

A one-day Introductory Short Course

Practical Advice for New Barcoders:

Lab and Data Management Protocols for DNA Barcoding

Academic Sinica, Taipei, Taiwan

Monday, 17 September 2007

The Consortium for the Barcode of Life (CBOL) will sponsor a one-day pre-conference course on barcoding protocols for participants in the Second International Barcode of Life Conference. The course will be held on the campus of Academia Sinica. Bus service will be provided for participants who are staying at the downtown conference hotels. There will be no charge for attending the course and lunch will be provided.

*Those wishing to attend the course
must indicate their intent to participate when they register for the conference.*

The course is being prepared and presented by CBOL's DNA and Database Working Groups, and by a network of "Leading Labs". The Leading Lab network will serve as a resource for other labs, to help them develop and improve their abilities to generate barcode data.

The course will be designed for small and mid-sized barcoding labs, and advice for those establishing new barcoding facilities. The emphasis will be on giving practical advice to labs that are new to barcoding. Discussions will cover lab protocols and data management. Relatively little time will be spent on sequencing equipment and procedures because they are being used in relatively few labs.

The course will cover recommended barcoding protocols, including:

- Specimen handling and data capture in the field;
- Tissue sampling and preservation;
- DNA extraction and archiving;
- Long-term bio-banking;
- Primer selection and development;
- PCR amplification; and
- Equipment selection for smaller barcoding facilities.

Presentations and discussions of data management will include:

- The Barcode of Life Data Systems (BOLD) at the University of Guelph;
- BARCODE data in GenBank;
- Managing data in the field and in the lab;
- Data quality control;
- Documenting collecting and transfer permits; and
- Data curation.

Session 5 in the International Conference (Wednesday, 19 September) will be devoted to statistical analysis of barcode data so these protocols are not included in the short course.

Questions concerning the Short Course should be directed to Katie Ferrell (ferrellk@si.edu), Project Manager, Consortium for the Barcode of Life.