

CONFERENCE BROCHURE

SPATIAL BIOLOGY UK 2024

18 - 19 March 2024 | London, Uk

Bringing together 250+ thought leaders in the field of spatial biology, from global academic & research organisations to pharma representatives, Oxford Global's 4th Annual Spatial Biology Congress is the place to engage with the latest developments in spatial technologies and approaches.

Book Now 

Key Speakers Include



MARTIN ISABELLE,
Associate Director,
Tumor Profiling and
Mechanistic Biology,
Adaptimmune



WEI-TING CHEN,
Head of Discovery
Biology, Muna
Therapeutics



ANDREAS SPITZMÜLLER,
Director, Spatial Data
Science, AstraZeneca




JULIA JONES
Scientific Manager,
University of
Cambridge



RAFFAELE CALOGERO,
Professor of Molecular
Biology, University of
Torino



More Information: www.oxfordglobal.com/spatial-biology-uk

 @OGConferences





WELCOME TO

Spatial Biology UK 2024

Oxford Global are pleased to share with you the 2024 programme for the 4th Annual Spatial Biology Congress in London, 18-19 March 2024.

The spatial biology market is experiencing explosive growth thanks to the latest developments in spatial technologies such as AI, advanced imaging, and data analysis techniques, as well as new and exciting applications within the clinic. However, challenges still remain pertaining to the classification of spatial data and how to most effectively integrate multi-omic spatial technologies into the clinical setting. This key spatial-omics focused event is full of engaging programme features such as cutting-edge presentations and interactive sessions including panel discussions, workshops, and roundtables. Do not miss out on attending this 2- day congress where you will have a unique opportunity to discuss these areas that are pushing the spatial field to the forefront of scientific research.

Benefits to Attending

-  **Discuss the latest innovations in emerging multi-omics techniques.** Presentations will delve into advanced approaches to spatial transcriptomics, proteomics, lipidomics, and metabolomics.
-  **Discover how AI and image analysis are driving spatial innovation.** Discuss the latest technologies including unsupervised AI, multiplexed tissue imaging, and digital innovations in proteome analysis to uncover how, when combined with spatial biology, are accelerating discovery.
-  **Gain comprehensive insights into the integration of spatial biology within the pharmaceutical industry and the clinic.** Presentations from industry leaders will be covering the adoption of spatial techniques within translational research, target discovery, biomarker development, and precision medicine.
-  **Join a series of workshops, roundtables, & panel discussions.** Interactive session topics will include: 'Addressing the Future Needs of Spatial Omics', 'Digital Innovations In Spatial Proteome Analysis', and 'Exploring Novel Application Areas in Therapeutics for Spatial Technologies'.



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ATTENDEES

Network and Knowledge-share

250+ VPs, Directors & Senior Managers will be attending on-site and online, coming from leading healthcare, biotech, pharma and research institutions in the following fields and more:

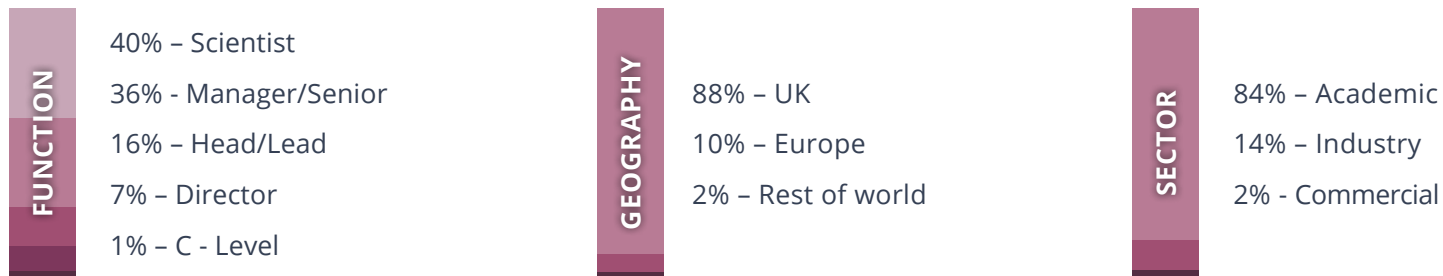
- Spatial Genomics
- Spatial Transcriptomics
- Clinical Genomics
- Systems Biology
- Molecular Medicine
- Bioinformatics
- Spatial Metabolomics
- AI/ML
- Computational Biology
- Clinical Applications
- Spatial Proteomics
- Spatial Profiling

Formal and informal meeting opportunities offer delegates the chance to discuss key solutions with leading service providers. Formal 1-2-1 meeting opportunities will be available to arrange prior to the event which take place during the dedicated refreshment (networking) breaks covering:

- Imaging Platforms
- Data Analysis Tools
- Spatial Genomics
- Spatial Gene Expression
- Software for Digital Pathology
- AI/ML
- Spatially Resolved Resolution
- Spatial Multi-Omics
- Spatial Proteomics
- Spatial Profiling
- Spatial Metabolomics
- AI/ML

Previous Attendee Profile

(Stats from Spatial Biology UK 2023)



Attended by these companies & many more:



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Explore Curated & Insightful Content

Spatial Biology UK 2023 features **2 days** of in-person cutting-edge presentations and knowledge-sharing, including **over 60** industry insights, sponsored presentations & think tank roundtable discussions.

Day One | 18 March 2024

Track 1: Spatial Multi Omics Techniques & Approaches

- Translating spatial imaging techniques & approaches into clinics
- Transcriptomics, metabolomics & proteomics: techniques & approaches
- Single-cell transcriptome imaging
- Multi-modality processing

Track 2: Spatial Biology in Pharma & Translational Drug Research

- Accelerating drug discovery & development processes with advanced spatial tools
- Precision medicine
- Biomarker identification
- Adoption of translational drug research
- Spatial multiplexed imaging for disease characterization
- Adoption and utilization of AI/ML for spatial analyses in pharma R&D
- Spatial technologies for diagnostics purposes and clinical development

Day Two | 19 March 2024

Track 1 Part 1: Image Analysis, AI-Powered Imaging & Digital Pathology for Spatial Biology

- Accelerating the discovery of novel biomarkers and drug targets using spatial imaging
- Tissue imaging and analysis using advanced spatial profiling techniques
- AI guided technology for spatial analysis
- Workshop: Digital Innovations In Spatial Proteome Analysis
- Imaging data analysis / how to set a spatial experiment
- Relevant spatial parameters in different model systems

Track 1 Part 2: Spatial Bioinformatics, Data Analytics and Interpretation

- Utilizing spatial data in biology
- Cell-cell interactions
- Overcoming the challenges in spatial data analysis
- Data integration & visualisation
- Spatial transcriptomic datasets
- Data access & standardization
- How do you translate AI/ML approaches into the clinical trials
- Data handling / generating insights

Track 2: Applications of Spatial Research & Technologies in Biology

- Case studies from the areas of:
 - » Cardiovascular diseases
 - » Regenerative medicine
 - » Oncology
 - » Neurobiology & neurodegenerative diseases
 - » Infectious diseases
 - » Immunological diseases

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MEET THE KEY SPEAKERS

Connect with Industry Influencers

Attracting leading experts & the brightest minds in the industry to educate, inform and excite our attendees.

The following are confirmed Key Speakers for Spatial Biology UK 2024.



ANDREAS SPITZMÜLLER,
Director, Spatial Data Science,
AstraZeneca

Day One

08:50 Characterising Cellular Interactions And How To Test Their Significance



MICHALINA MAZURCZYK, Facility Manager, Centre for Medicines Discovery

Day One

09:10 Suspension And Imaging Mass Cytometry As A Facility Service



JULIA JONES, Scientific Manager, University of Cambridge

Day Two

15:30 Hedgehog Signalling In Thymic Differentiation – An In Situ Single Cell Resolution Investigation



SAM JACKSON, Tools and Technology Platforms Manager, UK Dementia Research Institute

Day Two

14:30 Data Access And Democratisation In Spatial Biology

Programme Highlights

Interactive Sessions

- ✓ Panel Discussion: Spatial Biology In Pharma Research & Development
- ✓ Panel Discussion: Advancements In Spatial Data Analysis
- ✓ Workshop: Digital Innovations In Spatial Proteome Analysis
- ✓ Roundtable Session: Predictive Biomarkers In The Age of Spatial Biology

Key Presentations

- ✓ Targeting The Tumour Microenvironment – Assessing The Impact Of Cell-Based Therapies In Solid Tumours Through Multiplex And Spatial Biology
- ✓ Multi -Omic Utilisation Of Spatial Tech For Understanding The Extra-Cellular Matrix
- ✓ Spatial Analysis Methods For Highly Multiplexed Imaging Data With Example Biomarker Applications
- ✓ Spatial Transcriptomic Profiling Of Placental Tissue For Disease

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CONFIRMED SPEAKERS: DAY ONE

Gain Expertise from Thought Leaders

RAFFAELE CALOGERO,

Professor of Molecular Biology, University of Torino

NIK MATTHEWS,

Head of Imperial BRC Genomics Facility, Imperial College London

JOHN LE QUESNE

Professor in Molecular Pathology, University of Glasgow

ANDREAS SPITZMÜLLER

Director, Spatial Data Science, AstraZeneca

NIGEL JAMIESON

Professor of Surgery, University of Glasgow

MARTIN ISABELLE

Associate Director, Tumour Profiling and Mechanistic Biology, Translational Sciences, Adaptimmune

MICHALINA MAZURCZYK

Facility Manager, University of Oxford

LEO CARLIN

Group Leader Leukocyte Dynamics / Head of Beatson Advanced Imaging Resource, University of Glasgow

MICHAEL EYRES

Lead Scientist - Spatial Biomarkers, Medicines Discovery Catapult

OLIVIER CEXUS

Principal Investigator, University of Surrey

ILARY ALLODI

Group Leader & Assistant Professor, University of St Andrews

WEI-TING CHEN

Head of Discovery Biology, Muna Therapeutics

THEODOROS XENAKIS

Research Fellow, University College London

CARA BRODIE

Senior Scientific Associate, University of Cambridge

FABIAN COSCIA

Group Leader, MDC Berlin

SEBASTIAN BERGLING

Senior Data Scientist, Novartis Institute for Biomedical Research

ANDREAS MUND

Associate Professor, University of Copenhagen

GARETH MUIRHEAD

Associate Director, Lead Bioinformatician, Engitix Therapeutics

MARTIN FERGIE

Lecturer in Health Data Science, University of Manchester

KASPER THORSEN,

Manager, Single-Cell Core Center, Aarhus University

SARA NEWELL,

Clinical Specialist, Aarhus University

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CONFIRMED SPEAKERS: DAY TWO

Gain Expertise from Thought Leaders

YARA SÁNCHEZ CORRALES,

Computational Research Fellow, University College London

STUART MCDONALD,

Group Leader and Reader in Gastrointestinal Biology, Barts Cancer Institute, Queen Mary University London

MINAL PATEL

Spatial Operations Manager, Sanger Institute

CATIA COSTA

Senior Research Fellow, University of Surrey

JAMES BOOT

Bioinformatician, Queen Mary University London

SAM JACKSON

Tools and Technology Platforms Manager, UK Dementia Research Institute

FRANCES EDWARDS

Professor of Neurodegeneration, University College London

JULIA JONES

Scientific Manager, Cancer Research UK, Cambridge Institute

STEFAN KEMPA

Group Leader, Head of Integrative Metabolomics and Proteomics, MDC Berlin

OLIVIER GOVAERE

Assistant Professor, KU Leuven

ALVARO CREVENNA

Head of Microscopy, EMBL Rome

EVA QWARNSTROM

Professor, University of Sheffield

CHARLES MEIN

Centre Manager, Queen Mary University of London

KONSTANTINOS THEOFILATOS

Lecturer in Bioinformatics, Kings College London

JAN-PHILIPP MALLM

Lab Head, DKFZ Heidelberg

INES SEQUEIRA

Group Leader & Associate Professor, Queen Mary University of London

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DAY ONE: 18 MARCH 2024



Oxford Global Welcome Address - A pre-recorded welcome address with logistical information will be played in conference rooms 1 & 2 ahead of the opening presentations

CONFERENCE ROOM 1: SPATIAL MULTI OMICS TECHNIQUES & APPROACHES

CONFERENCE ROOM 2: SPATIAL BIOLOGY IN PHARMA & TRANSLATIONAL DRUG RESEARCH

Track Chair: JAN-PHILIPP MALLM, Lab Head, DKFZ Heidelberg

Track Chair: OLIVIER GOVAERE, Assistant Professor, KU Leuven

Keynote Address: Future Directions In Spatial Technology Development

Currently, spatial single-cell RNA-seq has become prevalent in oncology research. Whole transcriptome and panel-based technologies are on the way to reach a mature stage. However, other omics fields are not as advanced. Among them, protein-based single-cell spatial analysis is likely the most established following spatial single-cell RNA-seq. Genome analysis and metabolomics, on the other hand, are still in their early phases. Nevertheless, achieving a better understanding of tumor biology in the future will necessitate the integrated utilization of various spatial omics approaches

RAFFAELE CALOGERO, Professor of Molecular Biology, **University of Torino**

Keynote Address: Harnessing Unsupervised AI For Biological Insights From Data-Rich Tissue Imaging

- How unsupervised AI methods are rapidly democratizing interpretation of H&E imaging
- Our experience applying unsupervised AI to multiple human disease
- The application of unsupervised AI to multiplex (i.e. mIF and transcriptomic) imaging

JOHN LE QUESNE, Professor in Molecular Pathology, **University of Glasgow**

Spatial Genomics – Will This Be The Future Of Genomics?

- Overview of the different technologies we run
- Changes we have made to create the best infrastructure to achieve our goals in spatial genomics
- The future in spatial genomics in my laboratory as I see it, with the blunt reasoning why we have invested and focused in this area

NIK MATTHEWS, Head of Imperial BRC Genomics Facility, **Imperial College London**

Characterising Cellular Interactions And How To Test Their Significance

- How to characterise cellular interaction in terms of spatial proximity
- How to use spatial monte carlo methods to test for significantly increased or decreased interaction between specific phenotypes within the tumor microenvironment

ANDREAS SPITZMÜLLER, Director, Spatial Data Science, **AstraZeneca**

Suspension And Imaging Mass Cytometry As A Facility Service

- Mass cytometry as a speedy solution for highly multiplexed phenotyping and cell function analysis of your samples
- Complexities of data analysis

MICHALINA MAZURCZYK, Facility Manager, **University of Oxford**

Targeting The Tumour Microenvironment – Assessing The Impact Of Cell-Based Therapies In Solid Tumours Through Multiplex And Spatial Biology

- Plan to discuss how our team have developed assays to detect our engineered T cells as well as detect and phenotype endogenous T cells and other immune cells in the TME
- Demonstrate the use of IHC, multiplex immunofluorescence and RNAscope to understand the TME before and post treatment in clinical samples
- How we have used spatial biology techniques to gain a deeper understanding of the different cell types and their interactions in the TME
- Will provide examples from two of our clinical programmes where we have used these assays on human clinical samples

MARTIN ISABELLE, Associate Director, Tumour Profiling and Mechanistic Biology, Translational Sciences, **Adaptimmune**

MORNING COFFEE & REFRESHMENTS



1-2-1 Meetings x4



Poster Displays

MACSima™: The Complete Toolbox For Spatial Biology

The emergence of spatial biology heralds a paradigm shift in our understanding of biological systems, revealing previously unseen layers of complexity. Here, we will discuss how MACSima is driving advancements in disease therapies and unraveling the complexity of the tumor microenvironment

JAK GRIMES, Fluorescence Imaging Specialist, UK, **Miltenyi Biotec**



Mapping The Future With Spatial Genomics

Join us to learn more about Vizgen's MERSCOPE® Platform for in situ single-cell spatial multiomics that concurrently measures gene and protein expression. With the highest single-molecule sensitivity it brings new insights into the biological systems that govern human health and disease

JAMES HARGREAVES, Regional Account Manager, UK & Nordics, **Vizgen**



Unlocking Patient Samples With Spatial Transcriptomics

NIGEL JAMIESON, Professor of Surgery, **University of Glasgow**

Digital Spatial Profiling The Microenvironment Of Muscle Invasive Bladder Cancer

- Whole transcriptome profiling of MIBC using GeoMx DSP
- Spatial profiling of molecular subtypes and infiltrating immune cells
- Ligand signalling analysis

MICHAEL EYRES, Lead Scientist - Spatial Biomarkers, **Medicines Discovery Catapult**

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CONFERENCE ROOM 1: SPATIAL MULTI OMICS TECHNIQUES & APPROACHES

Canopy CellScape: Differentiated Quantitative Performance For Spatial Multiplexing

Understanding the in situ spatial arrangement of key phenotypic populations is critical in advancing our understanding of biology to inform the development of novel therapeutics and diagnostics. The recent advancement of several tools and platforms that enable high-plex detection of proteins or transcripts on in-tact tissue specimen has given rise to the exciting field of spatial biology. But many novel platforms face challenges with data quality and robust assay performance. The CellScape platform enables high-plex spatial omics with quantitative readouts and streamlined assay design and customization. Here, we present the development and deployment of novel assays to expand the capabilities of the CellScape platform. Leveraging open-source probe chemistry, robust and reliable assays are developed rapidly, leading to practical adoption and analysis of a wide range of targets

11:30 THOMAS CAMPBELL, Director of Product Management, **Canopy Biosciences - A Bruker Company**



Advances Spatial Approaches

11:50 OLIVIER CEXUS, Principal Investigator, **University of Surrey**

CONFERENCE ROOM 2: SPATIAL BIOLOGY IN PHARMA & TRANSLATIONAL DRUG RESEARCH

High-Plex Whole Slide Spatial Biology Assays Powered By The Hyperion XTi

Introducing Hyperion XTi, a revolutionary Imaging Mass Cytometry System. 5x faster detection, unparalleled sensitivity for dim markers, walk-away flow cytometry, and new imaging modes. Ultra-fast whole slide imaging and intelligent ROI selection redefine high-throughput cytometry

ROBERTO SPADA, Marketing Director, **Standard BioTools**



Cellular Resilience To Alzheimer's Disease Pathology

- Pathological and Resilient Alzheimer's disease cell niches in octogenarians and centenarians
- Amyloid-induced inflammation is an early cellular response independent of tau pathology
- We identified 13 amyloid-induced inflammatory molecules cross validated in an amyloid mouse model and two independent human cohorts

WEI-TING CHEN, Head of Discovery Biology, **Muna Therapeutics**

12:10 **LUNCH BREAK & REFRESHMENTS**



1-2-1 Meetings x3



Poster Displays

Track Chair: RAFFAELE CALOGERO, Professor of Molecular Biology, **University of Torino**

Spatial Transcriptomics Case Study

13:10 THEODOROS XENAKIS, Research Fellow, **University College London**

Track Chair: MICHALINA MAZURCZYK, Facility Manager, **University of Oxford**

The Use Of Multiplex Spatial Technologies Within A Histopathology Core Facility

CARA BRODIE, Senior Scientific Associate, **University of Cambridge**

Spatial Phenotyping, From Discovery To Spatial Signatures, At Scale

Learn how you can scale up your spatial discovery efforts and rapidly translate those discoveries into actionable spatial phenotypic signatures. Hear about the latest advances aimed at making spatial biology more accessible and speeding up time from experiment to data to publication

13:30 LADAN GHEIRATMAND, Senior Field Application Scientist, **Akoya**



Molecular Pixelation - Dissecting The Spatial Organization Of 80 Surface Proteins In Single Immune Cells

Here, we present Molecular Pixelation (MPX), an advanced DNA barcode-based method for high-multiplex spatial analysis of proteins in single cells. Combining an NGS-based readout with our dedicated software, Pixelator, MPX enables the reconstruction of 3D cell-surface maps of 80 proteins on over 1000 individual cells, simultaneously. We applied MPX to compare the surface proteome of single resting and in-vitro activated T cells, highlighting differences in protein abundance, as well as revealing dramatic spatial protein re-organization, both in terms of supramolecular clustering and protein-protein co-localization. These results demonstrate that MPX has the potential to pave the way for expanding our understanding of cell surface protein architecture and its role in T cell activation

STEVE GLAVAS, Global Sales, **Pixelgen**



Panel Discussion: Addressing The Future Needs Of Spatial Omics

- Future of spatial biology
- Moving towards the practical implementation of spatial findings
- Where is the industry heading?

14:10 **Moderator:** OLIVIER CEXUS, Principal Investigator, **University of Surrey**

Panellists:
THEODOROS XENAKIS, Research Fellow, **University College London**
NIGEL JAMIESON, Professor of Surgery, **University of Glasgow**
MARTIN ISABELLE, Associate Director, Tumour Profiling and Mechanistic Biology, Translational Sciences, **Adaptimmune**
STEFAN KEMPA, Group Leader, Head of Integrative Metabolomics and Proteomics, **MDC Berlin**

Panel Discussion: Spatial Biology In Pharma Research & Development

- Spatial technologies in clinical development
- Utilisation in therapeutics
- Translational Development
- Spatial transcriptomics in the discovery of therapeutic targets
- Biomarkers Identification

Moderator: TBC

Panellists:
WEI-TING CHEN, Head of Discovery Biology, **Muna Therapeutics**
SEBASTIAN BERGLING, Senior Data Scientist, **Novartis Institute for Biomedical Research**
OLIVIER GOVAERE, Assistant Professor, **KU Leuven**

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14:30

AFTERNOON BREAK



1-2-1 Meetings x3



Poster Displays

15:30

CONFERENCE ROOM 1: SPATIAL MULTI OMICS TECHNIQUES & APPROACHES

Nanostring Workshop: Advancements In Tissue Digital Spatial Profiling And Single Cell Spatial Molecular Imaging Unveil Biological Landscapes Through A Multiomics Lens

Presentation 1: Unleash The Power Of True, Same-Slide Spatial Multiomics To Maximize Your Discovery Power And Get A More Complete Picture Of Biology

RUDY VAN EIJSDEN, **NanoString Technologies**

Presentation 2: A GeoMx® Case Study

SUSAN HEAVEY, Centre for 3D Models of Health and Disease , **UCL**

Presentation 3: A CosMx™ Case Study

CHRISTINA STARKEY, **The Francis Crick Institute**

Presentation 4: Data Analysis 101

RICHARD BUUS, **NanoString Technologies**

Join this session to learn how simultaneously spatially profile thousands of transcripts and hundreds of proteins from the same formalin-fixed, paraffin-embedded (FFPE) tissue section using true, same-slide spatial multiomics. Hear from your peers as they share results obtained using the GeoMx Digital Spatial Profiler and CosMx Spatial Molecular Imager. And see 570+ proteins on one slide with GeoMx® IO Proteome Atlas for FFPE and fresh frozen tissue sections



15:50

CONFERENCE ROOM 2: SPATIAL BIOLOGY IN PHARMA & TRANSLATIONAL DRUG RESEARCH

Workshop: Digital Innovations In Spatial Proteome Analysis

Presentation 1: Spatial Tissue Proteomics To Assess Health and Disease

- Overview of current spatial proteomics technologies
- Mass spectrometry based spatial proteomics approaches and Deep- Visual Proteomics (DVP)

FABIAN COSCIA, Group Leader,
MDC Berlin

Presentation 2: Deep Visual Proteomics: AI – Guided Technology For Proteome Analysis

- Deep Visual Proteomics: A new concept combining high-content imaging, machine-learning guided cell phenotyping and ultrasensitive mass spectrometry
- Biomedical applications for cell type and spatially resolved proteome profiling using DVP
- Single-cell Deep Visual Proteomics that integrates imaging, microdissection, and multiplexed MS to reveal spatial proteomic heterogeneity between individual cells in tissues

ANDREAS MUND, Associate Professor,
University of Copenhagen

Workshop: Digital Innovations In Spatial Proteome Analysis (cont.)

Panel Discussion: Digital Innovations In Spatial Proteome Analysis

- The future of spatial proteomics and emerging multi-omics concepts
- The power of archival tissue proteome profiling to understand human health and disease

Panellists:

FABIAN COSCIA, Group Leader, **MDC Berlin**

ANDREAS MUND, Associate Professor, **University of Copenhagen**

KONSTANTINOS THEOFILATOS, Lecturer in Bioinformatics, **King's College London**

Dissecting Mechanisms Of Metabolic Liver Zonation & Regeneration Using Single Cell Resolved Spatial Transcriptomics

SEBASTIAN BERGLING, Senior Data Scientist,
Novartis Institute for Biomedical Research

Delegates are welcome to attend co-located session

16:50

17:10

End of Day One & Drinks Reception

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DAY TWO: 19 MARCH 2024

CONFERENCE ROOM 1: IMAGE ANALYSIS, AI-POWERED IMAGING & DIGITAL PATHOLOGY FOR SPATIAL BIOLOGY, SPATIAL BIOINFORMATICS, DATA ANALYTICS AND INTERPRETATION

Track Chair: MICHALINA MAZURCZYK, Facility Manager, University of Oxford

Spatial Analysis Methods For Highly Multiplexed Imaging Data With Example Biomarker Applications

- Overview of key approaches for analyzing highly multiplexed data
- Discussion of some of the key challenges in analyzing large scale datasets and how they can be overcome
- Example biomarker applications where these techniques are put into practice

MARTIN FERGIE, Lecturer in Health Data Science, University of Manchester

4D Biology Of The Cancer Microenvironment

- How complementary 3 and 4D imaging can provide context to higher parameter approaches that address smaller volumes of tissue
- Give examples of from work investigating the roles and heterogeneity of myeloid cells in the tumour microenvironment
- Discuss combining techniques for more comprehensive information

LEO CARLIN, Group Leader Leukocyte Dynamics / Head of Beatson Advanced Imaging Resource, University of Glasgow

MORNING ROUNDTABLE DISCUSSIONS - TAKING PLACE IN THE EXHIBITION HALL

Track Chair: MICHAEL EYRES, Lead Scientist - Spatial Biomarkers, Medicines Discovery Catapult

Morning Roundtable Discussions

Roundtable Discussion 1: Combining Different Spatial Multi-Omics Technologies

- Integration of transcriptomics and proteomics
- Single cell spatial omics
- Multi-modal imaging
- Novel application areas

Moderator: JOHN LE QUESNE, Professor in Molecular Pathology, University of Glasgow

Roundtable Discussion 2: Predictive Biomarkers In The Age Of Spatial Biology

- Incorporating spatial biology to increase the number of predictive biomarkers for immune therapies
- Identifying better predictive biomarkers for immunotherapy that will allow patients to benefit from high response rates that are also durable over time
- Utilizing multiplexing for clinical testing, to support late phase clinical trial or patient management

Moderator: MARTIN ISABELLE, Associate Director, Tumour Profiling and Mechanistic Biology, Translational Sciences, Adaptimmune

Roundtable Discussion 3: Running & Optimizing GeoMx Experiments

- Project planning, experimental design and setup
- Is high-throughput achievable AND sustainable?
- Is there a need for best practices for effective quality control?

Moderators:

KASPER THORSEN, Manager, Single-Cell Core Center, Aarhus University

SARA NEWELL, Clinical Specialist, Aarhus University

CONFERENCE ROOM 1: IMAGE ANALYSIS, AI-POWERED IMAGING & DIGITAL PATHOLOGY FOR SPATIAL BIOLOGY, SPATIAL BIOINFORMATICS, DATA ANALYTICS AND INTERPRETATION

Investigating Neural Circuit Degeneration In ALS Using Spatial Transcriptomics

- RNAScope coupled with GeoMX techniques are used to investigate the transcriptomes of spinal circuits in ALS
- Bioinformatic analysis reveals early changes in synaptic connectivity in inhibitory interneurons in the ALS mice

ILARY ALLODI, Group Leader & Assistant Professor, University of St Andrews

High Plex Spatial Transcriptomics And Proteomics In A Discovery And Translational Setting

- Explore the benefits of implementing spatial multiomics at the highest plex in your biomarker discovery and translational research. GeoMx[™] Digital Spatial Profiler (DSP) and CosMx[™] Spatial Molecular Imager (SMI) create the complete spatial biology solution to support your research at every stage
- See how the new CosMx[™] Human 6K Discovery Panel can be integrated into your lab
- See 570+ proteins on one slide with GeoMx[®] IO Proteome Atlas

RUDY VAN EIJSDEN, Associate Director, Product Applications, Nanostring



CONFERENCE ROOM 2: APPLICATIONS OF SPATIAL RESEARCH & TECHNOLOGIES IN BIOLOGY

Hedgehog Signalling In Thymic Differentiation – An In Situ Single Cell Resolution Investigation

The thymus is a vital organ of the immune system, responsible for the maturation and selection of T lymphocytes, which play a critical role in adaptive immunity. The Hedgehog (Hh) signalling pathway has been implicated in thymic differentiation and the maintenance of T-cell progenitors. However, the precise mechanisms by which Hh signalling regulates thymocyte development are not yet fully understood. This question was addressed using the ACD HiPlex assay, a single-cell resolution gene expression profiling technology, to investigate the expression patterns of Hh signalling pathway components in thymic tissue. Twelve transcripts in thymus from wildtype and Gli1 knock-out mice were analysed using Indica Labs Halo software. The results reveal dynamic changes in the expression of Hh pathway genes during thymic differentiation, with significant changes observed between thymic compartments. Overall, these findings provide new insights into the role of Hh signalling pathway in thymic differentiation and highlight the potential of ACD's HiPlex assay for studying complex cellular processes at single-cell resolution

JULIA JONES, Scientific Manager, Cancer Research UK, Cambridge Institute

Delegates are welcome to attend co-located session

MORNING COFFEE & REFRESHMENTS



1-2-1 Meetings x4



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CONFERENCE ROOM 1: IMAGE ANALYSIS, AI-POWERED IMAGING & DIGITAL PATHOLOGY FOR SPATIAL BIOLOGY, SPATIAL BIOINFORMATICS, DATA ANALYTICS AND INTERPRETATION

Illuminating The Tumor Microenvironment With InsituPlex Assays And AI-Enhanced Spatial Image Analysis

- Learn about Ultivue's InSituPlex assays and Spatial Image Analysis and their role in advancing precision cancer therapies
- Discover Ultivue's 12-plex assay and its capability to provide accurate and scalable insights into the biology of the tumor microenvironment
- Explore how AI-supported spatial image analysis offers a stable platform for biomarker identification, transforming multiplex immunofluorescence data into actionable insights

FRIEDRICH PREUSSER, Senior Image Data Scientist, **Ultivue**



CONFERENCE ROOM 2: APPLICATIONS OF SPATIAL RESEARCH & TECHNOLOGIES IN BIOLOGY

Accelerating Spatial Biology With COMET™

- Learn how to generate reproducible spatial data with COMET™, a universal hyperplex solution for high-throughput spatial multiomic
- Explore the cellular microenvironment from assay development to cohort analysis in a few weeks thanks to the COMET™ fully automated solution
- Discover our new fully automated, spatial multiomics workflow that integrates the simultaneous detection of RNA, with RNAscope™ HiPlex, and protein, with sequential immunofluorescence (seqIF™), on the same tissue section at the single-cell level

ERICA GENELETTI, Product Manager, **Lunaphore Technologies, a Bio-Techne company**



A Single-Cell And Spatially-Resolved Atlas Of The Human And Murine Oral Cavity In Healthy And Disease

- Creation of the first multi-modal Oral and Craniofacial Cell Atlas (Human Cell Atlas initiative) to define the cellular and spatial heterogeneity across the different niches of the oral cavity
- Integrated single-cell RNA sequencing and spatial mapping (MERFISH and Phenocycler Fusion) were essential to perform receptor-ligand analysis and predict spatially resolved patterns
- This spatial single-cell compendium of the oral cavity illustrates the unprecedented heterogeneity of the oral tissues in health providing a reference for future studies on disease

INÊS SEQUEIRA, Senior Lecturer / Deputy Research Director, **Queen Mary University of London**

Spatial Analysis Of Barrett's Oesophagus To Understand The Immune Landscape And Predict Cancer Risk

- Barrett's oesophagus is a common premalignant condition that can progress to cancer
- We are largely ignorant to the immune alterations during progression
- We demonstrate progressor associated immune cells, neighbourhoods and gene expression

STUART MCDONALD, Reader in Gastroenterology, **Queen Mary University London**

ariadne.ai SPATIAL - Cloud Based Spatial Omics Analysis

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FABIAN SVARA, Chief Executive Officer, **ariadne.ai**



Unlocking Spatial Biology With Orion™

- Orion™ is a novel spatial biology platform enabling whole-slide immunofluorescence results for up to 20 biomarkers in a single-round tissue staining step using a reagent cocktail in one application. Same-section H&E imaging, correlating molecular biomarkers with tissue morphology. Orion imaging is achieved in less than 2 hours per sample, at a subcellular resolution to reveal cell interactions and organelle number and shape
- Agile assay development - validation in weeks not months - and rapid sample processing - studies in days not weeks makes Orion™ suitable for translational research and the platform of choice for bringing Spatial Biology to clinical decision

MICKAEL MEYRAND, Field Application Scientist, Europe, **RareCyte**



Panel Discussion: Intersection Of Digital Pathology And Spatial Biology

- Incorporating spatial omics into digital pathology
- Applications in digital pathology:
 - » Precision medicine
 - » Diagnostics

Panellists:
 JOHN LE QUESNE, Professor in Molecular Pathology, **University of Glasgow**
 CARA BRODIE, Senior Scientific Associate, **University of Cambridge**
 OLIVIER GOVAERE, Assistant Professor, **KU Leuven**

Delegates are welcome to attend co-located session

Comparison Of Spatial Transcriptomics Technologies Using Cancer Cryosection

- Cross-system analysis
- Assess strengths of imaging based spatial omics platforms for fresh frozen material
- Discuss options for quality control and sensitivity estimation
- Multiomics possibilities and best practices

JAN-PHILIPP MALLM, Lab Head, **DKFZ Heidelberg**

LUNCH BREAK & REFRESHMENTS

1-2-1 Meetings x3

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CONFERENCE ROOM 1: IMAGE ANALYSIS, AI-POWERED IMAGING & DIGITAL PATHOLOGY FOR SPATIAL BIOLOGY, SPATIAL BIOINFORMATICS, DATA ANALYTICS AND INTERPRETATION

Track Chair: MICHALINA MAZURCZYK, Facility Manager, University of Oxford

Delegates are welcome to attend co-located session

Multimodal imaging approaches for spatial biology applications

- Sequential imaging of a single biological tissue using mass spectrometry imaging and ion beam analysis
- All-inclusive overview of the elemental and molecular composition of a biological tissue
- Structural information obtained by employment of imaging techniques
- Challenges regarding sample preparation and modifications caused by preceding measurements were studied

CATIA COSTA, Senior Research Fellow,
University of Surrey

Neighbourhood Analysis In Spatial Transcriptomics

- Identifying receptor ligand interactions between adjacent tissue areas

JAMES BOOT, Bioinformatician,
Queen Mary University London

Data Access And Democratisation In Spatial Biology

- The research community faces unprecedented challenges with the size and potential complexity of data arising from spatial biology technologies
- Research and discovery may benefit from data interoperability, as well as from internationally-standardised nomenclature and resources, such as a repository

SAM JACKSON, Tools and Technology Platforms Manager,
UK Dementia Research Institute

Panel Discussion: Advancements In Spatial Data Analysis

- Best practice strategies
- Technological advancements
- Spatial data for multi-omics
- Statistical and AI/ML methods

Moderator: RAFFAELE CALOGERO, Professor of Molecular Biology, University of Torino

Panellists:
EVA QWARNSTROM, Professor, University of Sheffield

ILARY ALLODI, Group Leader & Assistant Professor, University of St Andrews

JAN-PHILIPP MALLM, Lab Head, DKFZ Heidelberg

CONFERENCE ROOM 2: APPLICATIONS OF SPATIAL RESEARCH & TECHNOLOGIES IN BIOLOGY

Track Chair: FRANCES EDWARDS, Professor of Neurodegeneration,
University College London

Innovative CST Solutions For Immuno-Oncology And Spatial Biology: SignalStar™ Multiplex IHC

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- Spatial Biology has a New Star: SignalStar™ Multiplex IHC

YANNICK NOSSIN, Field Application Scientist,
Cell Signaling Technology



A Multi-Omic Spatial Approach For Metabolic Dysfunction Associated Steatotic Liver Disease

- MASLD is a chronic progressive disease affecting over 30% of the adult global population
- To understand the pathogenesis of this disease, we applied a multi-omics approach including the following techniques
 - Single nucleus RNA sequencing
 - Spatial GeoMx Human Whole Transcriptome Atlas transcriptomics
 - Spatial proteome multiplexing by Multiple iterative labeling by antibody neodeposition
 - Bulk RNA sequencing to establish clinical models
 - Serum biomarker screening using SomaLogic proteomics

OLIVIER GOVAERE, Assistant Professor,
KU Leuven

Strategies To Analyse Spatial Metabolomic Regulation

STEFAN KEMPA, Group Leader, Head of Integrative Metabolomics and Proteomics,
MDC Berlin

Implementation Of Spatial Technologies For Multiple Projects

MINAL PATEL, Spatial Operations Manager,
Sanger Institute

Spatial Landscape Of Placental Dysfunction

- Deconvolution of spatial transcriptomics to identify disease-specific modules
- Spatial transcriptomics to identify spatial domains in disease

YARA SÁNCHEZ CORRALES, Computational Research Fellow,
University College London

3D Spatial Cartography Of The Metabolome Expands The Scope For Precision Medicine In Breast Cancer

Molecular heterogeneity is a common phenomenon within tumours and often impacts prognosis and drug response. In particular, recent studies emphasise the presence of metabolic heterogeneity within tumours that is partly intrinsic or can be imposed by changes in the tumour microenvironment (TME). In this study, we use a multimodal spatial MSI (Mass Spectrometry Imaging) approach comprising DESI and MALDI, complimented with IMC (Imaging Mass Cytometry) protein profiling to stratify breast cancer (BC) into metabolically distinct regions (metabotypes) that are present both within and between tumours. High-throughput genetic characterisation of these metabotypes revealed the presence of clinically relevant genetic signatures that are predictive of responses to targeted therapies. This advanced metabolic profiling workflow has the potential to identify distinct spatial regions within tumours with differential therapeutic vulnerabilities, hence providing an entirely novel approach to overcome the challenge of tumour heterogeneity, expanding the scope for precision medicine in breast cancer

EMINE KAZANC, Higher Scientific Officer,
Institute of Cancer Research

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Spatial Transcriptomics Reveals A Defined Microglial Pathway In Alzheimer’s Mouse Models

- A mouse study characterising the strengths of the Nanostring GeoMx cell-type enriched spatial transcriptomics approach;
- Discussion of the difficulties of collecting/analysing human data
- Comparison of analysis of mouse versus human data

FRANCES EDWARDS, Professor of Neurodegeneration,
University College London

Data Analysis Pipelines For Spatial Bioinformatics

- Structured Illumination Microscopy Improves Spot Detection Performance in Spatial Transcriptomics
- We use super-resolution structured illumination (SIM), to improve the performance of single RNA detection in spatial transcriptomics experiments
- *SIM increases the detection efficiency of spots from 2 to 7 fold compared to widefield and confocal modes
- For highly dense gene expression only SIM allows reliable single spot identification

ALVARO CREVENNA, Head of Microscopy,
EMBL Rome

Size Matters: Getting The Measure Of Nanostring geoMX Data

- The feature size within a tissue section that can be analysed is important in spatial transcriptomic experiments
- We compare our experience with Nanostring’s geoMX platform to the other analysis tools that we operate routinely, Visium and bulk RNAseq

CHARLES MEIN, Centre Manager,
Queen Mary University of London

Integrating Spatial Data With scRNAseq And Applications In Atherosclerosis

- Using proteomics, we identified molecular types of human atherosclerotic lesions and study their associations with histology, imaging, and cardiovascular outcomes
- Carotid endarterectomy samples were procured from 120 patients for discovery and in 200 patients from the Athero-Express Biobank study for validation
- This extensive proteomics analysis identified plaque inflammation and calcification signatures, which were inversely correlated and validated using targeted proteomics. The inflammation signature was characterized by the presence of neutrophil-derived proteins, such as S100A8/9 (calprotectin) and myeloperoxidase, whereas the calcification signature included fetuin-A, osteopontin, and gamma-carboxylated proteins. The proteomics data also revealed sex differences in atherosclerosis, with large-aggregating proteoglycans versican and aggrecan being more abundant in females and exhibiting an inverse correlation with estradiol levels
- The revealed proteomic biosignatures were further analyzed at an RNA level combining spatial and single-cell RNAseq. Results of this analysis attributed the inflammation signature predominantly to neutrophils and macrophages, and the calcification and sex signatures to smooth muscle cells, except for certain plasma proteins that were not expressed but retained in plaques, such as fetuin-A

KONSTANTINOS THEOFILATOS, Lecturer in Bioinformatics,
King’s College London

End of Congress

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