WELLCOME GENOME CAMPUS

CONNECTING SCIENCE

ADVANCED COURSES+ SCIENTIFIC CONFERENCES

Genomic Practice for Genetic Counsellors

Wellcome Genome Campus
Hinxton, Cambridge, UK

28 - 30 January 2019

Programme

Monday 28 January

11:00 - 11:45	**Registration with coffee**
11:45 - 12:00	Welcome and introduction *Anna Middleton* *Head of Society and Ethics Research Connecting Science, Cambridge, UK*
12:00 – 13:30	**Session 1: Refresher Session on Molecular Genetics** *Chair: Anna Middleton*
	12:00 - 12:45 Molecular genetics: DNA, genes, proteins *Andrew Read* *University of Manchester, UK*
	12:45 - 13:30 Types of mutation and their impact *Andrew Read* *University of Manchester, UK*
13:30 - 14:30	**Lunch**
14:30 – 16:00	**Session 1 continued**
	14:30 - 15:15 Genome interpretation: terminology you need to know *Julia Foreman* *Wellcome Sanger Institute*
	15:15 - 16:00 An overview of sequencing technologies *Steve Scott* *Public Engagement, Wellcome Genome Campus, UK*
16:00 – 17:00	Campus Tour (optional)
17:00 – 17:15	**Afternoon tea**
17:15 – 18:15	Consolidating learning for the day Open Q+A, discussion *Chair: Anna Middleton* *Led by*: *Andrew Read*
19:00	**Dinner**

Tuesday 29 January

09:00-10.30 **Session 2: Sequencing and bioinformatics: what does the genetic counsellor need to know?**
Chair: Anna Middleton

09:00 Variant interpretation: going from millions to one of interest that could be the answer
Helen Firth
Cambridge University Hospitals, UK

09:45 Introduction to a genome browser
Gemma Chandratillake
University of Cambridge, UK

10:15 – 10:30 **Group Photo**

10:30 – 11:00 **Coffee**

11:00 - 12.30 **Session 3: The role of genomics in healthcare**
Chair: Anna Middleton

11:00 Genomics in England
Simon Ramsden
Consultant Clinical Scientist, Manchester, UK

11.45 Genomics Internationally
Gemma Chandratillake
University of Cambridge, UK

12:30 – 13:30 **Lunch**

13:30 – 15:00 **Session 4: Workshop on variant interpretation: Decipher**
Chair: Anna Middleton
Using real case studies to explore pathogenicity
Led by: Julia Foreman and Decipher team
Small group discussion, bring own laptops (not iPads)

15:00 – 15:30 **Afternoon Tea**

15:30 - 17:00 **Workshop on cancer variants**
Heather Pierce, Addenbrookes Hospital, UK

18:30 - 19:00 **Pre-dinner drinks**

19:00 **Dinner**

Wednesday 30 January

07:30 - 09.00	**Breakfast**
09:00 - 10:00	**Session 5: Testing in the real world** *Chair: Chris Patch* 09:00 Variant classification *Simon Ramsden* *St Mary's Hospital Manchester, UK* 09 :30 Genomic Counselling within the MDT and explanation of workshop *Georgie Hall and Simon Ramsden* *Manchester, UK*
10:10 - 10:40	**Morning Coffee**
10:40 - 12:30	**Session 6: Workshop on variant interpretation: eye disorders as an example** Using real case studies to explore pathogenicity *Led by: Georgie Hall / Simon Ramsden / Other from Manchester* Small group discussion, bring own laptops (not iPads)
12:30 - 13:30	**Lunch**
13:30 - 14:00	**Genetic Counselling within large sequencing programmes** *Chris Patch* *Genomics England, UK*
14:00 - 15:00	**Next steps: applying what you have learned on this course** **Panel discussion Q&A session** *Led by Anna Middleton* *Connecting Science, Cambridge, UK* *(A question box will be available during the course ready for this session)*
15:00	**Course wrap-up, closing comments and end of workshop** *Faculty*
15:45	**Coach depart to Cambridge City Centre (Downing Street) via Train Station**