Adelaide Barcode Conference, November 2011

Overview

BOLD Systems

The Barcode of Life Data Systems (BOLD) was established in 2005 with a mandate to provide informatics tools and databases in support of researchers building libraries of DNA barcodes - short standardized DNA sequences used to identify organisms. Over the past few years, BOLD has grown to become a powerful online workbench and the central informatics hub for the generation and publication of DNA barcodes. Visit the BOLD Systems site for more details at www.boldsystems.org.

4th International Barcode of Life Conference

The University of Adelaide will host the first-ever Southern Hemisphere barcode conference, co-organized by CBOL and co-hosted by several biodiversity institutions and initiatives in Australia. The goals of the conference are: highlighting the great progress barcoding has made since the Mexico City Conference in November 2009; learning about barcoding activities in Australia and the region; and bringing barcoders together to exchange ideas and plan new activities. The conference takes place from November 30th to December 3rd, 2011 with two days of pre-conference activities on November 28th and 29th. View the conference site for more information at www.dnabarcodes2011.org.

Staff from BOLD will be attending the conference to conduct a pre-conference workshop on Informatics, provide support via a conference booth, and present new research and initiatives for DNA barcoding during the conference sessions. The launch of the newest version of BOLD (BOLD 3.0) will also take place at the conference. Below are further details on the activities and events that we will be involved in.

Adelaide

Workshop

The pre-conference workshop on Informatics will be held on Monday, November 28th in Napier Hall. This workshop is already full; please contact CBOL at cbolinfo@si.edu to join the wait-list.

The workshop will have an overview of BOLD 3.0 features and example uses. The morning session will cover introductory level topics to help new users get started on BOLD, showcase new features and functionality available in BOLD 3.0, and demonstrate workflows for standard uses. Experienced users should take advantage of the refresher and gain knowledge of new functionality. The afternoon sessions will consist of domain specific presentations followed by mirror partners and other informatics tools and workflows.

Attendance to the first session requires an understanding of sequence analysis and some experience generating barcode data. The second session requires experience using BOLD to manage barcode projects. For the third session, having some technical knowledge of databases would be beneficial.

The following is the agenda for the workshop. Abstracts will be provided soon.

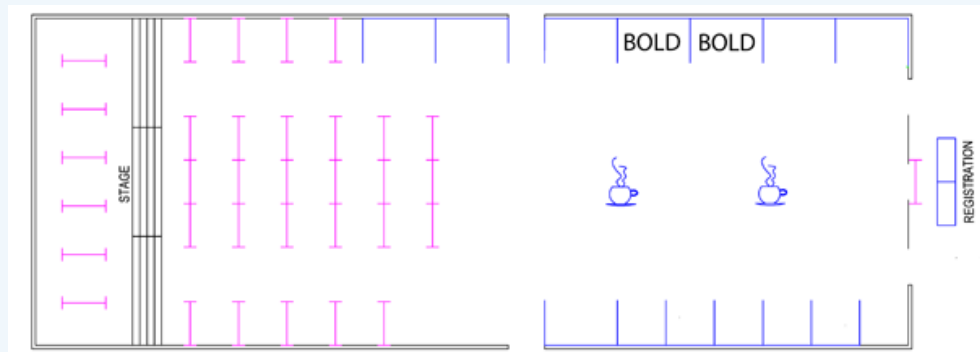| Time	Title of Talk	Presenter(s)
Session 1: Introductory Level Topics		
9:00 AM	Workshop Overview	Sujeevan Ratnasingham (BOLD)
9:00 AM	BOLD 3.0: an introduction	Sujeevan Ratnasingham (BOLD)
9:20 AM	Managing Barcode Data Library Generation	Megan Milton and Mallory Van Wyngaarden (BOLD)
9:40 AM	Barcode Data Life-cycle	Dr. Julie Stahlhut (BIO)
10:00 AM	Data Sharing/Collaboration and Publication using BOLD	Dr. Dario Lijtmaer (MACN)
10:10 AM	BOLD support for the barcoding of Plants	Dr. Aron Fazekas (BIO)
10:30 AM	*Coffee Break*	
11:00 AM	Barcode Data Standards for animals, plants & fungi	Dr. Robert Hanner (BIO)
11:20 AM	Bioinformatics Applications	Dr. Justin Schonfeld (BOLD)
11:40 AM	Campaigns on BOLD	Dr. Robert Hanner and Dr. Dirk Steinke (BIO)
12:00 AM	Live Demos and Q&A period	
12:30 PM	*Lunch Break*	
Session 2: Domain Specific Studies		
2:00 PM	Sessions Introduction	Sujeevan Ratnasingham (BOLD)
2:05 PM	Ecological Studies	Dr. Sarah Adamowicz (BIO)
2:20 PM	Regulatory Datasets	Dr. Dirk Steinke (BIO)

	Session 3: Mirrors and Data Partners	
2:40 PM	EU BOLD Mirror & Fungal Barcoding	Dr. Vincent Robert (CBS)
3:10 PM	BOLD Mirror Setup	Dr. Di Liu (CAS)
3:30 PM	*Coffee Break*	
4:00 PM	GenBank BarSTool	Dr. Ilene Mizrachi (NCBI)
4:20 PM	BOL Data Portal	Dr. David Schindel and Mike Trizna (CBOL)
4:40 PM	Geneious: Biocode and LIMS	Steven Stones-Havas (Geneious)
5:00 PM	Question and Answer Period	
5:30 PM	*Adjourn*	

Booth

Two adjacent booths in Bonython Hall have been reserved for BOLD during the conference (November 30 - December 3). They will be occupied by staff during conference hours and breaks. Information pamphlets and in-person tutorials will be available at the booth.

Bonython Hall

Floor Plan

Communication

The following BOLD staff will be attending the conference. Please feel free to find us at our booth in Bonython Hall.

Sujeevan Ratnasingham
Director of Informatics

Sujeevan is the lead architect of BOLD, and the creator of the system. He oversees the development of new functionality on BOLD and is heavily involved in requirements gathering activities. He's also involved with the establishment of data standards and data exchange protocols for barcode data.

Megan Milton
Data and Communication Lead

Megan handles communications and broadcasts for the BOLD team, as well as coordinating the efforts of the data managers. She joined the BOLD team in 2006 as a data manager, and has lead the data management team for the past 3 years. Her major projects with BOLD have included the online and print documentation for use of functions and tools (The BOLD Handbook) and coordinating BOLD workshops and training initiatives.

Catherine Wei
Programming Lead

Catherine joined the BOLD team in 2010 as a programmer and was recently appointed as the lead, coordinating efforts of the programming team. Catherine's background in bioinformatics and proteomics allowed her to quickly get involved with analytics development at BOLD. Her most recent contribution includes development on BOLD version 3.0.

Justin Schonfeld
Analytics Lead and Postdoctoral Fellow

Justin joined the Biodiversity Institute of Ontario in 2008 as a research fellow studying novel applications for barcode data. Recently, he was appointed as the lead of the BOLD analytics team and charged with integrating newly developed analytical methods for ecology, genetics, and biodiversity into the BOLD workbench. Current research focuses on the taxonomically broad analysis of variation in amino acids, indels, and genetic codes made possible by DNA barcode data.

Mallory Van Wyngaarden
Data Manager and Outreach Assistant

As a data manager, Mallory validates and uploads batch submissions as well as provides user support. She has been with BOLD for over a year and a half and recently joined the Communications and Outreach team to support educational barcoding initiatives as well as geographical barcode surveys, most notably the National Ecological Observatory Network. Mallory's most recent contribution has been developing workflows for educators using BOLD.

Eddie Ma
Ph.D. Candidate

Eddie is currently doing his Ph.D. in Computer Science at the University of Guelph. As part of his thesis, he is developing an automated pipeline for the assembly of barcode sequences from raw trace files using machine learning methods.

Social Media

We will be using social media tools to get feedback, respond to questions and provide updates on our activities at the conference. Please also feel free to contact us via email at info@boldsystems.org.

	Follow us on Twitter!	twitter.com/BOLDteam
	Join our group on Connect!	connect.barcodeoflife.net/group/boldsystems
	Like us on Facebook!	www.facebook.com - Search "Barcode of Life Data Systems"