

Agenda for DAWG Meeting in San Diego

All meetings will be held in the Torrance Room

Monday

- 8-8:30: Collective coffee and breakfast with Leading Labs in Seaview Room
- 8:30-8:45 Review of goals and deliverables under 2008-2010 Sloan Foundation grant (*D. Schindel*)
- 8:45-9:00: Introductions (*N. Sarkar*)
- 9:00-9:15: Status of Proceedings Volume from Taipei Barcode Conference, and plan for publications of DAWG papers from Taipei (*N. Sarkar*)
- 9:15-9:45: Vladimir Pavlovic, "Alignment-free barcoding"
- 9:45-10:15: Saverio Vicario, "Phylogenetic Database Query System for Probabilistic Species Determination: Using a hierarchical approach to combine Blast or HHM search with approximated Bayesian phylogenetic inference"
- 10:15-10:30: Mid-Morning Break
- 10:30-11:00: Brian Golding, "Analyzing barcode sequences in a coalescent context"
- 11:00-11:30: Giovanni Felici, "Logic learning methods for barcode classification"
- 11:30-12:00: Donal Hickey, "Should DNA barcoding be both taxonomy-free and phylogeny-free?"
- 12:00-1:00: Group lunch in Seaview Room
- 1:00-1:15: Goals and plans for BOLI Data Portal (*D. Schindel*)
- 1:15-2:15: Walk-through of BOLI Data Portal mock-up, followed by discussion (*M. Trizna*)
- Server location of Portal
 - Major components of workflow
 - Barcode data sources
 - Data format standardization
 - Identify software categories and analytical packages for Portal
 - Identify model datasets and characteristics
 - Multi-gene capabilities: What needs to be done for BOLI Data Portal to enable standard storage and analysis of multi-locus barcode data (e.g., pending 2 or 3 locus plant barcodes)?
- 2:15-2:45: Henry Lu, "Information visualization and fusion for barcodes of life in environment and society"
- 2:45-3:30: Robert Stones, "Bioinformatics Tools for Data Mining/Visualization" (Demo)
- 3:30-3:45: Mid-Afternoon Break
- 3:45-4:30: Display and visualization of barcode data: discussion of needs and potential approaches
- 4:30-5:30: Structured discussion of data portal development and implementation
- 6:00: Meet in hotel lobby for transportation to San Diego Zoo for Dinner Reception

Tuesday

8:00-8:30: Collective coffee and breakfast with Leading Labs in Seaview Room

8:30-9:00: Background for the joint DAWG-Leading Lab Meeting:

- DAWG discussion in Taipei
- Brief status report on DAWG software development activities

9:00-10:30: Issues on which DAWG wants input from Leading Labs (and I'm just guessing here):

- What's the current range of off-the-shelf analytical techniques available to barcoders?
- What's the 'ideal' interface for integrating information from heterogeneous sources?
- What's the normal workflow for data analysis?
- How should current barcoding analysis tools be improved/extended to meet your needs?
- What technical limitations on data analysis have you encountered? (number of replicates, species, sequence length, number of regions)
- What are the data management challenges at the data analysis stage?
- What formats do you prefer for data input and output?
- What capabilities and approaches to data display and visualization would you like to see?

10:30-10:45: Mid-Morning Break

10:45-12:00: Desiderata from Leading Labs to DAWG:

- For data management tools
- For data analysis tools
- For sample datasets
- For data display and visualization tools
- For software testing environment

12:00-1:00: Group lunch in Seaview Room

1:00-1:30: Recap of needs and priorities expressed by Leading Labs

1:30-3:00: Discussion of:

- DAWG work-plan and timeline for construction of BOLI Data Portal
- Potential need for additional funding
- Design and leadership for possible grant proposals

3:00-3:30: Mid-Afternoon Break

3:30-5:00: Final agreements on:

- Work-plan and division of labor
- Timeline and deliverables
- Project leadership
- Development of funding proposals

Wednesday

Optional on-site meeting with staff of the Community Cyberinfrastructure for Advanced Marine Microbial Ecology Research and Analysis (CAMERA) at the University of California, San Diego