

PDF FREE PEDIGREE ANALYSIS WORKSHEET [PDF]

18 WRITE THE GENOTYPES FOR EACH INDIVIDUAL ON THE PEDIGREE DETERMINING INHERITANCE PATTERNS 19 WHEN WORKING THROUGH A PEDIGREE THE FIRST THING YOU NEED TO DO IS FIGURE OUT WHICH CHARACTERISTIC IS DOMINANT THE SHADED ONE OR THE UN SHADED ONE THEN YOU NEED TO CHOOSE A LETTER LET S USE A AND BEGIN ASSIGNING GENOTYPES DO YOU WANT TO TEST YOUR KNOWLEDGE OF PEDIGREES AND GENETIC INHERITANCE CHECK OUT THIS WEBPAGE FROM BIOLOGY LIBRETEXTS WHERE YOU CAN FIND PRACTICE PROBLEMS AND SOLUTIONS ON HOW TO ANALYZE PEDIGREES AND DETERMINE THE MODE OF INHERITANCE THE GENOTYPES AND THE PHENOTYPES OF THE INDIVIDUALS THIS WEBPAGE IS PART OF A COMPREHENSIVE ONLINE RESOURCE ON CLASSICAL GENETICS COVERING TOPICS SUCH AS WORKSHEET ON PEDIGREE ANALYSIS SHOWING FAMILY TRAITS PEDIGREE ANALYSIS AP BIO THIS WORKSHEET WAS DESIGNED FOR AP BIOLOGY STUDENTS STUDYING GENETICS STUDENTS ARE NOT GIVEN THE INHERITANCE PATTERN FOR DISEASES LIKE MARFAN SYNDROME AND CHARCOT MARIE TOOTH DISEASE A TYPICAL PEDIGREE FOR A FAMILY THAT CARRIES FALCONI ANEMIA NOTE THAT CARRIERS ARE NOT INDICATED WITH HALF COLORED SHAPES IN THIS CHART FF ANALYSIS QUESTIONS TO ANSWER QUESTIONS 1 5 USE THE LETTER F TO INDICATE THE RECESSIVE FALCONI ANEMIA ALLELE AND THE LETTER F FOR THE NORMAL ALLELE 1 WHAT IS ARLENE S GENOTYPE 2 WHAT IS GEORGE S THESE DIAGRAMS MAKE IT EASIER TO VISUALIZE RELATIONSHIPS WITHIN FAMILIES PARTICULARLY LARGE EXTENDED FAMILIES PEDIGREES ARE OFTEN USED TO DETERMINE THE MODE OF INHERITANCE DOMINANT RECESSIVE ETC OF GENETIC DISEASES A SAMPLE PEDIGREE IS BELOW IN A PEDIGREE SQUARES REPRESENT MALES AND CIRCLES REPRESENT FEMALES BY EXAMINING A PEDIGREE CHART GENETICISTS TRACK THE INHERITANCE OF SPECIFIC TRAITS OR GENETIC DISORDERS WITHIN A FAMILY THE CHART CAN REVEAL THE PATTERN OF INHERITANCE OR WHETHER A GENE IS DOMINANT RECESSIVE OR EVEN SEX LINKED PEDIGREES WORKSHEET 1 INTRODUCTION SCIENCENOTES ORG NAME DATE MATCH THE FOLLOWING B C D E G GENOTYPE DOMINANT ALLELE PHENOTYPE PEDIGREE AUTOSOMAL TRAIT RECESSIVE ALLELE TRAIT SEX LINKED TRAIT HOMOZYGOUS 1 A CHARACTERISTIC ASSOCIATED WITH A GENE 2 THE SET OF GENETIC INFORMATION THAT MAKE UP THE CHROMOSOMES OF AN INDIVIDUAL ORGANISM 3 THESE DIAGRAMS ARE USED TO DETERMINE THE MODE OF INHERITANCE OF A PARTICULAR DISEASE OR TRAIT AND TO PREDICT THE PROBABILITY OF ITS APPEARANCE AMONG OFFSPRING PEDIGREE ANALYSIS IS THEREFORE AN IMPORTANT TOOL IN BOTH BASIC RESEARCH AND GENETIC COUNSELING DESCRIPTION IN THIS ACTIVITY STUDENTS INTERPRET SEVERAL PEDIGREES OF AUTOSOMAL DOMINANT AND RECESSIVE CONDITIONS AND CONSIDER THE BENEFITS AND LIMITATIONS OF GENETIC TESTING STUDENTS ANSWER MULTIPLE CHOICE QUESTIONS ABOUT THESE PEDIGREES AND EXPLAIN THEIR REASONING FOR SOME QUESTIONS THE GOAL IS NOT TO GET THE RIGHT ANSWER BUT RATHER PEDIGREES PRACTICE SUBJECT THIS WORKSHEET LOOKS AT PEDIGREES IN FAMILIES WITH ALBINISM TRACK THE ALLELES AS THEY ARE PASSED FROM ONE GENERATION TO THE NEXT AND RECORD THE GENOTYPES OF FAMILY MEMBERS KEYWORDS PEDIGREE GENETICS ALLELE GENE 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