



Methods in Personal Genetics and DNA Barcoding: DNA Sequencing, PCR, and Taq Supply Chain Production

Santiago Canyon College, Orange, California June 7-9, 2023

Wednesday	8:30 AM	Coffee	Registration and sign-in
June 7	9:00 AM	CONCEPT	Workshop Introduction and Experiment Flow
	9:30 AM	LAB	DNA Barcodes: Plant and Food DNA Isolation
			DNA Barcodes: Commercial PCR
	10:30 AM	Break	
	10:45 AM	LAB	Human DNA Isolation
			Human Mt DNA: Commercial PCR
	12:00 PM	Lunch	
	1:00 PM		DNA Barcodes: Gel Electrophoresis
			Human Mt DNA: Gel Electrophoresis
			Prepare positive PCRs for sequencing
	3:00 PM	CONCEPT	Tag Polymerase Supply Chain
	3:30 PM	LAB	SimpleTaq Production: Overnight Culture
	4:30 PM		Simple Luq 1 roduction. Overlight Culture
	4.30 1 WI	Distilliss	
Thursday	8:30 AM	Coffee	
June 8	9:00 AM	LAB	SimpleTaq production: Taq Isolation
	10:00 AM	Break	
	10:15 AM	CONCEPT	The Dynamic Genome and Human Alu Insertion Polymorphism
	11:00 AM	LAB	Human Alu Insertion: Commercial vs. SimpleTaq PCR
			Human PTC SNP Polymorphism PCR
	12:00 PM	Lunch	
	1:00 PM	LAB	Human PTC SNP Polymorphism Restriction Digest
			Human Alu Insertion: Gel Electrophoresis
	1:30 PM	ANALYSIS	Human Alu Insertion: Bioservers Population Genetics
	2:30 PM	LAB	Human PTC SNP Polymorphism Gel Electrophoesis
	3:00 PM	CONCEPT	DNA and Senses
	4:00 PM	ANALYSIS	Human PTC SNP Polymorphism Genotype-Phenotype Analysis
	5:00 PM	Dismiss	
	6:00 PM	Dinner	Night Out on DNALC
Friday	8:30 AM	Coffee	
June 9	9:00 AM	CONCEPT	What DNA Says About Our Human Family
	10:00 AM	Break	
	10:15 AM	ANALYSIS	Human Mt DNA: Single Nucelotide Polymorphisms
	10.00 53.5	T 1	Population Diversity and Ancient Ancestors
	12:00 PM	Lunch	
	1:00 PM	CONCEPT	DNA Barcoding and Examples of Student Projects
	2:00 PM	ANALYSIS	DNA Barcodes: DNA Subway Analysis
	3:30 PM	DISCUSSION	Implementation and Reagent Support
	4:00 PM	Dismiss	