

UNIVERSITY OF SOUTHERN CALIFORNIA

BISC320L: Formal Lab Report

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1 INTRODUCTION

1.1 ISOLATION OF DNA FROM CHEEK CELLS

1.2 PCR

1.3 *Alu* INSERTS

1.4 PV92 LOCUS

1.5 HARDY-WEINBERG EQUILBRIUM

1.6 POPULATION GENETICS

1.7 AGAROSE GEL ELECTROPHORESIS

2 MATERIALS & METHODS

2.1 ISOLATION OF DNA FROM CHEEK CELLS

2.2 POLYMERASE CHAIN REACTION PROCEDURE

2.3 PCR CONDITIONS

2.4 AGAROSE GEL ELECTROPHORESIS PROCEDURE

2.5 HARDY-WEINBERG ANALYSIS OF CLASS DATA

3 DATA & RESULTS

3.1 IMAGE OF DNA AGAROSE GEL SHOWING RESULTS OF PCR

3.2 MY GENOTYPE FOR ALU INSERTION

3.3 OBSERVED CLASS GENOTYPIC FREQUENCIES

Category	Number of Genotypes	Frequencies(# genotypes/Total)
Homozygous(+ / +)		
Heterozygous(+ / -)		
Homozygous(- / -)		
	Total=	=1

Category	Number	Class Allelic Frequencies
total (+) alleles = p		
Total (-) alleles = q		
	Total Alleles=	=1.00

4 DISCUSSION

4.1 WHAT IMPORTANT COMPONENTS ARE IN THE PCR MASTER MIX?

4.2 EXPLAIN WHY PRECISE TARGET DNA SEQUENCE DOES NOT GET AMPLIFIED UNTIL

THE THIRD CYCLE IS COMPLETED. MAKE DIAGRAM :- /

5 CONCLUSION