

4th Irish Next-Generation Sequencing Meeting

Date: Friday 13th June

Venue: Tercentenary Hall and Knowledge Exchange, Level 2 of Trinity Biomedical Sciences Institute (TBSI), Pearse Street, TCD, Dublin 2.



9.45 **Registration (free) + tea/coffee.** To register please email trinseq@gmail.com

10.15 **Elaine Kenny** (TrinSeq and EldaBioTech) What is Next-Generation Sequencing; an introduction and refresher to what's available.



10.45 **Paul Cormican** (Teagasc Grange) A whistle stop tour of Bioinformatics in NGS!

11.15 **Emma Greatorex** (Newmarket Scientific) Optimizing Library Preparation Efficiency and Reducing Bias - Important Factors in Next-Gen Sequencing



11.30 **Tim Downing** (NUIG) High-throughput genome sequencing deciphers population admixture and epidemiology in a monomorphic parasite

11.50 **Paul Cotter** (Teagasc Fermoy) Sequencing at the Teagasc NGS Facility

12.10 **Adam Pelton** (NEB) Addressing Challenges in Microbiome DNA Analysis – A Method for Selective Enrichment of Microbial DNA from Contaminating Vertebrate Host DNA



12.25-13.45pm Lunch (provided)

13.45 **Micheál MacAogáin** (TCD) Molecular epidemiology of bacterial infection - embracing the genomic era

14.00 **Marcus Claesson** (UCC) (Meta)transcriptomics of colonic lesions In Inflammatory Bowel Disease

14.25 **Darren Marjenberg** (Agilent) SureSelect QXT: More from Less



14.40 **Adrian Bracken** (TCD) Regulatory Mutations in Familial Breast Cancer

15.05 **Simon Furney** (Cancer Research UK Manchester Institute/UCD) Whole genome sequencing of melanoma patient samples

15.30 **Iain MacLaren-Lee** (Illumina) Illumina portfolio 2014: From whole genome sequencing on the bench to population sequencing on X Ten.



15.40 Tea/Coffee

Keynote- Translating research NGS to clinical applications

16.15 **Yvonne Wallis** (Principal Clinical Scientist | Head of Familial Cancer Services, West Midlands Regional Genetics Laboratory, Birmingham Women's NHS Foundation Trust)

Clinical applications of NGS: exons to exomes

17.15 **Elaine Kenny** (TrinSeq and EldaBioTech) Closing remarks.

