Workshop:

GWAS mega-analysis
for complex diseases

" A stage for shaping the next generation of genome-wide association studies (GWAS). "
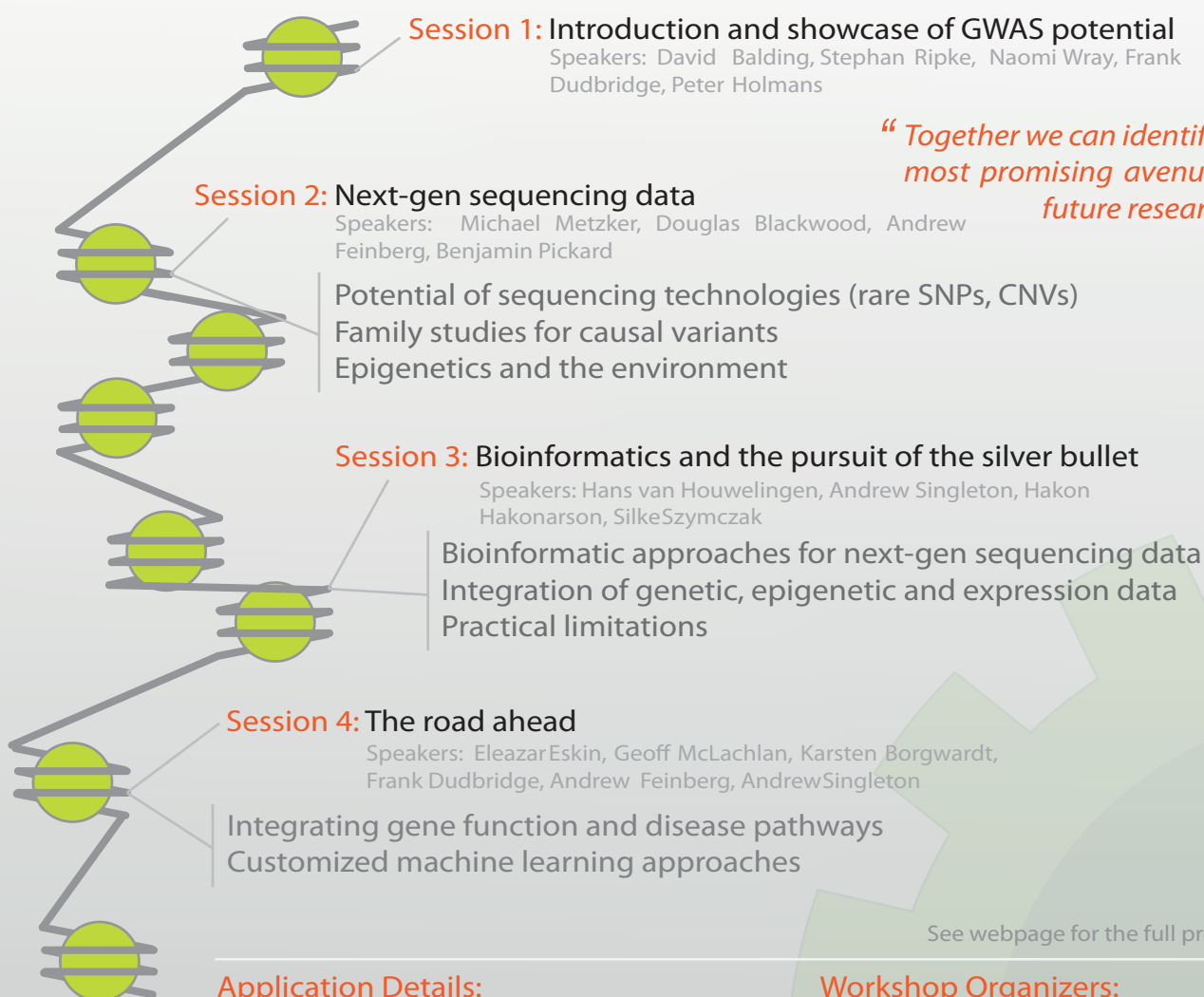
Part of the International Conference on Systems Biology (ICSB2010)

The workshop is aimed at statistical geneticists looking for improved tools for GWAS as well as researchers in machine learning and statistics with an interest in complex diseases, such as schizophrenia.

15. October 2010
Edinburgh, Scotland, UK

http://www.icsb2010.org.uk/workshops/

Program Highlights

Session 1: Introduction and showcase of GWAS potential
Speakers: David Balding, Stephan Ripke, Naomi Wray, Frank Dudbridge, Peter Holmans

" Together we can identify the most promising avenues of future research. "

Session 2: Next-gen sequencing data
Speakers: Michael Metzker, Douglas Blackwood, Andrew Feinberg, Benjamin Pickard

Potential of sequencing technologies (rare SNPs, CNVs)
Family studies for causal variants
Epigenetics and the environment

Session 3: Bioinformatics and the pursuit of the silver bullet
Speakers: Hans van Houwelingen, Andrew Singleton, Hakon Hakonarson, Silke Szymczak

Bioinformatic approaches for next-gen sequencing data
Integration of genetic, epigenetic and expression data
Practical limitations

Session 4: The road ahead
Speakers: Eleazar Eskin, Geoff McLachlan, Karsten Borgwardt, Frank Dudbridge, Andrew Feinberg, Andrew Singleton

Integrating gene function and disease pathways
Customized machine learning approaches

See webpage for the full program

Application Details:
Full day workshop on the 15.10.2010
Registration via webpage

Workshop Organizers:
Professor Bryan J. Mowry and
Dr. Denis C. Bauer, Dr. Jake Gratten
The University of Queensland, Australia.