Student Notes: Ch. 12 Origins of Hereditary Science homozygous To understand how genetic traits are passed Why is it from parents to offspring and how it relates to important? evolution and natural selection heterozygous Vocabulary is very imporant in this chapter! Heterozygous or Homozygous?? Genotypes Phenotypes genotype TT - Homozygous Heterozygous Yellow **Dominant** (Hybrid) tt - Homozygous BB - Homozygous Aa phenotype Recessive **Dominant** bb - Homozygous aa Green Bb - Heterozygous dominant Recessive (Hybrid) luzierscience.weebly.com recessive **Gregor Mendel explained patterns** Punnett squares determine the of heredity in 1800's probability of offspring's traits Pedigree for Cystic Fibrosis Roberts Family Carson Family Bill Dan Ann Karen Barbie Ken Sally carrier female affected female Cc Heterozygous = (Ff) 50% unaffected female unaffected male affected male carrier male **Punnett Square**