

Pathway Tools Tutorial Schedule

Oct 9 - 11, 2017 (Conference Room B – Main Lobby)

Oct 9

Pathway/Genome Navigator

09:00-09:45AM Lecture: Introduction to Pathway Tools (PDK + PM)
09:45-10:45AM Lecture: Overview of Pathway/Genome Navigator (PDK + PM)
10:45-11:00AM PGDB Prep: HPY download via Registry (PDK + PM)
11:00-11:15AM Break
11:15AM-12:15PM Lab: Navigator (PM + AK)
12:15-01:15PM Lunch
01:15-01:45PM Lecture: SmartTables and Enrichment/Depletion Analysis (RB + SP)
01:45-02:15PM Lab: SmartTables and Enrichment/Depletion Analysis (RB + SP)
02:15-02:45PM Lecture + Lab: Genome Browser (MK + AK) + Blast setup reminder
02:45-03:30PM Lecture + Lab: Comparative Analysis (MK+ AK/PM)
03:30-03:45PM Break
03:45-04:05PM Lecture: RouteSearch (WO)
04:05-05:20PM Lecture + Lab: Omics Viewers: Cellular, Regulatory and Genome (SP + PM)
05:20-05:30 PM Wrap-up and Evaluation (PM)

Oct 10

PathoLogic

09:00-10:00AM Lecture: Pathway prediction using PathoLogic (SP + AK)
10:00-10:30AM Lecture: Matching enzyme names to reactions (SP + AK)
10:30-10:45AM Break
10:45-11:30AM Lecture + Lab: Protein complexes and Operon predictor (SP + IK)
11:30-12:30PM Lunch
12:30-02:00PM Lab: Building a PGDB using PathoLogic (ML + AK)
02:00-03:00PM Lecture + Lab: Pathway Hole Filler (MK + AK)
03:00-03:15PM Break
03:15-03:45PM Pathway Collage / Dashboard (SP)
03:45-05:15PM Introduction to Flux-Balance Analysis in Pathway Tools (ML + WO)
05:15-05:30PM Wrap up and Evaluation (PM)

Oct 11

PGDB Editing

09:00-10:30AM Lecture + Lab: Introduction to Pathway/Genome Editors (RC + AK)
Creating reactions and pathways (exercise 1).
10:30-10:45AM Break
10:45-11:45AM Lecture + Lab: Curating genes and enzymes (exercise 2) (RC + IK).
11:45-12:45PM Lunch (RC)
12:45-01:15PM Lecture: PGDB “Overhaul” (RC + AK)
01:15-01:45PM Lecture + Lab: Importing GO Terms (IK + AK)
01:45-02:00PM Introducing the Multiomics Explainer (SP)
02:00-02:30PM Lecture: Creating a Community PGDB (PDK)
02:30-02:45PM Break
02:45-05:15PM **Open Lab**
05:15-05:30PM New Features / Future Directions, Wrap-up and Evaluation (PDK + PM)

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