



## Functional Cancer Genomics and Precision Oncology

An **online** workshop hosted by Prof Adrian Bracken (Trinity College Dublin)  
and Prof Walter Kolch (University College Dublin)

Thursday, 26 May 2022  
10am – 2pm

Online Event



The **All-Island Cancer Research Institute** online event will explore:

- The current landscape in Functional Cancer Genomics in Ireland
- How can we harness the power of these Functional Genomics efforts to launch genomics-based cancer clinical trials on the island of Ireland

Free registration on Eventbrite

Search 'functional cancer genomics'

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## Agenda

### 10.00-10:25 Welcome and Introduction to AICRI and Workshop

Prof Adrian Bracken (TCD) (Chair)  
Dr Colm Henry, Chief Clinical Officer (HSE)  
Prof William Gallagher (UCD, AICRI Co-Lead)

Dr Robert O'Connor (Irish Cancer Society): A Charity Perspective  
Dr Alan Pearson (Patient Representative)

### 10:25-11:45 Theme 1: Functional Cancer Genomics

**Chairs:** Prof Adrian Bracken (TCD) and Dr Colm Ryan (UCD)

#### Speakers:

**Prof Adrian Bracken (TCD):** Harnessing custom CRISPR libraries to identify functional dependencies in the coding and non-coding genomes of cancer

**Dr Colm Ryan (UCD):** Computational approaches to understand and target mutations in cancer

**Dr Gerard Brien (TCD):** Harnessing Functional Genomics to Develop targeted therapies for Paediatric cancers

**Dr Rory Johnson (UCD):** Genomics-driven RNA therapeutics in oncology

**Dr Eric Conway (TCD):** Single-Cell Epigenomics to Develop New Strategies to treat Heterogenous Cancers

**Dr Triona Ní Chonghaile (RCSI):** Targeted therapeutics and PROTACS for cell death initiation

**Prof Darran O'Connor (RCSI):** Targeting transcription in breast cancer

**Dr Simon McDade (QUB):** Functional genomics to improve efficacy of standard of care

**Prof Aedin Culhane (UL):** Developing data science and bioinformatics platforms that empower clinical cancer research and patient care

**Dr Yaser Atlasi (QUB):** Elucidating the role of regulatory elements in cancer

**Prof Corrado Santocanale (NUIG):** Blocking DNA synthesis before it begins: insights into CDC7 kinase targeting drugs using functional genomics approaches

**Dr James Brown (UL):** Essential genes as cancer targets

## Q&A

11:45- 13:00

## Theme 2: Precision Oncology

**Chairs:** Prof Walter Kolch (UCD) and Prof Maeve Lowery (TSJCI)

### Speakers:

**Prof Walter Kolch (UCD):** Digital Twins for Precision Oncology

**Prof Maeve Lowery (TSJCI):** Adaptive clinical trial designs to facilitate precision oncology

**Prof Roisin Connolly (UCC):** Neoadjuvant Clinical Trials & Precision Oncology

**Prof Jonathan Bond (UCD):** Precision Medicine for Childhood Cancer

**Prof Karen Cadoo (TSJCI):** Building a national inherited cancer genetics research infrastructure

**Dr Nina Orfali (TSJCI):** Acute Myeloid Leukaemia - The More We Know, The More Complicated it Gets!

**Dr Grainne O'Kane (SJH):** A comprehensive molecular profiling programme to dictate subtypes and biomarkers

**Dr Nick Orr (QUB):** Using functional genomics to illuminate mechanisms of genetic susceptibility to cancer

**Prof Leonie Young (RCSI):** Longitudinal genomic profiling as a tool to uncover new actionable targets in breast cancer brain metastasis

**Dr Jarushka Naidoo (RCSI/Beaumont):** Investigator initiated clinical trials in oncogene addicted subsets of cancer

**Dr Nicola Miller (NUIG):** Translating miRNA signatures, real world experience

## Q&A

13:00-13:20

LUNCH

13:20-14:00

**Next Steps and Opportunities for Collaboration**

*Chairs:* Prof Adrian Bracken (TCD) and Prof Walter Kolch (UCD)

## General Open Discussion

13:50-14:00

**Summary/wrap up and Close**

## Registration

Register for this free event here:

<https://www.eventbrite.ie/e/functional-cancer-genomics-and-precision-oncology-workshop-online-event-tickets-334480790047>