

# Integrating Clinical Omics in Precision Management of Breast Cancer – Virtual Meeting

Thursday 21<sup>st</sup> & Friday 22<sup>nd</sup> October 2021

## Overview:

We are pleased to announce this virtual meeting, bringing world-renowned speakers to share with us the current and future challenges and opportunities of “omics techniques” in development of innovative biomarkers and the barriers for delivery of clinical diagnostics assays, management of breast cancer in the era of omics and the implication of risk factors to development of breast cancer.

On the 2<sup>nd</sup> day, a mini course is included in the programme. You will learn the use of analytical methodologies and sequencing technologies to investigate genomic variation, and in estimating levels of gene expression profiling. You will also develop an understanding of study designs and their practicality for setting up analyses in biomarker discovery and development.

## Description:

The virtual meeting focuses on providing a source of practical insights for the pathologists, oncologists, trialists and translational scientists who are working to translate discovery/findings across the broad range of “omics” technologies to deliver molecular and precision medicine for patients. The genomic techniques include targeted approaches, RNA-sequencing, whole exome and whole genome sequencing.

## Organiser:

Dr Maggie Cheang  
Team Leader, ICR-CTSU Integrative Genomics Analysis in Clinical Trials  
Institute of Cancer Research

## Cost:

£60 per day  
£40 per day for BRC/ICR/RMH staff

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[www.royalmarsden.nhs.uk/studydays](http://www.royalmarsden.nhs.uk/studydays)

## Get in touch:

For further information on the course  
please contact the Course Coordinator:  
Dr Maggie Cheang  
[Maggie.Cheang@icr.ac.uk](mailto:Maggie.Cheang@icr.ac.uk)

To contact the Conference Team please email  
[Conferenceteam@rmh.nhs.uk](mailto:Conferenceteam@rmh.nhs.uk)  
Or call 020 7808 2921

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## Day 1 Programme Thursday 21<sup>st</sup> October 2021

- 13:00** **Welcome and Introductions**
- 13:05** **“Omics in Breast Cancer: How Far We’ve Come, How Far We Need to Go”**  
**Professor Lisa Carey**  
Professor in Breast Cancer Research, Deputy Director of Clinical Sciences  
Lineberger Comprehensive Cancer Centre, USA
- 14:05** **Break/Sponsor Exhibition**
- 14:30** **Development of genomics assays to predict response and survival following neoadjuvant chemotherapy and endocrine therapy**  
**Professor William Fraser Symmans**  
Director of Research Operations, Department of Pathology  
The University of Texas MD Anderson Cancer Centre, USA
- 15:00** **Q&A with Prof Symmans**  
Moderator: Dr Sheeba Irshad
- 15:30** **Diversity and Inclusion in Precision Medicine Research**  
Moderator: Professor Fraser Symmans  
Panellists:  
Dr Jane Bayani (Canada)  
Dr Maggie Cheang (UK)  
Dr Katherine Hoadley (US)  
Dr Sheeba Irshad (UK)  
Dr Anguraj Sadanandam (UK)  
Dr Janice Tsang (Hong Kong)
- 16:00** **Clinical implication of Intrinsic subtypes in ER+HER2- tumour**  
**Professor Aleix Prat**  
Head of the Medical Oncology Department, Hospital Clínic Barcelona, Spain  
Head of the Translational Genomics and Targeted Therapeutics in Solid Tumours Group, August Pi i Sunyer Biomedical Research Institute (IDIBAPS)
- 16:30** **Q&A with Prof Prat**  
Moderator: Dr Maggie Cheang
- 17:00** **Summary and Close**



## Day 2 Programme Friday 22<sup>nd</sup> October 2021

- 13:00 Overview in various RNA-sequencing technologies – kits, library preparation methods, chemistry and platforms**  
**Dr Gene Schuster**  
Senior Bioinformatician, Endocrinology and Endocrine Therapy Resist Teams,  
The Institute of Cancer Research, London, UK
- 13:20 Development and validation of gene expression signature for predicting patient outcome**  
**Dr Maggie Cheang**  
Team Leader, ICR-CTSU Integrative Genomics Analysis in Clinical Trials  
Institute of Cancer Research, London, UK
- 13:40 Break/Sponsor Exhibition**
- 14:10 Overview in whole exome and genome sequencing, including library preparation methods, sequencing chemistries and platforms**  
**Dr Syed Haider**  
Breast Cancer Research Bioinformatics Group Leader, Breast Cancer Now  
Research Centre, The Institute of Cancer Research, London, UK
- 14:30 Detection of circulation tumour cells and ctDNA in liquid biopsy**  
**Dr Isaac Garcia-Murillas**  
Staff Scientist, Breast Cancer Now Research Centre  
The Institute of Cancer Research, London, UK
- 14:50 RNA-Sequencing is not just about gene-expression**  
**Dr Katherine Hoadley**  
Assistant Professor, Department of Genetics  
Lineberger Comprehensive Cancer Centre, USA
- 15:15 Q&A with Dr Hoadley**  
Moderator: Dr Gene Schuster
- 15:40 Break/Sponsor Exhibition**
- 16:00 Genetic alterations influence the development of breast cancer**  
**Professor Fergus Couch**  
Consultant, Division of Experimental Pathology and Laboratory Medicine,  
Consultant, Division of Epidemiology, Department of Quantitative Health  
Sciences  
Mayo Clinic Cancer Centre and the Centre for Individualized Medicine, USA
- 16.35 Q&A with Prof Couch**  
Moderator: Professor Andrew Tutt
- 17:10 Closing remarks**

