

Complex Disease Genetics for Clinicians

26-27 January 2012



This exciting new workshop will provide clinicians with an introduction to the field of complex disease genetics and its progress in recent years, including the success of genome-wide association studies, new biological insights and the transformative potential of next-generation sequencing technology. The programme will combine lecture material from experts at the Wellcome Trust Genome Campus, practical sessions, and invited speakers from off-campus.

The recent advances of genetics and genomics are already affecting fields ranging from clinical genetics to cancer pathology, and will rapidly move across nearly all aspects of health care. The material presented here will help prepare clinicians for that coming change.

Target audience & prerequisites

The workshop is aimed at actively practicing clinicians (either general practitioners or hospital specialists) with an interest in the genetics of complex diseases, personal genomics or translation of genomics into clinical practice. Research-active clinicians are welcome, but this is not a requirement. Familiarity with basic genetic concepts (DNA, chromosomes, inheritance, etc) is expected, but core principles will be reviewed.

Deadlines

Application deadline: 7 November 2011

Full details at:

www.wellcome.ac.uk/conferences

Scientific Conferences are part of the Wellcome Trust Advanced Courses and Scientific Conferences Programme and are held at the Wellcome Trust Genome Campus, Hinxton, Cambridge – home to the world-famous Wellcome Trust Sanger Institute.

For full details, please visit,
www.wellcome.ac.uk/hinxton

Organisers

Jeff Barrett Wellcome Trust Sanger Institute, UK

Charlie Lees University of Edinburgh, UK

Speakers

Mark McCarthy University of Oxford, UK

Mark Daly Harvard Medical School, USA

Daniel MacArthur Wellcome Trust Sanger Institute, UK

Helen Firth University of Cambridge, UK

Andrew Hattersley Peninsula College of Medicine & Dentistry, UK

Ultan McDermott Wellcome Trust Sanger Institute, UK

Topics

- Introduction to genetics & basic concepts
- Methods for studying complex disease genetics: linkage, Genome-wide Association Studies (GWAS)
- Missing heritability and next-generation sequencing
- Direct to consumer testing
- Emerging challenges in clinical genetics
- Biological insights (pharmacogenetics, cancer, metabolic disease, immune disease)
- Practical sessions (how to read GWAS papers, how to interpret a patient's genome)

CPD Accreditation

CPD accreditation will be sought from the Royal College of Physicians in the first instance. Following selection, successful applicants will have the opportunity to request additional accreditations.

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