This week-long hands-on course is a collaborative teaching effort between the web-based fungal data mining resources: FungiDB/VEuPathDB, EnsemblFungi, SGD/CGD, MycoCosm/JGI.

Daily activities will include individual and group training exercises, supplementary lectures on bioinformatics techniques and tools used by various databases, and presentations by distinguished guest speakers.

PROGRAMME:

- Comparative genomics, gene trees, whole-genome alignment
- Identification of orthologs and orthology-based inference
- Genome browsers and gene pages
- RNA-Seq analysis and visualization in VEuPathDB Galaxy
- Variant calling analysis and Ensembl Variant Effect Predictor (VEP) tool
- Development of advanced biologically relevant queries using FungiDB ‘search strategies’ and mining integrated datasets
- Genetic interactions, virulence genes, secondary metabolites
- Overview of ontology structure, evidence, available tools, slimming and enrichment
- Introduction to annotation and curation of fungal genomes

INSTRUCTORS:

- David Roos University of Pennsylvania, USA
- Nishadi De Silva EMBL-EBI, UK
- Omar Harb University of Pennsylvania, USA
- Evelina Basenko University of Liverpool, UK
- Marek Skrzypek Stanford University, USA
- Michal Szpak EMBL-EBI, UK
- Kathryn Crouch University of Glasgow, UK
- Stephen Mondo University of California, USA

GUEST SPEAKERS:

- Lynne Boddy Cardiff University, UK
- Jo Dicks Quadram Institute, UK
- Johanna Rhodes Imperial College London, UK

The course fee is subsidised for non-commercial applicants and limited bursaries are available. Please see the course website for full details.

APPLICATION & BURSARY DEADLINE
27 February 2020

Full details at: bit.ly/FPG20_P