

PROTEOMICS INFORMATICS COURSE

Delivered by the Institute for Systems Biology (Seattle, USA) & the Australian Proteomics Computational Facility (Melbourne, Australia)

14-17th September 2010



A HUPO2010 Satellite Workshop hosted by the NSW Systems Biology Initiative (UNSW)

The Seattle Proteome Center (SPC) at the Institute for Systems Biology and the Australian Proteomics Computational Facility (APCF) is pleased to offer a four-day intensive course in proteomic informatics.

The workshop will focus on the use of our open-source software tools for the analysis, validation, storage and interpretation of data from large-scale quantitative proteomics experiments and methods (CORRA), multi-dimensional chromatography and tandem mass spectrometry. Through daily lectures and tutorials, course participants should become proficient in the use of these tools, including the Trans-Proteomic Pipeline (TPP).

There will also be instruction on using SPC resources such as PeptideAtlas, MRMAAtlas, and related tools for design of targeted proteomics workflows via selected reaction monitoring (SRM) such as TIQAM, ATAS and other software packages. Tutorials will also be given on accessing the APCF to utilize many of these software platforms in Australia.

Presenters include: Alexey Nesvizhskii (U. Michigan); Eric Deutsch (ISB); Henry Lam (U. Hong Kong); Mi-Youn Brusniak (ISB); Simon Michnowicz (APCF); and Luis Mendoza (ISB).

Eligibility: Current graduate-student or postdoctoral status. Some prior knowledge of biology is required as is an understanding of the operation of tandem mass spectrometers, the basic structure and interpretation of peptide MS/MS spectra and proficiency in the use of computers. People with extensive experience in computational sciences but not in biology are especially urged to apply as are those with extensive biological but little computational expertise. A commitment to attend the entire course is also required.

Cost: The cost for student registrants is \$165 (inc. GST), academic registrants is \$275 (inc. GST) and commercial employees can register for \$550 (inc. GST).

Registration: For more information and to register, please visit:

<http://www.hupo2010.com/course.htm>

Only 45 places are available, please register early to avoid disappointment.

Venue: The course will be delivered in a dedicated computer lab at the UNSW. Lunch and morning tea provided. UNSW is in the Eastern Suburbs of Sydney about 20 minutes from Sydney CBD. It is next to the beautiful Coogee Beach. Limited accommodation is available on-campus but there is an extensive choice of affordable accommodation including seaside apartments available nearby.

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Course Overview

Tuesday 14th September

- Introduction and sequence database searching
- TPP user interface introduction, data formats & conversion utilities
- TPP installation and support & clinic

Wednesday 15th September

- Post-search validation with PeptideProphet & Pep3D
- Improving search result discrimination with InterProphet
- Protein inference and scoring with ProteinProphet

Thursday 16th September

- Quantification with XPRESS, ASAPRatio, Libra
- Spectral Library searching with SpectraST
- MS1 data analysis with Corra

Friday 17th September

- The PeptideAtlas and MRMAAtlas public resources
- Targeted proteomics with TIQAM and ATAQS
- Australian Proteomics Computational Facility

Instructors in order of appearance:

- Luis Mendoza (ISB)
- Alexey Nesvizhskii (U. Michigan)
- Henry Lam (U. Hong Kong)
- Eric Deutsch (ISB)
- Mi-Youn Brusniak (ISB)
- Simon Michnowicz (APCF)

Please note that the course program is subject to change.

PROTEOMICS INFORMATICS COURSE REGISTRATION FORM

Please complete this form in BLOCK LETTERS and forward to Simone Li via:

Email: simone.li@unsw.edu.au

Fax: +61-2-9385-1483

REGISTRANT DETAILS

Title _____ First Name _____ Surname _____

Organisation _____ Head of Lab _____

Address _____

Phone _____ Email _____

Are you a: Student Post-Doc Research/Academic Staff Other _____

Are you attending the HUPO2010 World Congress? Yes No

REGISTRATION FEE

- Student Rate A \$150 + \$15 GST
- Academic Rate A \$250 + \$25 GST
- Commercial Rate A \$500 + \$50 GST

Cancellations: Refunds (less \$50 processing charge) can be given if we are advised in writing, 2 weeks before commencement of the course.

Please note that the course program is subject to change.

PAYMENT DETAILS

UNSW Account Org ID _____ Dept ID _____

Fund code _____ Project code _____

Credit Card

Card Type Mastercard Visa Other _____

Card Number _____ CSC _____

Name on Card _____

Expiry Date _____ / _____ Signature _____



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Australian Proteomics Computational Facility & New South Wales Systems Biology Initiative