OXFORD GLOBAL

Clinical Genomics-Focused Sessions

Day 1 Track 1 – Clinical Genomics
- Advances in sample preparation
- Overcoming the challenges in collecting clinical information
- Applying genome sequencing to disease prevention
- Whole genome sequencing in cancer
- Metagenomics & infectious diseases
- Epigenetics – DNA methylation

Day 1 Track 2 – Multi Omic Data Integration, Harmonisation & Analytics
- Technologies for profiling samples using different omics platforms
- Large-scale multi omics data analysis
- Case studies from omics: proteomics, genomics, transcriptomics, epigenomics
- Practical applications of these omics – pharma (target discovery & translational medicine, data handling
- Clinical trials – real-world applications of these datasets

Day 2 Track 1 – NGS Applications in the Clinic for Diagnostics Development
- Novel NGS analysis techniques in the clinic
- Using transcriptomics for diagnosis of patients in the clinic (RNAseq)
- Long and short read sequencing in the clinic
- Advances in whole transcriptome analyses for cancer research and rare disease

Day 2 Track 2 – Bioinformatics Tools & Technologies
- Novel methods, approaches, and platforms for genomics data integration
- Tools for analysing high-throughput sequencing data
- Bioinformatic engineering:
  - Automation linking different workflows together
  - Cloud – scaling & parametization
- Bioinformatics and computational analysis tools for NGS data
- Data access & sharing in trusted research environments & biobanks

Spatial Analysis-Focused Sessions

Day 1 Track 3 – Moving Spatial Technologies Into The Clinic
- Utilizing, combining and integrating spatial technologies in omics:
  - Spatial genomics, transcriptomics, proteomics, epigenomics, lipidomics, metabolomics
- Combining single & spatial techniques
- Subcellular profiling technologies
- Platform comparisons and end-user perspectives
- Which technologies will move to the clinic?

Day 2 Track 3 – Applications of Spatial Technologies & Bioinformatics
- Case studies from various therapeutic areas
- Spatial data analysis & integration
- Spatial multi-omics atlases
- Machine learning approaches in spatial bioinformatics

Single Cell Analysis-Focused Sessions

Day 1 Track 4 – Emerging Technologies & Tools In Single Cell Analysis
- Novel technologies for single cell imaging
- Sample management:
  - Ensuring sample quality
  - Optimisation
- Computational tools for single cell analysis
  - Deep learning
  - AI & ML
- Leveraging new technologies
- Updates from single cell multi-omics

Day 2 Track 4 – Single Cell Analysis: Applications
Part One: In The Clinic:
- Genomic markers in clinical diagnostic
- Mapping the human cell atlas
- Flow cytometry for cell sorting

Part Two: In Pharma R&D:
- Single cell analytic tools for drug discovery & development
- Multiple modalities within modelling
- Single cell multi-omics analysis

Benefits to Attending

✓ **Hear from and meet with the key innovators in genomics.** 2022 attendees included: Executive Director, MIT; Vice President, Step Pharma; Professor, University College London

✓ **Discover collaborative solution to clinical genomics & diagnostics development.** Presentations will include collecting clinical information, using long read sequencing in routine clinical practice and whole genome sequencing in cancer

✓ **New to 2023! Discuss the latest innovations in multi omics data integration, harmonisation & analytics.** Take a deep dive into technologies for profiling samples using different omics platforms, large-scale multi omics data analysis and case studies from omics

✓ **New to 2023! Join thought-leaders in single cell & spatial analysis:** from moving spatial technologies to the clinic through to combining spatial & single cell techniques as well as deep learning in single cell analysis and single cell analysis by mass spec imaging

✓ **Participate in thought-provoking panel discussions, roundtables & workshops. Sessions will include:** *'Bottlenecks In Routine Healthcare Within The Clinic'; 'Addressing Data Accessibility In The Light Of GDPR'; 'Sequencing At The Point Of Need'*

2023 Speakers Include:

Julie Berthe, AstraZeneca

Milena Hasan, Institut Pasteur

Vito Mennella, University of Cambridge

Meet Senior Decision Makers

500 senior attendees – onsite and online – from leading research & academic institutions, clinical research institutions, food & nutrition companies as well as major pharmaceutical and biotech companies will attend the event.

Genomics	Single Cell Analysis
Clinical Diagnostics	Spatial Genomics
Next Gen Sequencing	Molecular Bioengineering

Discover New Solutions

Formal and informal meeting opportunities offer delegates the chance to discuss key solutions with leading service providers. Services to be discussed include:

Library Preparation	Spatial Gene Expression
Data Analysis	Single Cell Genomics
AI / ML	Single Cell RNA-Seq

*Co-located with our **Inaugural Synthetic Biology in Drug Discovery & Therapeutics Congress and 5th Annual Digital PCR & Liquid Biopsies Congress***

2023 NGS & Clinical Diagnostics Congress Speakers:

- Adrian Freeman, Senior Director Indication Discovery, Emerging Innovations, Discovery Sciences, R&D, AstraZeneca
- Graham Belfield, Director NGS/Transcriptomics – Translational Genomics, AstraZeneca
- Achim Kless, Senior Director, Pain Genetics & Discovery Neuroscience Research, Eli Lilly and Company Ltd.
- Jens Kringelum, Vice President, Artificial Intelligence & Innovation, Evaxion Biotech
- Steven Sheardown, Head of Molecular Biology and Cell Engineering, Cerevance Ltd
- Becky Saunders, Principal Computational Biologist, e-Therapeutics
- Patrick Descombes, Senior Expert Genomics, Genomics Group Leader, Nestlé Research
- Saleha Patel, Associate Principal Scientist - Emerging Innovations Unit, AstraZeneca
- Kalliopi Tsafou, Senior Data Scientist, Quantitative Biology, Discovery Sciences, R&D, AstraZeneca
- Tootie Bueser, Director of Nursing & Midwifery, King's College Hospital & Guy's and St Thomas' Hospital
- Olaf Rieß, Director and President, German Society of Human Genetics (GfH) & University of Tübingen
- Gary Saunders, Data Director, EATRIS-ERIC
- Michael Barnes, Professor of Bioinformatics & Director of the Centre for Translational Bioinformatics, Queen Mary University of London
- Graham Ball, Director of the Medical Technology Research Centre, Anglia Ruskin University
- Rob Krams, Professor, Chair in Molecular Bioengineering & Scientific Director, CVDHub, Queen Mary University
- Christos Proukakis, Professor of Neurology and Neurogenetics, University College London
- Finn Cilius Nielsen, Clinical Professor, University of Copenhagen
- Rosalba Giugno, Associate Professor, University of Verona
- Aino Palva, Laboratory Coordinator & NGS Service Expert, University of Helsinki
- Alex Clipson, Deputy Team Lead, Cancer Biomarkers Centre, Cancer Research UK Manchester Institute
- Maria Antonietta Cerone, Principal Scientist, Cancer Research UK
- Michael Quail, Principal Scientist, Wellcome Sanger Institute
- Alessandra Vigilante, Senior Lecturer. King's College London
- Sophia Tsoka, Reader in Bioinformatics, King's College London
- Conceição Bettencourt, Senior Research Fellow, UCL

2023 Single Cell & Spatial Analysis Congress Speakers:

- Remco Loos, Scientific Senior Director, Predictive Sciences, Bristol Myers Squibb
- Dries De Maeyer, Principal Scientist & Single Cell Analysis Group Leader, Janssen
- Julie Berthe, Senior Scientist, Translational Medicine, AstraZeneca
- Wallis Nahaboo, Expert Scientist Preclinical - Translational OMICs, GSK
- David Wedge, Professor of Cancer Genomics & Data Science, University of Manchester
- Viji Draviam, Professor of Quantitative Cell and Molecular Biology and Director of Industrial Innovation, Queen Mary University London
- David Simpson, Professor, Queen's University Belfast
- Wei Huang, Professor of Biological Engineering, University of Oxford
- Georgy Koentges, Professor, University of Warwick
- Matthew Humphries, Research Operations Manager, Leeds Teaching Hospitals NHS Trust, National Pathology Imaging Co-operative (NPIC) & St James's University Hospital
- Vito Mennella, Director of Research, University of Cambridge
- Irene Papatheodorou, Gene Expression Team Leader, European Bioinformatics Institute
- Milena Hasan, Head of Immunomonitoring Platform, Institut Pasteur
- Wilfred van Ijcken, Principal Investigator and Head of Genomics Core Facility, Erasmus MC
- Pedro Cutillas, Professor of Cell Signalling & Proteomics, Barts Cancer Institute, Queen Mary University London
- Shirin Elizabeth Khorsandi, Principal Investigator, Senior Lecturer & Clinician, King's College London
- Hywel Williams, Senior Lecturer, Cardiff University
- Lukas Valihrach, Senior Researcher, The Czech Academy of Sciences
- Onelia Gagliano, Assistant Professor, University of Padova
- Edward Emmott, Lecturer, University of Liverpool
- Anna Wilbrey-Clark, Staff Scientist, Wellcome Sanger Institute
- Megan Hamilton, Single Cell & Sequencing Specialist, Babraham Institute
- Mark Fiers, Bioinformatics & Integrative Genomics Specialist, VIB
- Yu-Chun Wang, Life Sciences Technology Implementation Specialist, VIB
- Ruben Esse, Sequencing Scientist, Cell and Gene Therapy Catapult
- Dalia Rosano, Senior Research Associate, Imperial College London
- Michael Haley, Research Associate, University of Manchester
- Nell Nye, Research Associate, University of Cambridge
- Eleanor Platt, Molecular Scientist, Medicines Discovery Catapult

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09:30 - 09:35	Oxford Global's Welcome Address & Chairperson's Introduction				
09:35 – 10:00	**Keynote Address:** **Genomics In 2023** **TBA**				
	Clinical Genomics	**Multi Omic Data Integration, Harmonisation & Analytics**	**Moving Spatial Technologies Into The Clinic**	**Emerging Technologies & Tools In Single Cell Analysis**	**Interactive Pavilion**
10:00 – 10:25	**Track Keynote Address:** **Clinical Implementation Of Genomic Medicine** CONFIRMED: **Finn Cilius Nielsen, Clinical Professor, University of Copenhagen**	**Track Keynote Address:** **Multi-Omics & Drug Discovery** CONFIRMED: **Graham Belfield, Director NGS/Transcriptomics – Translational Genomics, AstraZeneca**	**Track Keynote Address:** **Spatial Gene Expression And Beyond** CONFIRMED: **Milena Hasan, Head of Immunomonitoring Platform, Institut Pasteur**	**Track Keynote Address:** **Advanced Single Cell Analysis Tools** CONFIRMED: **Wei Huang, Professor of Biological Engineering, University of Oxford**	**Panel Discussion:** **Unravelling The Code: Exploring Challenges & Incentives in Synthetic Biology** • Interdisciplinary and sustainable initiatives • Challenging perceptions in the wider community • New approaches and materials *Moderator:* **Patrick Barth, Associate Professor, Swiss Federal Institute of Technology** *Panellists:* **Ruben Vazquez-Uribe, Co-Principal Investigator of the Bacterial Synthetic Biology Section, Novo Nordisk Foundation Center for Biosustainability** **Francesca Ceroni, Senior Lecturer, Imperial College London**
10:25 – 10:55	**Platinum & Above Solution Provider Presentation** **For sponsorship opportunities please contact:** **sponsorship@oxfordglobal.co.uk**	**Platinum & Above Solution Provider Presentation** **For sponsorship opportunities please contact:** **sponsorship@oxfordglobal.co.uk**	**Solution Provider Presentation** nanoString	**Solution Provider Presentation** Parse BIOSCIENCES	**Attendees Are Welcome To Attend Co-Located Sessions**
10:55 - 11:55	Morning Coffee & Refreshments, Poster Presentation Sessions, 1-2-1 Meetings x3				
11:55 – 12:20	**Industry Presentation:** **The Transformation Of Nursing And Midwifery In The Genomics Era** CONFIRMED: **Tootie Bueser, Director of Nursing & Midwifery, King's College Hospital & Guy's and St Thomas' Hospital**	**Industry Presentation:** **AI/ML Toolkit For Interrogation Of Multi Omic Datasets** CONFIRMED: **Graham Ball, Director of the Medical Technology Research Centre, Anglia Ruskin University**	**Industry Presentation:** **Mapping Molecular Data Onto Bulk Profiling For Patient Therapies** CONFIRMED: **Remco Loos, Scientific Senior Director, Predictive Sciences, Bristol Myers Squibb**	**Industry Presentation:** **Benchmarking Single Cell Technologies** CONFIRMED: **Wilfred van Ijcken, Principal Investigator and Head of Genomics Core Facility, Erasmus MC**	**Panel Discussion:** **Bottlenecks In Routine Healthcare Within The Clinic** • Bottlenecks in data analysis • Utilising the datasets in a clinical capacity • Educating MDs on genomic medicine *Moderator:* **Finn Cilius Nielsen, Clinical Professor, University of Copenhagen**

	Clinical Genomics	Multi Omic Data Integration, Harmonisation & Analytics	Moving Spatial Technologies Into The Clinic	Emerging Technologies & Tools In Single Cell Analysis	Interactive Pavilion
12:20 – 12:50	Gold & Platinum Solution Provider Presentation For sponsorship opportunities please contact: sponsorship@oxfordglobal.co.uk	Gold & Platinum Solution Provider Presentation For sponsorship opportunities please contact: sponsorship@oxfordglobal.co.uk	Gold & Platinum Solution Provider Presentation For sponsorship opportunities please contact: sponsorship@oxfordglobal.co.uk	Solution Provider Presentation SCI PIO BIOSCIENCE	Attendees Are Welcome To Attend Co-Located Sessions
12:50 – 13:15	Industry Presentation: The Cancer Research UK Stratified Medicine Programme As A Model For Delivering Personalised Cancer Care CONFIRMED: Maria Antonietta Cerone, Principal Scientist, Cancer Research UK	Industry Presentation: ML-Driven Target Identification & Integration Of Multiple Datasets • Integrating omics, NLP, genetics, pathways, assays • Identifying new drug targets • ML model to design siRNAs CONFIRMED: Becky Saunders, Principal Computational Biologist, e-Therapeutics	Industry Presentation: Spatial Biology: The Next Revolution In Molecular Pathology CONFIRMED: Matthew Humphries, Research Operations Manager, Leeds Teaching Hospitals NHS Trust, National Pathology Imaging Co-operative (NPIC) & St James's University Hospital	Industry Presentation: Gene Expression Analyses At Tissue And Single Cell Level Across Species CONFIRMED: Irene Papatheodorou, Gene Expression Team Leader, European Bioinformatics Institute	Featured Panel Discussion: Celebrating Women In Genomics *Panellists:* Tootie Bueser, Director of Nursing & Midwifery, King's College Hospital & Guy's and St Thomas' Hospital
13:15 – 14:15	Lunch, Poster Presentation Sessions, 1-2-1 Meetings x3				
14:15 – 14:45	Solution Provider Presentation TWIST BIOSCIENCE	Silver & Above Solution Provider Presentation For sponsorship opportunities please contact: sponsorship@oxfordglobal.co.uk	Silver & Above Solution Provider Presentation For sponsorship opportunities please contact: sponsorship@oxfordglobal.co.uk	Solution Provider Presentation Single Cell Discoveries	Attendees Are Welcome To Attend Co-Located Sessions

	Clinical Genomics	Multi Omic Data Integration, Harmonisation & Analytics	Moving Spatial Technologies Into The Clinic	Emerging Technologies & Tools In Single Cell Analysis	Interactive Pavilion
14:45 – 15:10	**Industry Presentation:** **The $100 Human Genome Is Here: Sequencing Using The Ultima UG100** • Discussion of new sequencing technologies • Description of Ultima sequencing platform and capabilities • Experience of sequencing using Ultima for a range of sequencing applications CONFIRMED: **Michael Quail, Principal Scientist, Wellcome Sanger Institute**	**Industry Presentation:** **Mining The CNS Transcriptome For Novel Therapeutic Targets: The Cerevance NETSseq Platform** CONFIRMED: **Steven Sheardown, Head of Molecular Biology & Cell Engineering, Cerevance Ltd**	**Industry Presentation:** **Subcellular Profiling Technologies** CONFIRMED: **Shirin Elizabeth Khorsandi, Principal Investigator, Senior Lecturer & Clinician, King's College London**	**Industry Presentation:** **Proteomics And Computational Approaches To Understanding Cell Signalling Pathways & Cancer Development** CONFIRMED: **Pedro Cutillas, Professor of Cell Signalling & Proteomics, Barts Cancer Institute, Queen Mary University London**	**Panel Discussion:** **Multiplexing Assays – Current Challenges** • Reproducibility & validation of multiplexing assays • Viability of multiple reagents • Staining clinical samples • QC considerations *Panellists:* **Julie Berthe, Senior Scientist, Translational Medicine, AstraZeneca** **Megan Hamilton, Single Cell & Sequencing Specialist, The Babraham Institute**
15:10 – 15:35	**Industry Presentation:** **Holistic Approach To Diagnosing Rare Diseases** CONFIRMED: **Hywel Williams, Senior Lecturer, Cardiff University**	**Industry Presentation:** **Tackling The Translational Challenges Of Multi-Omics Research** CONFIRMED: **Gary Saunders, Data Director, EATRIS-ERIC**	**Industry Presentation:** **Platform Comparisons And End-User Perspectives** CONFIRMED: **Yu-Chun Wang, Life Sciences Technology Implementation Specialist, VIB**	**Industry Presentation:** **Single Cell Analysis Tools** CONFIRMED: **Viji Draviam, Professor of Quantitative Cell and Molecular Biology and Director of Industrial Innovation, Queen Mary University London**	**Panel Discussion:** **Single Cell Analysis In Pharma – Drug Discovery & Development** • Current utilisation of single cell analysis: ○ Target identification ○ Target validation *Panellists:* **Wallis Nahaboo, Expert Scientist Preclinical - Translational OMICs, GSK** **Remco Loos, Scientific Senior Director, Predictive Sciences, Bristol Myers Squibb**
15:35 – 16:05	**Solution Provider Presentation** **Covaris®**	**Silver & Above Solution Provider Presentation** **For sponsorship opportunities please contact:** **sponsorship@oxfordglobal.co.uk**	**Silver & Above Solution Provider Presentation** **For sponsorship opportunities please contact:** **sponsorship@oxfordglobal.co.uk**	**Solution Provider Presentation** **BioSkryb GENOMICS**	**Attendees Are Welcome To Attend Co-Located Sessions**
16:05 – 16:45	**Afternoon Coffee & Refreshments, Poster Presentation Sessions, 1-2-1 Meetings x2**				

	Clinical Genomics	Multi Omic Data Integration, Harmonisation & Analytics	Moving Spatial Technologies Into The Clinic	Emerging Technologies & Tools In Single Cell Analysis	Interactive Pavilion
16:45 – 17:10	**Industry Presentation: Genomic Approaches To Routine Clinical Practice**	**Industry Presentation: Brain DNA Methylation Alterations & Downstream Consequences On Gene Expression** Their role in: o Frontotemporal dementia (FTD) o Other neurodegenerative diseases, including multiple system atrophy (MSA)s	**Industry Presentation: Use Of Spatial Technologies For The Human Cell Atlas**	**Industry Presentation: Dissociating Astrocytes and Neurons To Investigate Age Related Dementias Using Single Cell Analysis**	**Roundtable 1:** **Causality & Causal Networks** • Mapping omics data onto causal networks *Moderator:* **Becky Saunders, Principal Computational Biologist, e-Therapeutics** **Roundtable 2:** **Next-Generation Omics For Drug Discovery And Development** • How can we use omics and data driven-approaches to identify new targets, accelerate lead generation and find novel clinical indications • What are the future enabling technologies that will drive this in the pharmaceutical industry • How can we address the scalability challenge for high-throughput drug discovery *Co-moderators:* **Saleha Patel, Associate Principal Scientist - Emerging Innovations Unit, AstraZeneca** **Kalliopi Tsafou, Senior Data Scientist, Quantitative Biology, Discovery Sciences, R&D, AstraZeneca** **Roundtable 3:** **Tackling Challenges In NGS Workflows** • Quality of samples • Implementation of automation *Moderator:* **Aino Palva, Laboratory Coordinator & NGS Service Expert, University of Helsinki** **Roundtable 4:** **Accelerating Adoption Of Liquid Biopsy In Clinical Trials** • Overcoming challenges in approvals • Benefits of liquid biopsies for clinical trials *Moderator:* **Pamela Pinzani, Associate Professor, University of Florence**
	CONFIRMED: **Rosalba Giugno, Associate Professor, University of Verona**	CONFIRMED: **Conceição Bettencourt, Senior Research Fellow, UCL**	CONFIRMED: **Anna Wilbrey-Clark, Staff Scientist, Wellcome Sanger Institute**	CONFIRMED: **Nell Nye, Research Associate, University of Cambridge**	
17:10	**Young Scientist Presentation Award Ceremony & End of Day One**				
19:00 – 21.00	**Networking Dinner** nanoString	**Networking Dinner** *Private invite-only hosted dinner.* *For Sponsorship Opportunities please contact* *sponsorship@oxfordglobal.co.uk*	**Networking Dinner** *Private invite-only hosted dinner.* *For Sponsorship Opportunities please contact* *sponsorship@oxfordglobal.co.uk*	**Networking Dinner** *Private invite-only hosted dinner.* *For Sponsorship Opportunities please contact* *sponsorship@oxfordglobal.co.uk*	

	NGS Applications In The Clinic For Diagnostics Development	Bioinformatics Tools & Technologies	Applications Of Spatial Technologies & Bioinformatics	Single Cell Analysis: Applications	Interactive Pavilion
09:00 – 09:25	**Track Keynote Address:** **Diagnostics Of Rare Diseases: Beyond The Exome And Towards Common Diseases** • The need for whole transcriptome analyses & long-read sequencing in clinical diagnoses • Implementing genome diagnostics for high risk "actionable genes" • Common diseases applying polygenic risk scores into clinical care CONFIRMED: **Olaf Rieß, Director and President, German Society of Human Genetics (GfH) & University of Tübingen**	**Track Keynote Address:** **Empowering Personalized Immunotherapy: Novel Cancer Antigen Source & Their Implication In The Clinic** • To date missense mutations have been mostly studied as a cancer specific epitope source for personalized cancer immunotherapy • Alternative sources, such as EVEs and hERVs have emerged as an alternative source • As cancer specific, however, non-mutated sources & different approaches are needed for identification of these alternative sources • We have in cancer mouse models shown the effectiveness of alternative sources for treating cancer • We also demonstrate how hERV burden can stratify patient receiving immunotherapy in responders and non-responders CONFIRMED: **Jens Kringelum, Vice President, Artificial Intelligence & Innovation, Evaxion Biotech**	**Track Keynote Address:** **Spatial Biology By Volume Electron Microscopy & Super-Resolution Imaging** CONFIRMED: **Vito Mennella, Director of Research, University of Cambridge**	**Track Keynote Address:** **From Spatial Single Cell Patterns To Cell Migration Dynamics And Cancer: A Developmental Genetics Perspective In The Age Of Crowd-Sourcing** CONFIRMED: **Georgy Koentges, Professor, University of Warwick**	**Young Scientist Presentation 1 – 09:00** **Young Scientist Presentation 2 – 09:15**
09:25 – 09:55	**Solution Provider Presentation** MGI	**Solution Provider Presentation** **For sponsorship opportunities please contact:** **sponsorship@oxfordglobal.co.uk**	**Silver & Above Solution Provider Presentation** **For sponsorship opportunities please contact:** **sponsorship@oxfordglobal.co.uk**	**Silver & Above Solution Provider Presentation** **For sponsorship opportunities please contact:** **sponsorship@oxfordglobal.co.uk**	**Attendees Are Welcome To Attend Co-Located Sessions**

	NGS Applications In The Clinic For Diagnostics Development	Bioinformatics Tools & Technologies	Applications Of Spatial Technologies & Bioinformatics	Single Cell Analysis: Applications	Interactive Pavilion
09:55 – 10:20	**Industry Presentation:** **NGS Workflow For Cancer Research** CONFIRMED: **Alex Clipson, Deputy Team Lead, Cancer Biomarkers Centre, Cancer Research UK Manchester Institute**	**Industry Presentation:** **Data Driven And Omics-Based Approaches For Identifying Novel Clinical Indications** CONFIRMED: **Adrian Freeman, Senior Director Indication Discovery, Emerging Innovations, Discovery Sciences, R&D, AstraZeneca**	**Industry Presentation:** **Spatiotemporal Transcriptomic Map Of Ischemic Brain Injury** • Spatial and single-cell transcriptomics in acute phase of experimental stroke • Spatiotemporal organization of cellular and molecular processes in post-ischemic brain • Characterization of activation states in three major glial populations CONFIRMED: **Lukas Valihrach, Senior Researcher, The Czech Academy of Sciences**	**Industry Presentation:** **Developing Scalable And Best-Practice Single Cell Analysis Pipelines In A Pharmaceutical Context** CONFIRMED: **Dries De Maeyer, Principal Scientist & Single Cell Analysis Group Leader, Janssen**	**Panel Discussion:** **How Will Single Cell & Spatial Technologies Fit Into The Clinic?** • More than a research tool? • Integrating bioinformatic strategies in the clinic *Panellists:* **Saleha Patel, Associate Principal Scientist - Emerging Innovations Unit, AstraZeneca** **Michael Haley, Research Associate, University of Manchester** **Anna Wilbrey-Clark, Staff Scientist, Wellcome Sanger Institute**
10:20 – 11:20	**Morning Coffee & Refreshments, Poster Presentation Sessions, 1-2-1 Meetings x3**				
11:20 – 11:50	Solution Provider Presentation **Novogene** Advancing Genomics, Improving Life	Solution Provider Presentation **sptlabtech**	**Bronze & Above Solution Provider Presentation** **For sponsorship opportunities please contact:** **sponsorship@oxfordglobal.co.uk**	**Bronze & Above Solution Provider Presentation** **For sponsorship opportunities please contact:** **sponsorship@oxfordglobal.co.uk**	**Attendees Are Welcome To Attend Co-Located Sessions**
11:50 – 12:15	**Industry Presentation:** **Protective Rare Variants Discovery In Neuroscience** CONFIRMED: **Achim Kless, Senior Director, Pain Genetics & Discovery Neuroscience Research,** **Eli Lilly and Company Ltd.**	**Industry Presentation:** **Genome And Disease Data Mining** CONFIRMED: **Sophia Tsoka, Reader in Bioinformatics, King's College London**	**Industry Presentation:** **Multiplexed Spatial Phenotyping & Multi-Omics Analysis** • Multi-modal approach • Understanding prognostic value of tertiary lymphoid structures in non-small cell lung cancer CONFIRMED: **Julie Berthe, Senior Scientist, Translational Medicine, AstraZeneca**	**Industry Presentation:** **Cellular Reprogramming & Single Cell Analysis To Dissect Population Dynamics** CONFIRMED: **Onelia Gagliano, Assistant Professor, University of Padova**	**Young Scientist Presentation 1 – 11:50** **Young Scientist Presentation 2 – 12:00**

	NGS Applications In The Clinic For Diagnostics Development	Bioinformatics Tools & Technologies	Applications Of Spatial Technologies & Bioinformatics	Single Cell Analysis: Applications	Interactive Pavilion
12:15 – 12:45	Solution Provider Presentation	Solution Provider Presentation **INOREVIA**	Bronze & Above Solution Provider Presentation For sponsorship opportunities please contact: sponsorship@oxfordglobal.co.uk	Solution Provider Presentation	Attendees Are Welcome To Attend Co-Located Sessions
12:45 - 13:55	Lunch, Poster Presentation Sessions, 1-2-1 Meetings x3				
13:55 – 14:20	Industry Presentation: Long Read Technologies & Applications CONFIRMED: Patrick Descombes, Senior Expert Genomics, Genomics Group Leader, Nestlé Research	Industry Presentation: Defining Transcriptomic Endotypes Of Biologic Response In Immune Mediated Inflammatory Diseases CONFIRMED: Michael Barnes, Professor of Bioinformatics & Director of the Centre for Translational Bioinformatics, Queen Mary University of London	Industry Presentation: Mass Cytometry For Brain TME CONFIRMED: Michael Haley, Research Associate, University of Manchester	Industry Presentation: Immuno-informatics For GSK Vaccine • Epigenetic data CONFIRMED: Wallis Nahaboo, Expert Scientist Preclinical - Translational OMICs, GSK	Young Scientist Presentation 1 – 13:55 Young Scientist Presentation 2 – 14:10
14:20 – 14:50	Solution Provider Presentation **WATCHMAKER GENOMICS**	Solution Provider Presentation **bionano**	Bronze & Above Solution Provider Presentation For sponsorship opportunities please contact: sponsorship@oxfordglobal.co.uk	Solution Provider Presentation **lightcast**	Attendees Are Welcome To Attend Co-Located Sessions
14:50 – 15:20	Solution Provider Presentation **TaKaRa**	Solution Provider Presentation **DNAnexus**	Bronze & Above Solution Provider Presentation For sponsorship opportunities please contact: sponsorship@oxfordglobal.co.uk	Bronze & Above Solution Provider Presentation For sponsorship opportunities please contact: sponsorship@oxfordglobal.co.uk	Attendees Are Welcome To Attend Co-Located Sessions

	NGS Applications In The Clinic For Diagnostics Development	Bioinformatics Tools & Technologies	Applications Of Spatial Technologies & Bioinformatics	Single Cell Analysis: Applications	Interactive Pavilion
15:20 – 15:45	**Industry Presentation:** **Translating NGS Methods From Research To The Clinic – The Story Of The Finnish Exome** CONFIRMED: **Aino Palva, Laboratory Coordinator & NGS Service Expert, University of Helsinki**	**Industry Presentation:** **AI For Molecular Techniques & CRISPR High Throughput Validation** CONFIRMED: **Rob Krams, Professor, Chair in Molecular Bioengineering & Scientific Director, CVDHub, Queen Mary University**	**Industry Presentation:** **Spatial Applications For Alzheimer's Disease** CONFIRMED: **Eleanor Platt, Molecular Scientist, Medicines Discovery Catapult**	**Industry Presentation:** **Single Cell Applications** CONFIRMED: **Ruben Esse, Sequencing Scientist, Cell and Gene Therapy Catapult**	**Panel Discussion:** **Engineering a Cure: How Synthetic Biology is Changing the Future Of Drug Development** • Advancements in drug discovery • Novel drug delivery systems • Next generation and future technologies *Panellists:* **Martin Hanczyc, Associate Professor, University of Trento**
15:45 – 16:10	**Industry Presentation:** **Whole Genome Sequencing Of Single Human Brain Cells Using Short And Long Reads** CONFIRMED: **Christos Proukakis, Professor of Neurology and Neurogenetics, University College London**	**Industry Presentation:** **NGS Dataset Translation** CONFIRMED: **Alessandra Vigilante, Senior Lecturer. King's College London**	**Industry Presentation:** **Spatial Data Analysis** CONFIRMED: **Mark Fiers, Bioinformatics & Integrative Genomics Specialist, VIB**	**Industry Presentation:** **Leveraging Single Cell Analysis & Long-Read Sequencing To Understand Retinal Disease** CONFIRMED: **David Simpson, Professor, Queen's University Belfast**	**Panel Discussion:** **Successfully Implementing Digital PCR In Immunotherapy Trials** • Technical considerations • Platform applications *Panellists:* **Pieter van der Velden, Principal Investigator, Leiden University Medical Center** **Nelleke Gruis, Associate Professor, Leiden University Medical Center** **Birgit Deiman, Molecular Biologist, Catharina Hospital** **Senior Representative, Bio-Rad**

	NGS Applications In The Clinic For Diagnostics Development	Bioinformatics Tools & Technologies	Applications Of Spatial Technologies & Bioinformatics	Single Cell Analysis: Applications	Interactive Pavilion
16:10 – 16:35	**Industry Presentation: Dissecting Adaptive Processes In Breast Cancer Using Single Cell Technologies** CONFIRMED: **Dalia Rosano, Senior Research Associate, Imperial College London**	**Industry Presentation: Data Access & Sharing In Trusted Research Environments**	**Industry Presentation: Spatial Data Visualisation** CONFIRMED: **David Wedge, Professor of Cancer Genomics & Data Science, University of Manchester**	**Industry Presentation: Single-Cell Multiomics Analysis For Drug Discovery** CONFIRMED: **Edward Emmott, Lecturer, University of Liverpool**	**Roundtable 1:** **Single Cell Datasets** • Open source data • Data sharing considerations • Standardisation of datasets • Pipeline tools *Moderator:* **Dries De Maeyer, Principal Scientist & Single Cell Analysis Group Leader, Janssen** **Roundtable 2:** **Bringing Various Omics Together** • Integration of data from various omics • Ensuring data quality & suitability • Addressing false discovery in the multi omics space *Moderator:* **Graham Ball, Director of the Medical Technology Research Centre, Anglia Ruskin University** **Roundtable 3:** **Exploring Applications Of dPCR Technologies** *Moderator:* **Giandomenico Turchiano, Senior Research Associate, University College London**
16:35	**End of Congress**				