

**BOLD Short Course**  
**Third International Barcode of Life Conference**  
**Seminar Unit, Instituto Biologia,**  
**Universidad Nacional Autonoma de Mexico (UNAM)**  
 November 9, 2009

**Introductory session:** This session is targeted as novice users but is a good refresher for infrequent users of BOLD. A maximum of 40 attendees will be accepted to allow for proper support during the hands-on training, It is highly recommended that this session be attended prior to the advanced course.

9:00am	Introduction and overview of general concepts BOLD, data structures and policies. [Sujeevan Ratnasingham]
9:30am	Data storage and management using the BOLD platform. [Megan Milton]
10:00am	Introduction to BOLD analysis tools. [Sujeevan Ratnasingham]
10:20am	Project management and data sharing. [Rodolpe Rougerie]
10:40am	Coffee break.

11:00am	Publishing data through BOLD and shared resources. [Taika von Kingslow]
11:20am	Hands-on training.
12:45pm	Lunch

**Advanced session:** This session is targeted at users who have already have experience using BOLD to manage barcode data. It's highly recommended that individuals attending this session also attend the introductory session as a refresher.

**BOLD Tools:**

2:00pm	Welcome and introduction. [Sujeevan Ratnasingham]
2:20pm	Managing data quality in barcode workflows. [Evgeny Zakharov]
2:40pm	Data interpretation using BOLD analytics. [Sarah Adamowicz]
3:00pm	Managing multi-gene projects. [Alex Smith]
3:10pm	Integrating GIS tools. [Alex Smith]
3:30pm	Coffee break.
4:00pm	Hands-on training

**3rd Party Tools:**

4:30pm	Overview of data exchange formats and web services for use with external tools. [Riadul Mannan]
4:40pm	Diagnostica: applications for barcode data [ Taika von Konigslow]
5:50pm	Visualizing amino acid variation in DNA barcodes [Justin Schonfeld]
5:00pm	BOLI Data portal. [Neil Sarkar]
5:15pm	Closing remarks. [Sujeevan]