01-06-17

7th Annual Irish NEXT GENERATION SEQUENCING Meeting

#NGSIrl17
@TrinSeqNGS

Trinity Biomedical Sciences Institute, Pearse St., Dublin 2.

Fannin Scientific · illumina® · MSC · SOPHIA GENETICS® · LABPLAN · Accuscience+ A Pharmed Group Company · QIAGEN

09:30 Registration
-Tea and coffee provided

10:00 Primer to technologies and applications for NGS and more
-Elaine Kenny

10:30 Rubbish in, rubbish out; bioinformatic basics for NGS
-Denise Harold

11:00 New technologies for DNA-Seq and RNA-Seq from single cells and other challenging samples
-Irit Paz

11:15 Ultra-deep next generation mitochondrial genome sequencing reveals widespread heteroplasmy in Chinese hamster ovary cells
-Paul Kelly

11:35 NGS grade DNA and RNA extraction using Covaris AFA
-Rowan Gibson

11:50 An integrative approach to understanding sponge biology & evolution
-Grace McCormack

12:05 Application of WGS analysis of Cronobacter species - a strategy to evaluate risk to neonatal health
-Lynda Gunn

12:25 Lunch (Provided) **12:25**

13:10 Large Size Shear Analysis with the FEMTO Pulse™
-Pierre Varineau

13:25 Next generation sequencing-derived insights into the microbiology of the fermented dairy beverage kefir
-Aaron Walsh

13:45 Simplifying NGS sample preparation
-Ewan Grant

14:00 Evaluating the potential of nanopore sequencing for use in environmental metagenomic studies
-Kate Reddington

14:20 First steps towards developing use of rapid nanopore sequencing on the ONT MinION for same day pen-side detection of lung pathogens in cattle
-Matt McCabe

14:40 Connecting Hospitals, pooling data and sharing knowledge - The Sophia Genetics experience
-Gerald Martin

14:55 Elixir Project Introduction
-Audrey Michelle

15:00 Tea and Coffee Break **15:00**

15:20 The role of hereditary polymorphisms in response to targeted therapies in the adjuvant treatment of HER2-positive breast cancer.
-Alex Eustace

15:40 Unlocking the Potential of Next Generation Sequencing for Clinical Applications
-Kevin McGrath

15:55 Nth-generation sequencing and the complex architecture of ALS.
-Russell McLoughlin

16:15 Converting genomic snapshot data into dynamic simulations of network behaviour to improve cancer diagnosis and therapy
-Dirk Fey

16:35 Striking a balance between clinical diagnostics and research assays on NGS
-Cathal O'Brien

16:55 Closing Remarks
-Elaine Kenny

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