

Proposed Activities

Theme	Working Group	Node Activities / Priorities
DNA Barcode Library	1.1 Vertebrates	In Mexico collections should be registered in the environment ministry (SEMARNAT). Several vertebrate collections have already frozen tissue collections associated with them. We plan to barcode material from collections, whenever is possible to extract DNA from them. Within MEXBOL one of the working themes is mammals and the other is fish, because there are several researchers in these groups, but there are also undergoing projects with birds, and herps. Currently active collecting on fish are carried on, due that material from collections is not possible to be barcoded
	1.2 Land plants	There are important herbaria and botanical gardens in Mexico. We intend to barcode all possible material from these two sources. Botanists are undertaking complete barcoding of floras starting in 2010, examples are Calakmul, Los Tuxtlas, and Chamela
	1.3 Fungi	We started to barcode fungi hosted in collections of Mexico. There is a strong interest among Fungi taxonomist in Mexico to participate in this campaign.
	1.4 Parasites, Pathogens & Vectors	We will start with the Health ministry to work on mosquito identification and barcoding
	1.5 Agricultural & Forestry Pests and their Parasitoids	We have several groups starting to work on this. <i>Anastrepha</i> fly is already been worked. One group is starting with parasitoids, and another with thrips (fruiting trees pests)
	1.6 Pollinators	The insects group will promote this work. Currently we have good results with Lepidoptera, bees, wasps, and aquatic insects.
	1.7 Freshwater Bio-surveillance	Manuel Elías is leader on aquatic invertebrates group. Currently freshwater zooplankton is among the most advanced groups in the world.
	1.8 Marine Bio-surveillance	We started the work on polychaetes, pteropoda, and amphipoda, with good results. We have material from NOAA cruises in the Caribbean, and we'll start to work with it. There is also a project with Sponges being started in the Pacific Coast.
	1.9 Terrestrial Bio-surveillance	

	1.10 Polar Life	
Methods	2.1 Barcoding Biotas	We will start with two ATBI projects in tropical ecosystems, the Biosphere Reserve of Los Tuxtlas in Veracruz State and the Biosphere Reserve of Chamela in Jalisco State, led by Virginia León Regagnon and Patricia Escalante/Rosamond Coates
	2.2 Museum Life	Based on recent botanical projects undertaken by the National Herbarium there are several projects being developed that are relying only in museum collections. The areas selected are priority areas within the Mesoamerican hotspot of biodiversity.
	2.3 Sequencing: Methodological Innovation	We already started to establish methodologies for barcoding with difficult groups. Currently we have success with rotifers where more than 90% of the material can be amplified.
	2.4 Paleobarcoding	Not at this moment
Informatics	3.1 Informatics: Core Functionality	With the auspices of CONACYT the network has funds for meetings, training, and the development of the lab internal nodes.
	3.2 Informatics: Mirrors	The Comisión Nacional para el Conocimiento y el Uso de la Biodiversidad (CONABIO) will establish the Mexican Mirror for the database. Right now they have the hardware support and are in the process to stabilize the system. Already Raul Jimenez Rosenberg, responsible of bioinformatics is in contact with Sujeevan Ratnasingham for this work
Applications & Technologies	4.1 Environmental Barcoding	Not at this moment
	4.2 Mobile Barcoding	In the future
Administration	5.1 Project Management	Not at this moment
	5.2 Communications	Not at this moment
GE3LS	6.1 Equitable Use of Genetic Resources	
	6.2 Regulation of international trade	
	6.3 Intellectual property and knowledge	We are interested in the progress of this issue, but we have no direct participation on it.

management	
6.4 Education initiatives for schools and media	We already started and last May we organized the Week for Biodiversity in Chetumal city. Next week will be the Science, and we will participate with talks in different schools. Already we had interviews in main media (TV and radio) about barcoding and their goals.
6.5 Governance of knowledge mobilization	
6.6 Barcoding and Biological Classification (proposed)	