


KAPITAŁ LUDZKI
 NARODOWA STRATEGIA SPÓJNOSTI

UNIA EUROPEJSKA
 FUNDUSZ SPÓŁCZESKI


"PROiP: Uniwersytet Jana III Szajbera w Gdańsku poprzez współpracę z Uniwersytetem Houston-Dowtown"
 Projekt współfinansowany ze środków Unii Europejskiej w ramach Europejskiego Funduszu Społecznego

Introduction to Human Genetics

Module 1 Mendelian genetics

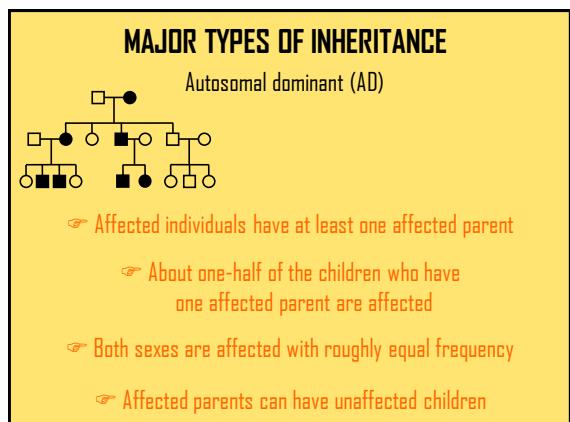
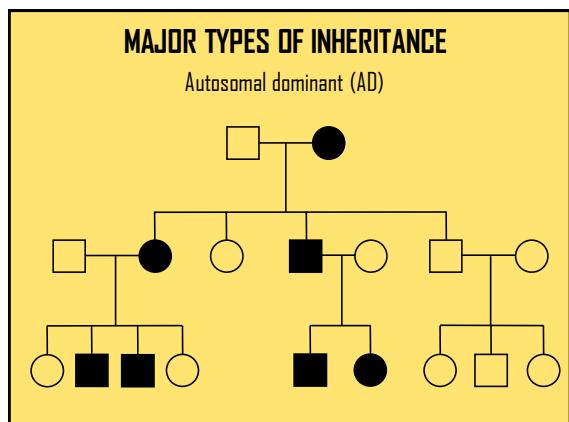
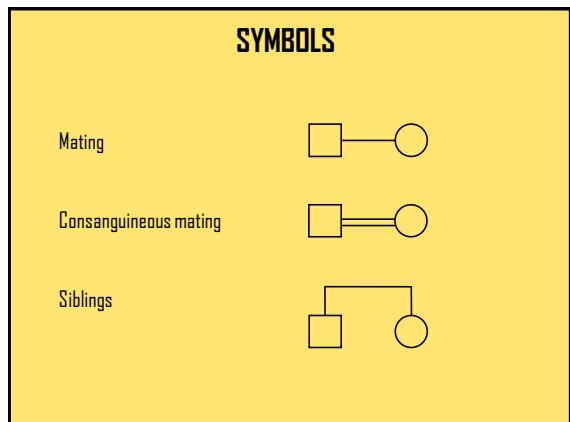
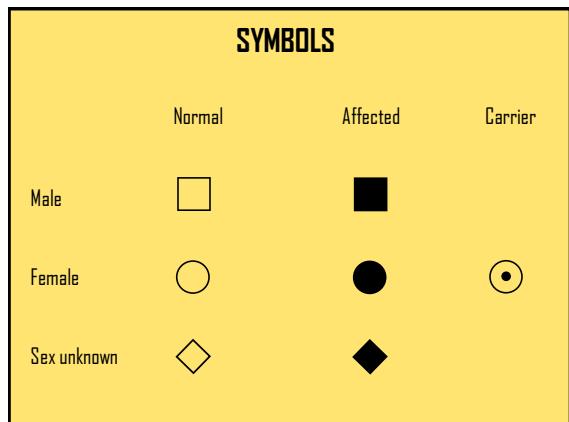
Pedigrees


UNIWERSYTET GDAŃSKI

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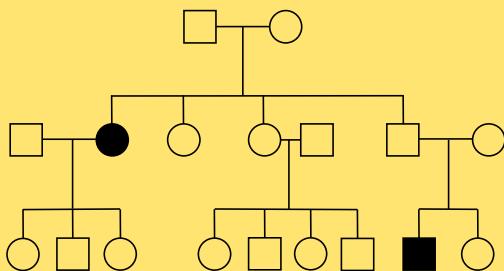


Pedigree charts
 are a way of tracing the pattern of inheritance
 of a genetic condition through a family

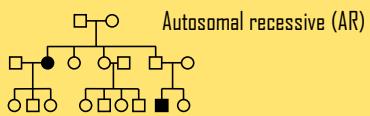


MAJOR TYPES OF INHERITANCE

Autosomal recessive (AR)



MAJOR TYPES OF INHERITANCE



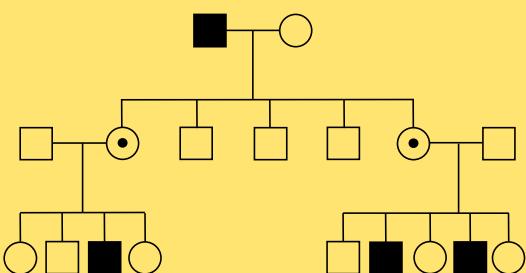
☞ Most affected individuals have normal parents

☞ 25% chance that a child of heterozygotes will be affected

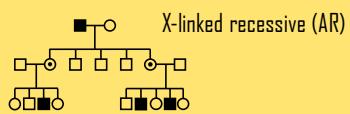
☞ Both sexes are affected in roughly equal numbers

MAJOR TYPES OF INHERITANCE

X-linked recessive (AR)



MAJOR TYPES OF INHERITANCE



☞ Hemizygous males are affected and transmit the trait to all their daughters, but not to any son

☞ Heterozygous females are unaffected carriers

☞ Phenotypic expression is much more common in males than in females

For more information,
see Supplementary Materials

THE END