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From: Huynh, Chuong (NIH/NLM/NCBI) [C]

Sent: Tuesday, January 09, 2007 12:02 AM

To: 'health-vn@cairo.anu.edu.au'

Subject: FW: Announcement: Friday, Jan 12, 2007: 8am-4pm - FieldGuide (Overview) to GenBank and NCBI Molecular Biology Resources - Univ of Medicine Pharmacy HCM City

For HCM City area

Announcement:

NCBI Training: A FieldGuide to GenBank and NCBI Molecular Biology Resources

<http://www.ncbi.nlm.nih.gov/Education/>

Course summary:

The National Center for Biotechnology Information (NCBI) presents A Field Guide to GenBank and NCBI Molecular Biology Resources, a lecture and hands-on computer workshop on GenBank and related databases covering effective use of the Entrez databases and search service, the BLAST similarity search engine, genome data and related resources. In addition, the essential of the PubChem resource (for small chemicals and their biological activities), curated conserved domains, and viewing genome data using mapviewer will also be covered.

Course Objectives:

After attending the course, participants should be able to do the following:

- utilize the GenBank and RefSeq sequence database
- database search using Entrez with neighboring, limits, preview, and links
- use essential structural resources such as viewing structures and structural alignments with Cn3D, and accessing the Molecular Modeling Databases
- essential of using the curated conserved domains resources for initial functional assignment
- basic interpretation of similarity searching using NCBI BLAST
- utilize the genomic resources at NCBI (especially, mapviewer)
- understand the content and organization of PubChem database and finding links from a given compound to related data including bioactivity and diseases.
- Use the precomputed links to aid in answering biological questions.

Intended Audience:

The course is intended for principal investigators, postdoctoral fellows, graduate students, advanced undergraduates, and other scientific staff in the life sciences who work biological sequence data or chemical substances in the life sciences. Participants do not need to have taken any other NCBI course to attend, and no prior experience with

chemical databases is required. A good comprehension of molecular biology concept is useful, but not required. Familiarity with basic computer operation and common Web browsers is assumed. Both experienced and novice users of the NCBI tools and resources will benefit.

Course Format:

The course consists of a 4-hour morning lecture (including a 30-minute question/answer session) followed by a 3-hour instructor led computer workshop in the afternoon. During the afternoon session, students will gain hands-on experience with the resources at the NCBI site and will learn how to apply these resources in their specific research area. The course provides practical information about GenBank, RefSeq and the integrated genome resources, as well as the other databases maintained at the NCBI. It also provides instruction on effective use of Entrez, BLAST, and PubChem.

Course Language:

English (questions can be answered or asked in Vietnamese, if preferred)

Instructor:

Chuong Huynh, National Center for Biotechnology Information, U.S. National Library of Medicine, USA. Chuong Huynh is a bioinformatics training specialist with the NCBI User Services staff.

<http://www.ncbi.nlm.nih.gov/>

Session:

Friday, January 12, 2007: HCM City:

Lecture: 8am-12noon -- Library Conference Room (3rd floor) and

Practical: 1pm-4pm in Skills Lab (1st Floor) - // only one practical session, but more practical sessions can be opened if necessary.

at University of Medicine and Pharmacy at Ho Chi Minh City (Trường Đại Học y Dược TP Hồ Chí Minh) - 217 Hồng Bàng, Quận 5, TP Hồ Chí Minh, Việt Nam.

Registration:

There are no pre-online registrations. There are no registration fees. The lecture room in the library can accommodate 130 people. The skills lab can accommodate about 70 people. Please come early for a seat, we will try to begin promptly at 8am. Printed materials will be provided during the workshop in the afternoon section. Course materials will also be made available online for download.

Best Regards,

chuong

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