	Monday August 16 - DAY 0 *SET-UP, ARRIVALS, WELCOME*	time	Tuesday Aug 17 - DAY 1 *SAMPLING, PCR DAY*	time	Wednesday Aug 18 - DAY 2 *CONSERVATION GENOMICS DAY*	time
AM	**LGD SETUP at CRC**		**SAMPLING STRATEGIES: Collection & Preservation; difficult DNA** Introduction - **Gila Kahila Bar-Gal** Ancient DNA: methods & applications - **Gila Kahila Bar-Gal & Jennifer Leonard** Whole Genome Amplification Technology - **Shujin Luo** Discussion **STUDENT SESSION #2**	8:15 11:00-12:00	**GENOMIC DATABASES** Introduction - **Bill Murphy** NCBI presentation **- Wayne Matten** Lecture: Comparative Genomics - **Steve O'Brien**	 8:15-8:30 8:30 - 10:45 11:00-12:00
PM	**ARRIVALS**		Introduction to Computers and Datasets **- Bailey Kessing** **PCR: Victor David, Marilyn Raymond** INTRODUCTION ADVANCED PCR / TROUBLESHOOTING GENESCAN **STUDENT SESSION #3**	1:15 -1:30 1:30 - 4:00 4:00-5:00	**APPLICATIONS OF DATABASES TO PCR** LECTURE: Applications - when to use STRS, Sequence, SNPs **- Emma Teeling & Gila** COMPUTER LAB: Primer Design - Basic and Advanced; comparative analysis **- Bill Murphy, Emma, Al Roca**	 1:15 -2:15 2:30-5:00
EVENING	**Welcome**- **Steve O'Brien, Jan Martenson, CRC person** **STUDENT SESSION #1**	8:15 PM 8:45-9:45	**Plenary Lecture- Peter Dratch** **"Forensic Applications and Use of Genetic Studies for Island Populations Often Found in National Parks"**	8:15 PM	**Plenary Lecture - Al Roca** **"Conservation Genetics of Elephants"**	8:15 PM

	Thursday Aug 19 - DAY 3		Friday Aug 20 - DAY 4		Saturday Aug 21 - DAY 5	
	Markers	*time*	*POPULATION GENETICS DAY 1*	*time*	*POPULATION GENETICS DAY 2*	*time*
AM	**"Taming the Complex" - MHC: overview and applications - Colm O'hUigin**	8:15-9:45	**INTRODUCTION to POPGEN BASICS - Bob Vrijenhoek**	8:15-9:30	**LECTURE: Felidae phylogeny - Warren Johnson**	8:15 - 9:15
	"Diving Deep for Molecular Markers in Marine Organisms: AFLP, ITS, rRNA Studies" - Joe Lopez	10:00	**COMPUTER LAB: Jill Slattery, Warren Johnson** uSAT PHYLIP ARLEQUIN: HWE, FST, RST	9:45 - 12:00	**COMPUTER LAB: Jill Slattery, Eduardo Eizirik** Nested Clade Analyses; Mega - **Eizirik** TCS - **Slattery**	9:30 - 12:00
	STRs computer lab: Victor, Marilyn, Shujin, Warren PROGRAMS FOR EVALUATING QUALITY: Genotyper, Allelogram	11:00				
PM	**CRC TOUR**	1:00-3:30	**COMPUTER LAB: arlequin- sequence data**	1:15-2:15	**KINSHIP AND PATERNITY-LECTURES:** Y-Chromosome: **Jill Slattery** Panda story - **Victor David**	1:15 - 2:15
	SEQUENCE programs: LGD staff SEQUENCHER - **Al Roca** Se-Al - **Emma Teeling** CLUSTAL - **Jill Slattery** Troubleshooting	3:45-5:30	**LECTURE: Evidence for a new tiger subspecies - Shujin Luo** **Two rotating sessions, 45 min ea** **a) Non-automated detection methods for microsats/ library screening - Marilyn Raymond** **b) Library construction- Victor David**	2:30-3:30 3:45-5:15	**COMPUTER PROGRAMS - LGD** CERVUS RELATEDNESS **DATASET TIME**	2:30-4:15 4:30-5:30
EVENING	**Plenary Lecture - Gordon Luikart** **"Detecting Selection in Natural Populations"**	8:15 PM	**Plenary Lecture - Bob Vrijenhoek** **"Discovering Biodiversity at the Bottom of the Ocean"**	8:15 PM	**Plenary Lecture - Jim Hamrick** **"The Use of Genealogical Analyses in Plant Conservation Genetics"**	8:15 PM

	Sunday Aug 22 - DAY 6 *METHODS DAY*	*time*	Monday August 23 - DAY 7 *PHYLOGENETICS DAY (PAUP)*	*time*	Tuesday Aug 24 - DAY 8 *SPECIAL TOPICS DAY*	*time*
AM	**REVIEW OF ADDITIONAL METHODS - LGD** CLONING - **Jen Troyer** SNP development & detection - **Mike Dean** Dataset consultations with LGD staff	8:15	**INTRO TO APPLICATIONS - Jill Slattery** **LECTURE and PAUP LAB PART 1 - Jim Wilgenbusch**	8:15-9:15 9:30-12:00	**"Using Ancient DNA in Conservation Biology" - Rob Fleischer** **Viral Pathogens** - **JenT** **"CDV Outbreak in Serengeti Lions" - M.Roelke** **"Genetic Analysis of Introduced Disease: Hawaiian Birds, Avian Malaria and Invasive Mosquitoes" - Rob Fleischer**	8:15 - 9:00 9:00-9:45 10:00-10:45 11:00-12:00
PM	**Free time** hiking canoeing	noon	**PAUP LAB 2 - Wilgenbusch**	1:15 - 5:00	**II. SELECTION DETECTION-** **LECTURE: Adaptation & Coalescence - Aquadro** **SELECTION - COMPUTER PROGRAMS** Population selection: arlequin (fsats and tajima D); DNAsp - **Eduardo Eizirik** Genomic Selection, PAML **- Jill Slattery** **DATASET TIME**	 1:15-2:15 2:30
EVENING	**PICNIC**	7:00 PM	**Plenary Lecture- Chip Aquadro** **Topic: "Looking for Signatures of Selection"**	8:15 PM	**Plenary Lecture- Brian Bowen** **Topic:** tba	8:15 PM

	Wednesday Aug 25 - DAY 9		Thursday Aug 26 - DAY 10		Friday Aug 27 - DAY 11	
	BAYESIAN DAY / POPULATION STRUCTURE	***time***	***PUTTING IT ALL TOGETHER DAY***	***time***	***DEPARTURE DAY***	***time***
AM	**Intro to STRUCTURE and Bayesian Technology - Eric Anderson**	8:15-9:30	TBA	8:15-9:15	**EVALUATIONS**	9:30
	STRUCTURE-Anderson	9:45 - 11:00	**Observing animal** anesthesia - **Mitch Bush**	9:30		
	LAMARC PACKAGE (Migrate, Fluctuate, etc): Bailey Kessing, Eduardo Eizirik, Carl McIntosh	11:00-12:00			**DEPARTURES**	11am - on
PM	**BAYESIAN Applications lecture: MAMMALIAN EVOLUTION molecular clocks, dating using Bayesian methods- Bill Murphy**	1:15-2:15	**DATASETS:** Working through results; interpreting, making recommendations	1:15		
	COMPUTER PROGRAMS -Bill Murphy & Eduardo Eizirik MR. BAYES DIVTIME	2:30	Florida Panther story - **Warren**			
			Controversial topics for debate: - ESUs, MUs, etc.... Genetic Foundations for Setting Conservation Priorities			
	DATASET TIME		**led by Bowen, Baker, O'Brien, Johnson, Eizirik**			
EVENING	**Plenary Lecture - Scott Baker "www.DNA-surveillance - Applied Molecular Taxonomy for Species Discovery and Conservation"**	8:15 PM	**PARTY**	7:00 PM		