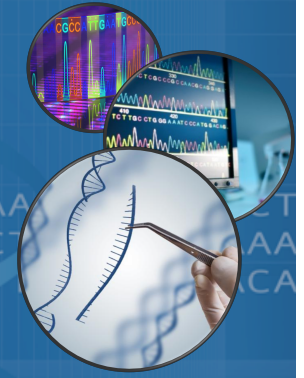30.05.19

#NGSIrl19

@TrinSeqNGS

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9TH ANNUAL IRISH
NEXT GENERATION SEQUENCING
MEETING

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

Trinity Translational Medicine Institute
Trinity Centre for Health Sciences

9:30 Registration
With Tea and Coffee

10:00 What's 'NEXT' on the Horizon? Current NGS Technologies and Platforms
- Elaine Kenny (ELDAbiotech & TrinSeq)

10:20 Bioinformatics basics for NGS- How to spot the good, the bad and the ugly
- Denise Harold (DCU)

10:40 Most recent advents in single cell NGS tounravel biological complexity and disease
-Samuel Bouvet (Takarabio)

10:55 Molecular dissection of cell populations in culture and *in vivo* with scRNA-Seq
-David Simpson (QUB)

11:15 How to make your NGS data analysis simple
- Simit Patel (Partek Inc)

11:30 Bioinformatic approaches to rapidly screen >188,000 Salmonella WGS datasets during Irish dairy contamination event
- Dan Hurley (UCD)

11:50 Funding innovation in genomics and personalised health- A VC's Perspective
- Yanxiang Zhou (Illumina Ventures)

illumina VENTURES

12:00 LUNCH

13:00 The origin, evolution and population structure of 4,071 *Escherichia coli* ST131 genomes
-Arun Decano (DCU)

13:20 10X Genomics, Multi-Omic Applications
- Stephen Hague (10X Genomics)

13:35 Amplicon Sequencing - The Positives Of Being A Control Freak
-Paul Smith (Teagasc)

13:55 Next Generation Sequencing with Agilent
-Alex Stretton (Agilent)

14:10 Characterisation of novel Arginine Catabolic Mobile Elements (ACMEs) in subgingival Staphylococcus epidermidis elucidated by short read and long-read whole genome sequencing
- Brenda McManus (TCD)

14:30 3in3: Lightning Talks on Hot NGS Topics *including:*

TRANSPOSON INSERTION SEQUENCING (TRADIS) OF SALMONELLA TENNESSEE IN HUMAN MACROPHAGES
GENESIS: THE GENOMIC LANDSCAPE OF NEONATAL ESCHERICHIA COLI SEPSIS IN IRELAND
RNA-SEQ and RETT SYNDROME
IDENTICAL BUT NOT THE SAME-WGS OF TWINS

14:50 TEA + COFFEE

15:20 Transcriptomic characterisation of 3D organoid models tostudypancreatic cancer development and progression
-Naomi Walsh (DCU)

15:40 What's new in NGS from ThermoFisher Scientific: Collibri Stranded RNA Library Prep Kit for Illumina
- Gyongyi Lukacs (Biosciences)

15:55 Clinical benefits of sequencing rare cancer cases
-Bruce Moran (UCD/SVUH)

16:15 QIAseq FastSelect: Novel Method for rRNA and Globin Removal
-Brennan Martin (Qiagen)

16:30 NGS in Paediatric Neurology - Impact on patient care
- Kathleen Gorman (CUH)

16:50 Closing Remarks
-Elaine Kenny

TrinSeq

Thursday 30th May 2019 in Trinity Biomedical Sciences Institute, Pearse Street, Dublin 2