multiplex Technologies
- Computational Biology
- Clinical Diagnostics
- Clinical Development
- Big Data
- Newborn Screening
- Precision Medicine
- Multiplex Tools
- Data Analysis

Formal and informal meeting opportunities offer delegates the chance to discuss key solutions with leading service providers. Formal 1:1 meeting opportunities will be available to arrange prior to the event which take place during the dedicated networking breaks covering:

- Library Preparation
- Bioinformatic Tools
- Next Gen Sequencing
- Computational Analysis
- Data Interpretation
- Clinical Development
- Multiplex Tools
- Data Analysis

Day One

Track 5: Multi-Omics for Precision Medicine & Clinical Advancement

- Clinical implementation of genomic medicine
- Delivering personalised cancer care
- Computational methods for human genetic diversity
- Progress on pangenomes & updates on new technologies and applications
- Clinical trials and real-world applications
- The role of multi-omics in precision therapeutics
- Advancing precision medicine beyond oncology

Day Two

Track 4: Advanced Sequencing & Screening Technologies in Clinical Diagnostics

- Next Generation Sequencing for advanced genetic diagnostics
- NGS as a facilitator of precision medicine & targeted treatment
- Mutation identification to guide therapy selection
- Reducing cost and improving access to NGS technologies across healthcare
- Genome mapping
- Whole genome, whole exome targeted and re sequencing techniques
- High throughput screening
- High content microscopy screening

Track 5: Proteomics in Translational Research & Biomarker Discovery

- Proteomics in disease detection, drug development & clinics
- Role of proteomics in the advancement of precision medicine
- Discovery & development of proteomic biomarkers
- Developing personalised treatment plans based on protein biomarker profiles
- Embedding proteomics into pharmaceutical R&D
- Proteomics for clinical diagnostics

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ALL PROGRAMMES

Confirmed Speakers

HIGHLIGHTED SPEAKERS



EUGENIE SUTER
Principal Medical
Director, Hoffman-
La Roche



**FRANCISCO
AZUAJE**
Director of
Bioinformatics,
Genomics England



HANA LANGO ALLEN
Head of Data Strategy
and Partnerships,
Cambridge University
Health Partners &
Health Innovation East



LILIANA GREGER
Senior Director of
Bioinformatics,
Amphista
Therapeutics



RICHARD TURNER
Senior Director,
Translational
Genetics &
Phenomics, GSK



GUGLIELMO IOZZIA
Director, ML/
AI & Applied
Mathematics, MSD



MARTA MILO
Director of
Computational
Oncology, Oncology
Data Science & AI,
AstraZeneca

AARNO PALOTIE

Research Director, Institute for
Molecular Medicine Finland

ALESSANDRO BONETTI

Director, Early Respiratory,
AstraZeneca

ALTUNA AKALIN

Professor & Head of
Bioinformatics, Max Delbrück
Center

ANNA HEGARDT KÄLLÉN

Professor, Chair of Museology,
Associate Professor of
Archaeology, Umeå University

ARIANNA SABÒ

Head of Research & Discovery,
Quantro Therapeutics

CLAUDIA WINKLER

Senior Scientist, AstraZeneca

CRYSTHIANE ISHIY

Senior Principal Scientist, GSK

EUGENIE SUTER

Principal Medical Director,
Hoffman-La Roche

FRANCISCO AZUAJE

Director of Bioinformatics,
Genomics England

GAIA CANTELLI

Director of Data Science,
Kidney Research UK

GEORGIY VINOGRADOV

Associate Director, Global
Data Strategy & Governance,
Novartis

GUGLIELMO IOZZIA

Director, ML/AI & Applied
Mathematics, MSD

HANA LANGO ALLEN

Head of Data Strategy and
Partnerships, Cambridge
University Health Partners &
Health Innovation East

JING BI

Associate Director, GSK

LILIANA GREGER

Senior Director of
Bioinformatics, Amphista
Therapeutics

MAIT METSPALU

Professor of Evolutionary
Genomics; Director, Institute of
Genomics, University of Tartu

MALLORY FREEBERG

Team Lead, EMBL – EBI

MARIANNE HENRY

Senior Scientist, Cell & Gene
Therapy Catapult

MARTA MILO

Director of Computational
Oncology, Oncology Data
Science & AI, AstraZeneca

MATT HALL

Senior Scientific Officer,
European Bioinformatics
Institute

MATT JACKSON-WOOD

Principal Scientist, Gilead
Sciences

MICHELE VENDRUSCOLO

Professor & Director Chemistry
of Health Laboratory, University
of Cambridge

OLAF HORST RIESS

Professor & Director, Institute
for Medical Genetics and
Applied Genomics, University of
Tübingen

OLIVIA NONN

Senior Researcher, Charite
Berlin

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MARTA MILO
Director of
Computational
Oncology, Oncology
Data Science & AI,
AstraZeneca

OLLI DUFVA
EMO/MSCA Postdoctoral Fellow,
Teichmann Lab, University of
Cambridge, Wellcome Sanger
Institute

PATRICK DESCOMBES
Senior Expert, Genomics, Nestle

RAGHDA ELDESOUKI
Associate Professor of Medical
Genetics, Suez Canal University

RICHARD TURNER
Senior Director, Translational
Genetics & Phenomics, GSK

ROBERT BRISTOW
Director of Manchester Cancer
Research Centre & Professor,
University of Manchester

SOPHIE KIRSCHNER
Associate Director, AstraZeneca

**TATJANA CRNOGORAC-
JURCEVIC**
Professor of Molecular
Pathology and Biomarkers,
Queen Mary University

RESERVED:
AMIR FEIZI
Head of Translational AI & Target
Discovery, Gero AI

RESERVED:
ANIA PISKORZ
Head of Genomics, Cancer
Research UK Cambridge
Institute

RESERVED:
CHRISTOPHER MAHONY
Assistant Professor, University
of Glasgow

RESERVED:
**FRANCESC FERNÁNDEZ
ALBERT**
Senior Director, R&D Data
Science, Almirall

RESERVED:
KEDAR NATARAJAN
Associate Professor at DTU
Bioengineering at Technical
University, Denmark

RESERVED:
MUSA MHLANGA
Professor, Radboud University

RESERVED:
DAME SUE HILL
Chief Scientific Officer, NHS
England

RESERVED:
VIRGINIA SAVOVA
Senior Director, Cell-Targeted
Precision Medicine, AstraZeneca

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PLACES LIMITED - REGISTER YOUR INTEREST

Registration Required Sessions

A space for senior decision-makers to move beyond public narratives: discuss what is actually working, what isn't, and why.
Select these sessions during your event registration to register your interest.

COLLABORATION HUB SESSIONS

DAY ONE

Collaboration Hub 1: Utilising Proteomics in Translational Research

Discussion Points:

Identifying the best course to integrate proteomic technology into clinical trials and validation efforts. Using proteomics as a tool to maximise translational research

Invited Specialists:

Technology developers, academic researchers, clinicians, healthcare administrators, technology/ knowledge transfer, regulatory officials, translational medicine experts

Moderator: RICHARD TURNER, Associate Director, Precision Medicine Lead, AstraZeneca

Collaboration Hub 2: Genomics Technology Updates

Discussion Points:

How to maximise the benefit of new technology in multi-omics and explore challenges around managing risk, ethical considerations, regulatory compliance and integrating into existing systems

Invited Specialists:

AI specialists, data scientists, translational scientists, clinicians, regulatory officials, bioethicists, IT infrastructure experts

Moderator: PATRICK DESCOMBES, Senior Expert, Genomics, Nestle

DAY TWO

Collaboration Hub 3: Overcoming Barriers to Technology Adoption/Transfer in Multi-Omics

Discussion Points:

How to align stakeholders and design strategies to overcome the challenges in adopting omics medicine technologies, such as cost, accessibility, technology transfer and integration into clinical workflows

Invited Specialists:

Technology developers, implementation specialists, knowledge/ technology transfer, healthcare administrators, clinicians, regulatory officials

Moderator TBA

Collaboration Hub 4: Multi-Centre Networks & Consortia for Genomic Medicine

Discussion Points:

Designing and sustain multi-centre networks that support, spatial biology, single cell, genomic data & precision medicine programmes; practical approaches to harmonising workflows across sites and sharing multi-modal data (omics, imaging and clinical) to generate robust, generalisable evidence

Invited Specialists:

Consortium directors, academic PIs, pharma translational leads, lab and biobank directors, bioinformaticians/data architects, digital pathology and spatial biology leads, hospital IT/informatics representatives

Moderator TBA

CLOSED-DOOR PANEL DISCUSSIONS

DAY ONE

Panel Discussion: Navigating The Multi-Omics Investment Landscape: How Investors See The Future Of The Field

- Recent changes and outlook
- Translating breakthrough science into investible ventures
- Navigating regulation, reimbursement, and real-world evidence
- Building investible omics companies

Moderator TBA

DAY TWO

Panel Discussion: Unlocking Population Genomics With Large Scale Cohort Studies

- Leveraging population scale genomic data
- Value of longitudinal health studies

Moderator TBA

Panellists:

MAIT METSPALU, Professor of Evolutionary Genomics; Director, Institute of Genomics, University of Tartu

AARNO PALOTIE, Research Director, Institute for Molecular Medicine Finland

TECHNOLOGY BENCHMARKING PITCH

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Technology Benchmarking: Multi-Omics, Data & Spatial Technology

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Day One | 14 May 2026

07:55

Registration Opens

09:00

Opening Keynote Address: Leveraging Population-Scale Genomics & Health Registers For Clinical Discovery

- FinnGen is a large-scale public-private partnership combining genomic data with longitudinal health registry data from over 500,000 participants in Finland
- The Nordic health register system enables lifelong follow-up of healthcare events since the 1960s, providing unique opportunities to study disease onset, progression, and outcomes
- The genetic characteristics of the Finnish population, together with close collaboration between academia, biobanks, hospitals, and 15 international pharmaceutical companies, enable novel insights into disease mechanisms and translational research

AARNO PALOTIE, Research Director,
Institute for Molecular Medicine Finland



Opening Keynote Address: From Bench to Bedside at Scale - NHS Genomic Medicine Service: Policy, Partnerships, and Real-World Pathways to Implementation



(Reserved) DAME SUE HILL, Chief Scientific Officer,
NHS England

NEXTGEN OMICS DATA
& ANALYSIS

MULTI-OMICS IN SINGLE CELL & SPATIAL ANALYSIS

MULTI-OMICS TECHNOLOGIES
FOR PRECISION MEDICINE

CONFERENCE ROOM 1:
MULTI-OMICS DATA INTEGRATION &
ANALYTICS AT SCALE

CONFERENCE ROOM 2:
SPATIAL BIOLOGY IN DRUG DISCOVERY
& CLINICAL DEVELOPMENT

CONFERENCE ROOM 3:
SPATIAL & SINGLE CELL
BIOINFORMATICS

CONFERENCE ROOM 4:
SINGLE CELL ANALYSIS: ADVANCED
TOOLS & TECHNOLOGIES

CONFERENCE ROOM 5:
MULTI-OMICS FOR PRECISION
MEDICINE & CLINICAL ADVANCEMENT

*Track Chair: AM –
JOANA RODRIGUES SIMOES DA COSTA,
Lecturer at South Bank University*

Track Chair: TBA

Track Chair: TBA

Track Chair: TBA

Track Chair: TBA

**Track Keynote Address: Multi-Omics
Data Strategies Across National
Networks**

HANA LANGO ALLEN, Head of Data
Strategy and Partnerships,
**Cambridge University Health
Partners & Health Innovation East**

**Track Keynote Address: Spatial
Transcriptomic Tools for Drug
Discovery**

ARIANNA SABÒ, Head of Research &
Discovery,
Quantro Therapeutics

**Track Keynote Address: Innovations
In Bioinformatic Approaches To
Spatial Biology**

**Track Keynote Address: Predicting
Cell Fate Decisions From Longitudinal
Single-Cell Transcriptomics In Paediatric
Acute Myeloid Leukaemia Patients**

GUGLIELMO IOZZIA, Director, ML/AI &
Applied Mathematics,
MSD

**Track Keynote Address: Taking
Genomics Data To The Clinic**

EUGENIE SUTER, Principal Medical
Director,
Hoffman-La Roche

09:30

Q&A session & transition time between conference rooms

09:55

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10:20

MORNING BREAK & REFRESHMENTS

11:40



1-2-1 Meetings x4



Poster Displays

11:40

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Q&A session & transition time between conference rooms

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**Advancing BRD9 Targeted GlueTM
Mechanism Of Action In AML Via
Multi-Omics Approach**

- Amphista therapeutics is developing a proprietary Targeted GlueTM technology which induces degradation by target-assisted E3 ligase recruitment
- In this presentation, I will showcase how Amphista is applying multi-omics approaches for understanding degraders' mode of action and validating clinical biomarkers
- As an example, I will use Amphista's clinical development candidate for AML targeting the epigenetic regulator BRD9

LILIANA GREGER, Senior Director of Bioinformatics,
Amphista Therapeutics

Spatially Resolved Transcriptomics

(Reserved) MUSA MHLANGA, Professor,
Radboud University

**Integrating Single Cell & Spatial
Data**

(Reserved) FRANCESC FERNÁNDEZ ALBERT,
Senior Director R&D Data Science,
Almirall

**Practical Application Of Single-Cell
Technologies For Large Molecule
Drug Development**

- A highlight of practical applications of single-cell technologies along the drug development pipeline
- Developing atlases to accelerate target ID and functional validation
- Moving past RNA to direct protein quantification on cells

MATT JACKSON-WOOD, Principal
Scientist,
Gilead Sciences

**DECIPHERing Genomic Data:
Applying FAIR Principles And
Standards For Clinical Impact**

MALLORY FREEBERG, Team Lead,
EMBL – EBI

**Panel Discussion: Creating Robust
Omics Data Structures – Strategies
& Implementation**

- Designing data models that scale across omics layers
- Balancing standardization with innovation
- Data infrastructure and governance

Panellists:
GAIA CANTELLI, Director of Data Science,
Kidney Research UK

Q&A session & transition time between conf. rooms

**Data Governance & Large-Scale
Cloud Platforms**

GEORGIY VINOGRADOV, Associate
Director, Global Data Strategy &
Governance,
Novartis

**Panel Discussion: Strategies For
Scaling Up Spatial Research**

- Building scalable data & computational foundations
- Leveraging partnerships and platforms
- Engineering for interoperability and performance

Panellists TBA

**Panel Discussion: Overcoming
Computational Challenges of
Bioinformatics In Single Cell &
Spatial Research**

- Application of advanced AI models to complex bioinformatics challenges
- Integration and optimisation of deep learning methodologies
- Ensuring high standards of accuracy, computational efficiency, and interpretability in analytical outcomes

Panellists:
GUGLIELMO IOZZIA, Director, ML/AI &
Applied Mathematics, **MSD**

**Decoding Every Cell: Single-Cell
Genomics & Transcriptomics
Powering Oncology Trials**

- Single-cell, dual-omics profiling: parallel genome and transcriptome analysis
- Accelerating translational research and clinical development with clinical-grade multiomics
- Comprehensive oncology readouts: simultaneous scRNA-seq with DNA sequencing (WGS, WES, and targeted hotspot panel sequencing) on clinical tissues

CLAUDIA WINKLER, Senior Scientist,
AstraZeneca

Q&A session & transition time between conf. rooms

Optimising Single Nuclei Isolation

**Panel Discussion: Translating Omics
Data To Clinical Trial Decisions**

- Ensuring clinical developments in under-represented therapeutic areas
- When does omics data become robust enough to influence trial design
- Cross functional team requirements for success

Panellists:
EUGENIE SUTER, Principal Medical
Director, **Hoffman-La Roche**
OLIVIA NONN, Senior Researcher,
Charite Berlin
ROBERT BRISTOW, Director of
Manchester Cancer Research Centre &
Professor, **University of Manchester**

LUNCH BREAK & REFRESHMENTS



1-2-1 Meetings x3



Technology Showcase

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n6 Presentation



Senior Representative,
n6

Q&A session & transition time between conf. rooms

Glencoe Software Presentation



Senior Representative,
Glencoe Software



Senior Representative,
Vizgen

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Cytosurge Presentation



Senior Representative,
Cytosurge

Twist Biosciences Presentation



Senior Representative,
Twist Biosciences

Q&A session & transition time between conference rooms

AI Integration For Biomarker
Discovery

MARIANNE HENRY, Senior Scientist,
Cell & Gene Therapy Catapult

Q&A session & transition time between conference
rooms

Moving Spatial Biology Toward the
Clinic

Bioinformatics Perspectives On
Transcriptomics

**Panel Discussion: How To Optimize
Single Cell Sequencing Approaches**

- Single cell technology comparison – what to use and when
- Innovative techniques to enhance resolution and accuracy
- Uncovering & identifying novel and rare cell types

Clinical Genomics As A Service

FAIRness And Then What? Building
Infrastructure For Reuse - A Disease
Specific Exemplar In Kidney Disease

GAIA CANTELLI, Director of Data Science,
Kidney Research UK

Integrating Spatial Omics Clinical
Cohorts & Organoid Modelling
Research

Systematic Benchmarking Of
Bioinformatics

Population-Scale Single-Cell
Atlas For Next-Generation Blood
Diagnostics

- Single-cell genomics offers unprecedented resolution in blood diagnostics with potential for mechanistic understanding into underlying causes of blood abnormalities
 - Population-scale single-cell atlases of human blood spanning ~6,000 individuals across multiple biobanks lay the groundwork for next-generation blood diagnostics and for detecting outlier phenotypes across tissues beyond blood
- OLLI DUFVA, EMO/MSCA Postdoctoral Fellow, Teichmann Lab, University of Cambridge,
Wellcome Sanger Institute

AFTERNOON BREAK



1-2-1 Meetings x4

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CROSS PROGRAMME FEATURES

17:20	Cross Programme Panel Discussion: Celebrating Women in Genomics • Highlighting contributions by women advancing genomics and multi-omics research, from discovery science to clinical translation • Progress and persistent gaps in representation, leadership, funding, and visibility mentorship models, career pathways, and actionable strategies to support the next generation of women in genomics	Cross Programme Session: Start Up Zone Pitches Discover the future of omics research at our Start-Up Zone - an exciting launchpad for pioneering start ups at the forefront of multi-omics, single cell, spatial biology, and NGS. Whether you are pitching your breakthrough, demoing cutting edge technology, or forging game-changing partnerships, this is your moment to shine. Are you ready to take your opportunity to engage with seasoned experts and forward thinking investors? Find out how to apply here!
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Q&A session & transition time between conference rooms

18:10	Cross Programme Fireside Chat: The Trouble with Ancient DNA ANNA HEGARDT KÄLLÉN, Professor, Chair of Museology, Associate Professor of Archaeology, Umeå University
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CLOSE OF DAY ONE

18:40	Networking Drinks Announcement of Young Scientist Poster Award Winners
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08:15	Registration Opens				
08:15	Breakfast Session: Women in Genomics - Continue the Conversation Come together for the opportunity to discuss with leading women in the field about their career journeys, research goals, and breaking the glass ceiling, following the Day One ‘Celebrating Women in Genomics’ Panel Discussion.				
09:00	Plenary Keynote Address: Bringing The Benefits Of Biobanking Closer To The People The Estonian Biobank (EstBB) has 212,000+ participants, advancing genomic discovery while enabling national data-driven personalized medicine. Its MyGenome Participant Portal returns clinically relevant findings: polygenic risk for type 2 diabetes and coronary artery disease, CPIC-aligned pharmacogenetics for 37 drugs, and ancestry summaries, integrating EHR and lifestyle data. Implemented as an in-house medical device under EU IVDR Article 5(5), it reached 70,000 users in week one and 88,000 in three months. MAIT METSPALU, Professor of Evolutionary Genomics; Director, Institute of Genomics, University of Tartu				
09:40	NEXTGEN OMICS DATA & ANALYSIS	MULTI-OMICS IN SINGLE CELL & SPATIAL ANALYSIS		MULTI-OMICS TECHNOLOGIES FOR PRECISION MEDICINE	
	CONFERENCE ROOM 1: AI & MACHINE LEARNING FOR DATA DRIVEN MULTI-OMICS	CONFERENCE ROOM 2: NOVEL SPATIAL TECHNOLOGIES & APPROACHES	CONFERENCE ROOM 3: SINGLE CELL ANALYSIS IN TRANSLATIONAL DRUG DEVELOPMENT	CONFERENCE ROOM 4: ADVANCED SEQUENCING & SCREENING TECHNOLOGIES IN CLINICAL DIAGNOSTICS	CONFERENCE ROOM 5: PROTEOMICS IN BIOMARKER DISCOVERY & TRANSLATIONAL RESEARCH
	Track Chair: TBA	Track Chair: TBA	Track Chair: TBA	Track Chair: TBA	Track Chair: TBA
	Track Keynote Address: Ensuring AI Safety With Genomic Data FRANCISCO AZUAJE, Director of Bioinformatics, Genomics England	Track Keynote Address: Prostate Cancer Multi-Omics Informs On Hypoxia-Mediated Clonal Selection During Tumour Evolution - Hypoxia is an adverse prognostic factor in solid tumours - Spatial transcriptomics married to inferCNV in clinical samples can inform on aggressive tumour cell evolution niches - Tumour cells can acquire resistance to an hypoxic microenvironment through modification of cancer driver genes and DNA repair leading to metastases ROBERT BRISTOW, Director of Manchester Cancer Research Centre & Professor, University of Manchester	Track Keynote Address: Single Cell Transcriptome Heterogeneity (Reserved) VIRGINIA SAVOVA, Senior Director, Cell-Targeted Precision Medicine, AstraZeneca	Track Keynote Address: Identification & Validation Of Non-Coding Pharmacological Targets ALESSANDRO BONETTI, Director, Early Respiratory, AstraZeneca	Track Keynote Address: Proteomics In Translational Cancer Research TATJANA CRNOGORAC-JURCEVIC, Professor of Molecular Pathology and Biomarkers, Queen Mary University
	Q&A session & transition time between conference rooms				
10:05	Silver Level Solution Provider Presentation For sponsorship opportunities please contact sponsorship@oxfordglobal.com	Silver Level Solution Provider Presentation For sponsorship opportunities please contact sponsorship@oxfordglobal.com	Silver Level Solution Provider Presentation For sponsorship opportunities please contact sponsorship@oxfordglobal.com	Silver Level Solution Provider Presentation For sponsorship opportunities please contact sponsorship@oxfordglobal.com	RESERVED
10:25 - 11:45	MORNING BREAK & REFRESHMENTS  1-2-1 Meetings x4  Technology Showcases x2				

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CONFERENCE ROOM 5:
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Q&A session & transition time between conference rooms

nygen Presentation



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Single Cell Discoveries Presentation



Senior Representative,
Single Cell Discoveries

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Q&A session & transition time between conference rooms

Panel Discussion: Revolutionizing
Multi-Omics With Artificial
Intelligence

- Changing ways of thinking with the opportunities provided by AI
- What 'unanswerable' questions could be reconsidered?

Panellists:
MICHELE VENDRUSCOLO, Professor &
Director Chemistry of Health Laboratory,
University of Cambridge
MARTA MILO, Director of Computational
Oncology, Data Science & AI,
AstraZeneca
RAGHDA ELDESOUKI, Associate
Professor of Medical Genetics, **Suez
Canal University**

Panel Discussion: Improving Spatial
Resolution Across Modalities

- Improving spatial proteomic and metabolomic data quality
- Technology benchmarking & comparison
- Importance of technology compatibility
- Integrating modalities for holistic understanding

**Navigating Single Cell Data In
Therapeutic Development**

JING BI, Associate Director,
GSK

Q&A session & transition time between conf rooms

**Single Cell Omics To Understand The
Role Of The Placenta In Preeclampsia**

OLIVIA NONN, Senior Researcher,
Charite Berlin

Panel Discussion: How To Choose
Your Sequencing / Screening
Technologies

- Long vs short read sequencing
- Which techniques suit different experiments best – transcriptomics, proteomics, epigenomics
- Using sequencers in the clinic

Panellists:
OLAF HORST RIESS, Professor &
Director, Institute for Medical Genetics
and Applied Genomics, **University of
Tubingen**

Proteomic Target Identification

Q&A session & transition time between conf rooms

**Applications Of Single Cell
Proteomics**

LUNCH BREAK & REFRESHMENTS



1-2-1 Meetings x3



Technology Showcase

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DISCOVERY & TRANSLATIONAL
RESEARCH

Cross Programme Panel Discussion:
**Academic & Industry Collaboration
To Advance Multi-Omics**

- Combining isolated datasets from different organisations
- Accelerating innovation through shared expertise and resources

Panellists:

MATT HALL, Senior Scientific Officer,
European Bioinformatics Institute

Cross Programme Session: Young Scientist Awards - Winner Presentations

Hear from the top five entries in our Young Scientist Poster Award competition as evaluated by our panel of key opinion leaders
The top 3 entries will also receive a trophy, £1000 contribution to travel costs, and complimentary access to our LifeScience Exchange Pass
Interested in joining the poster? [Find more information and the form to apply here.](#)

Roundtable Sessions

Roundtable 1:
**Federated vs Centralised Genomic
Data Infrastructures**

Moderator: MALLORY FREEBERG, Team
Lead, EMBL – EBI

Roundtable 2:
Combining Spatial Instruments

Moderator TBA

Q&A session & transition time between conf rooms

**Using AI Models & Omics Data
To Fill Knowledge Gaps & Predict
Patient Response**

MARTA MILO, Director of Computational
Oncology, Data Science & AI,
AstraZeneca

**Novel Spatial Multi-Omics Tools For
Cancer Applications**

(Reserved) ANIA PISKORZ, Head of Genomics,
**Cancer Research UK Cambridge
Institute**

**Panel Discussion: Turning Single Cell
Insights Into Novel Targets**

- How to best use multi-omics data to gain new insights
- Developing single cell and spatial data results into actional targets and biomarkers

Panellists:

MATT JACKSON-WOOD, Principal
Scientist, **Gilead Sciences**
OLLI DUFVA, EMO/MSCA Postdoctoral
Fellow, Teichmann Lab, University of
Cambridge, **Wellcome Sanger Institute**

**New Transcriptomic-Based
Phenotypic Screening Platforms**

Q&A session & transition time between conf. rooms

**How To Choose Your Sequencing
Technology**

**Panel Discussion: Proteomic
Approaches For Biomarker
Discovery & Clinical Application**

- Clinical relevance of proteomics in precision medicine
- Reviewing proteomic approaches across therapeutic areas
- Biomarker discovery using proteomic profiling

Q&A session & transition time between conference rooms

**Integrating Omics Technologies
With Big Data**

ALTUNA AKALIN, Professor & Head of
Bioinformatics,
Max Delbrück Center

**Using Spatial Data In Non-Clinical
Histology Projects**

CRYSTHIANE ISHIY, Senior Principal
Scientist,
GSK

Q&A session & transition time between conference rooms

Ethical Debates & Considerations

MICHELE VENDRUSCOLO, Professor
& Director Chemistry of Health
Laboratory,
University of Cambridge

Where Will Metabolomics Take Us?

**Adaptive Reaction Of “My Personal
Genome” To Different Vaccinations
And Infection During The COVID-19
Pandemics**

- In this unique study, we describe that the immune dynamic to 6 different types of vaccinations and SARS-CoV-2 infections in a single individual over a 5-years period during COVID-19 pandemics and post-pandemic
- Our data proves that scRNA-seq analyses are of high value as biomarker prediction in clinical settings
- The study provides a resource for designing personalized therapy studies and sets a gold-standard for future individual reference-based studies in cancer, infection, immune diseases, and aging

OLAF HORST RIESS, Professor &
Director, Institute for Medical Genetics
and Applied Genomics,
University of Tübingen

Using Sequencers In The Clinic

Proteomic Target Identification

End of Conference

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