

Recent Advances in Conservation Genetics 2009

	Sunday 1/18	Monday 1/19	Tuesday 1/20	Wednesday 1/21	Thursday 1/22	Friday 1/23	Saturday 1/24	
	Bienvenidos!	Getting Started: Sampling	Getting Started: Genetic Markers	Sequence Analyses Part I	Sequence Analyses Part II	Population Genetics More Microsatellites	Advanced Technologies	
7:00 AM		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	
7:30 AM								
8:30 AM		Panama Introduction (Local Staff)	Comparative Genomics (O'Brien)	Sequence Data, Sequencher (Roca)	Epidemic disease and phylogenetic diversity of an amphibian community (Crawford)	Population Genetics (Roca)	Microsatellites & populations, phylogenies, PCA, Structure (Johnson, Antunes)	
9:00 AM								
9:30 AM								
10:00 AM								
10:30 AM		Student Session#2	Data-Mining, NCBI, Perl (Part 1) (Pontius)	Clustal X, SeqAL, MEGA (compile sequences) (Slattery)	Advanced Phylogenetics (Part 2): PAUP (Wilgenbusch)	Bustamante (I)	SNPs, theory, Inferring haplotypes, STRUCTURE/PSAT Software: Sequencher, Eigensoft-pop structure, LD Blocks (Hendrickson)	
11:00 AM								
11:30 AM		Computer Labs and Basic Housekeeping Rules (Bailey)						
12:00 PM		Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	
12:30 PM								
1:00 PM	Arrivals	Sampling Strategies, collection, preservation (Oris Sanjur)	Primer Design (Roca)	More data mining; Perl 2 (primer design, repeat masking, etc) (Pontius/staff)	PAUP Wrap up (Wilgenbusch)	Wayne (II)	MicroArray, Sequencing technology and Demos (Hendrickson)	
1:30 PM			Intro to Microsatellites (Roca)					
2:00 PM		Sample Label and Tracking (Bailey)	PCR Tricks and advanced topics (David)	Basics of Phylogenetics (Slattery)	DNA Barcoding (Paul Hebert)	Computer Time (Johnson, Crawford)		
2:30 AM								
3:00 AM			Discussions of DNA Extraction, Ancient DNA, Quantification, Quality, Storage (Luo, Sanjur, Crawford, etc.)	Advanced Topics/Trouble shooting Genotyper, Allelogram (David), usat toolkit	Advanced Phylogenetics (Part 1): PAUP (Wilgenbusch)	Other Phylogenetic programs, Intro to Bayesian Phylogenetics: Mr.Bayes, BEAST, Max Likelihood programs (Crawford)	Gene Mapping (David)	Travel to Naos
3:30 AM								
4:00 PM			Marker Selection- Historical Perspective (Harilaos Lessios)					Tour of Naos Marine Labs
4:30 PM								
5:00 PM								
5:30 PM								
6:00 PM	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner		
6:30 PM								
7:00 PM								
7:30 PM	Introduction/O'Brien						Mid-Term Fiesta Culebra	
8:00 PM								
8:30 PM	15 Student	Biff Birmingham	Al Roca	Paul Herbert	Robert Wayne	Carlos Bustamante		
9:00 PM	Introductions/3 min.							
9:30 PM	Presentations							
10:00 PM								

Times, topics, and speakers are flexible and are be subject to some modification.

Recent Advances in Conservation Genetics 2009

	Sunday 1/25	Monday 1/26	Tuesday 1/27	Wednesday 1/28	Thursday 1/29	Friday 1/30	Saturday 1/31
	Paseo al Campo	Coalescence, etc.	Molecular Ecology Infectious Disease	Analyses of Proteins	Genetics: Bringing it all together	Genetics: Bringing it all together	Wrapping up & Hasta Luego
7:00 AM	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
7:30 AM							
8:30 AM	Barro Colorado Island Field Trip	Intro to Dating Methodologies: Lintree, Divtime, etc (Eizirik)	MHC and Adaptive Evolution (Edwards)	Cat Domestication (Driscoll)	Free Time (Suggest Hiking in Gamboa or Locks Trip)	Ryder (I)	Evaluations & Checkout
9:00 AM							
9:30 AM							
10:00 AM							
10:30 AM			Mammal and Felid Evolution Stories (Eizirik, Johnson, Luo)	Bowen (II)	Intro to Protein Analyses, Molecular Selection, sex chromosomes (Slattery)		Nomenclature, hybridization, and conservation: S. A. examples (Eizirik)
11:00 AM							
11:30 AM				Colour pattern, single trait driving speciation in coral reef fishes? (Puebla)			Genetics, captive tigers, Wildlife Trade, Infectious Disease (Luo)
12:00 PM							
12:30 PM			Lunch	Lunch	Lunch	Lunch	
1:00 PM							
1:30 PM			Inferring Demographic history in a marine species after mass mortality (Lassios)	Computer Programs (Eizirik)	Selection detection, TreeSAAP, Arlequin, MEGA, DNAsp, PAML (Slattery, Hendrickson, Eizirik)	Computer Lab: Review, Student Data Sets (Staff)	Conservation Topics & Round Table Discussion (Driscoll and student topics)
2:00 PM							
2:30 AM			Computer Programs (Antunes, Hendrickson, Johnson)	Infectious Disease (Obrien)	Intro to Protein Modeling (Pontius)	Baker (II)	Conservation Topics & Round Table Discussion (Marker)
3:00 AM							
3:30 AM							
4:00 PM							
4:30 PM		Computer Programs: LAMARK, IM (Eizirik)	Phylogenetics: phylodynamics to host specificity and adaptation in disease emergence (Slattery)	Data Mining 2 (Pontius)	Laurie Marker	Practical Solutions: Examples from STRI? (Birmingham)	
5:00 PM							
5:30 PM							
6:00 PM	Dinner	Dinner	Dinner	Dinner			
6:30 PM							
7:00 PM							
7:30 PM					Closing Fiesta Gamboa		
8:00 PM							
8:30 PM	Brian Bowen	Scott Edwards	Warren Johnson	Scott Baker			Oliver Ryder
9:00 PM							
9:30 PM							
10:00 PM							
							Departures

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