

UK NGS Meeting 2012 August 28th to August 30th

Tuesday 28th August

12:00-15:00 Registration in Business School South, JUBILEE CAMPUS, UNIVERSITY OF NOTTINGHAM, (Poster set up)

15.00-15.10 OPENING REMARKS AND INTRODUCTION (Aziz Aboobaker)

15:10-15:55	Iñaki Ruiz-Trillo (45 mins) (B52) Institute de Biologia Evolutiva (UPF-CSIC) Barcelona Title: " UNICORN genomes and the origin of Metazoa: unicells take the lead ".	
16:00-19:00	Parallel Session 1 (B52) Metagenomics (Chair: Nick Loman)	Parallel Session 2 (A25) AgriFood Genomic (Chair: Mick Watson - c/o Mark Blaxter)
16:00-16:35	Mick Watson (35 mins) ARK-Genomics, Edinburgh Title: " Deep metagenomic sequencing of multiple ruminant guts reveals species-specific microbiomes "	Almas Gheyas (35 mins) The Roslin Institute, Edinburgh Title: " Next Generation Sequencing of multiple chicken lines reveals a rich source of Single nucleotide polymorphisms for high resolution genetic studies "
16:35-17:10	Simon Creer (35 mins) University of Bangor Title: " Understanding microbial macroecology: contemporary biodiversity assessments of free-living microbial eukaryotes. "	John Hammond (35 mins) Institute of Animal Health, Compton, Newbury Title: " Characterisation of a cattle natural killer cell receptor complex using NGS "
17:10-17:45	Chris Quince (35 mins) School of Engineering, University of Glasgow Title: TBA	Martin Trick (35 mins) John Innes Centre, Norwich Title: " Transcriptome sequencing for fine-mapping of genes and for trait association studies in crops "
17:45-18.15	Refreshment Break	Refreshment Break

18:15-18:35	Berwyn Lloyd (20 min) Beckman Coulter Title: "Automating NGS Sample prep - present and future"	Dan Brekken (20 min) Roche Title: TBA
18:35-18:55	Jane Charlesworth (20 mins) Ark Genomics, Roslin Institue Title: "Comparative Analysis of a MeDip-Seq Dataset"	Harry Noyes (20 mins) Centre for Genomic Research, University of Liverpool, Title: "Direct discovery of bovine haplotypes by sequencing from single chromosomes" .
18:55-19:15	John Davey (20 min) University of Edinburgh Title: "Special features of RAD Sequencing data: implications for genotyping"	Hannes Arnold (20 mins) Caliper – a PerkinElmer Company Title: "Automation solutions for library preparation for small bench top and high end NGS systems"

19:15 DRINKS WITH NIBBLES poster session, then entertainment and dinner under your own steam.

Wednesday 29th August

07:30 to 9:00 Breakfast in The Atrium

Registration and poster set-up in Business School

9.15-12:30	Parallel Session 3 (B52) Pathogens (Chair: Neil Hall)	Parallel Session 4 (A25) Human Genomics and Clinical Application (Chair: Anthony Rogers)
9.15-9.50	Matt Berriman (35 mins) The Wellcome Trust Sanger Institute, Cambridge Title: TBA	Jane Greatorex (35 mins) Senior Postdoctoral Scientist HPA - Public Heath Laboratory, Cambridge Title: "HIV diagnostics with Ion Torrent PGM" .
9.50-10:25	Jennifer Gardy (35 min), British Columbia Centre for Disease Control Title: "The field guide to pathogens: using next generation sequencing to improve public health microbiology" .	Sreeram Ramagopalan ("Ram") (35 mins) Blizard Institute, Barts and The London School of Medicine and Dentistry Title: "Genomics and epigenomics of multiple sclerosis" .

10:25-10:45	Emily Richardson (20 min) ARK Genomics, Roslin Institute Title: "Bacterial Annotation: With great automation there must also come great responsibility" .	Michelle Simon (20 min) Medical Research Council, Mammalian Genetics Unit Title: "Using Next Generation Sequencing to study mouse models of human disease."
10:45-11:15	Refreshment break	
11:15-11:50	Nicholas Tucker (35 mins) University of Strathclyde Title: "Sequencing P. aeruginosa: What makes a strain and how do they adapt to life in the lung?"	Lyn Chitty (35 mins) Professor of Genetics and Fetal Medicine, UCL Institute of Child Health Title: "Non-invasive prenatal diagnosis using cell free fetal DNA" .
11:50-12:25	Ed Feil (35 min) University of Bath Title: "The transmission and microevolution of MRSA as revealed by next-generation sequencing"	Edwin Cuppen (35 mins) Hubercht Institute Title: "Structural variation detection with SOLiD LMP sequencing and clinical applications for IonTorrent" .
12:25-14:20	Lunch and Poster session	
14:20-18:25	Parallel Session 5 (B52) Pathogens (Chair: Neil Hall) and Evolutionary Genomics (Chair: Mark Blaxter)	Parallel Session 6 (A25) Technology (Chair: David Buck) and Bioinformatics (Chair: Mario Caccamo)
14:20-14:55	W. Florian Fricke (35 mins) University of Maryland Title: "CloVR-supported comparative genome analysis: Mechanisms of Salmonella enterica evolution" .	David Buck (35 mins) Head of High Throughput Genomics, Wellcome Trust Centre for Human Genetics, Oxford Title: "Technology With The Power to Change Our Lives: A Brief History of DNA Sequencing"
14:55-15:30	Nick Loman (35 mins) University of Birmingham Title: "Clinical metagenomics: benchtop sequencing of bacteria by the bedside" .	Neil Ward (35 mins) European Sequencing Specialist, Illumina Title: TBA
15:30-15:50	Muhammad M Hossain (20 mins) School of Veterinary Medicine and Science, Uni of Nottingham Title: "De novo assembly and comparative analysis of Streptococcus uberis genomes"	Chris Cole (20 mins) College of Life Sciences, University of Dundee Title: "Single-Molecule Transcriptomics of Atopic Eczema in Human Skin" .

15:50-16:20	Refreshment break	
16:20-16:55	Davide Pisani (35 mins) NUI Maynooth Title: "Metazoan phylogenomics"	Andrew Slatter (35 mins) Senior Scientific Officer, Population Genetics, Cambridge Title: "A novel method to sequence bar-coded long-range PCR products in a pooled population of hundreds of DNA samples"
16:55-17:15	David Sims (20 mins) DPAG, University of Oxford Title: "Epigenetic conservation at gene regulatory elements revealed by non--methylated DNA profiling in seven vertebrates"	Christelle Robert (20 mins) ARK Genomics, Roslin Institue, Edinburgh Title: "A multi-mapping read assignment strategy for RNA-Seq and its application to mammalian transcriptomes."
17:15-17:20	Short break to allow people from A25 to join session	
17:20-17:55	Aris Katzourakis (35 mins) University of Oxford Title: "Inferring viral macroevolution from animal next generation sequence data".	Barlett G Ailey (35 mins) CANCELLED
17:55-18:30	Mike Quail (35 mins) (B52) Sequencing R&D Team Leader, The Wellcome Trust Sanger Institute, Cambridge Title: "Sequencing at Sanger in the year 2012!"	

18.45 Travel to Nottingham Contemporary for conference buffet dinner

23.00 Coaches back to Jubilee Campus

Thursday 30th August

07:30 to 09:00 Breakfast in The Atrium. Check out of rooms. Bags can be brought to Business school.

09:30-11:00	Session 7: Company Talks (B52) (Chair: Nick Loman)	
9:30-10:00	Fiona Stewart (30 mins) New England Biolabs Title: "Optimisation of NGS library preparation - low inputs, streamlined workflows and balanced high-fidelity PCR amplification" .	
10:00-10:30	Raimo Tanzi (30 mins) LifeTech Title: "Higher density and higher plexity in Next Generation Sequencing" .	
10:30-11:00	Scott Brouillette (30 mins) Partek Title: "Getting more from you data: leveraging novel statistical tools to increase your analytical power."	
11:00-11:20	Refreshment Break	
11:20-15:25	Parallel session 8: (B52) Evolutionary Genomics (Chair: Mark Blaxter)	Parallel session 9: (A25) Bioinformatics (Chair: Mario Caccamo)
11:20-11:55	Kanchon Dasmahapatra (35 mins) University of York Title: "Adaptive introgression in butterflies" .	Simon Andrews (35 mins) Babraham Institute Title: "Measuring Epigenetic Reprogramming with bisulphite sequencing"
11:55-12:30	Georgios Koutsovoulos (35 mins) University of Edinburgh Title: "Phylogenomics of Nematoda" .	Javier Herrero (35 mins) European Bioinformatics Institute Title: "Inference of ancestral alleles"
12:30-12:50	Hiroshi Suga (20 mins) Instituto de Biologia Evolutiva (UPF-CSIC), Barcelona Title: "Genomic survey of pre-metazoans shows deep conservation of cytoplasmic tyrosine kinases and multiple radiations of receptor tyrosine kinases" .	Sergey Lamzin (20 minutes) The Genome Analysis Centre, Norwich Research Park Title: "Stark: a multi k-mer graph approach for short-read assemblies"

12:50-13:10	Meeting to discuss next year's meeting (All those willing to host welcome!)	
13:10-13:50	Rapid Lunch	Rapid Lunch
13:50-14:25	Conrad Nieduszynski (35 mins) School of Biology, University of Nottingham Title: "Evolution of origins of replication".	Zamin Iqbal (35 mins) Wellcome Trust Centre for Human Genetics, Oxford Title: "High-throughput population genomics using de novo variant assembly: examples from pathogen and human genomics"
14:25-14:45	Martin Seifert and Christian Zinser (20 min) Genomatix Title: "A gene regulatory network in rod photoreceptors controlled by the transcription factors NRL and CRX"	Hang Xu (20 mins) Royal Derby Hospital, University of Nottingham Title: "Development of a software for the identification of LINE1 Chimeric Transcripts in cancer"
14:45-15:05	Julia Loecherbach (20 mins) ARK Genomics, Roslin Institute Title: "Tick RNA-Seq analysis with open source and commercial software"	Matthew Stocks (20 mins) School of Computing Science, University of East Anglia Title: "The UEA small RNA Workbench, a suite of tools for analysing deep sequencing data".