

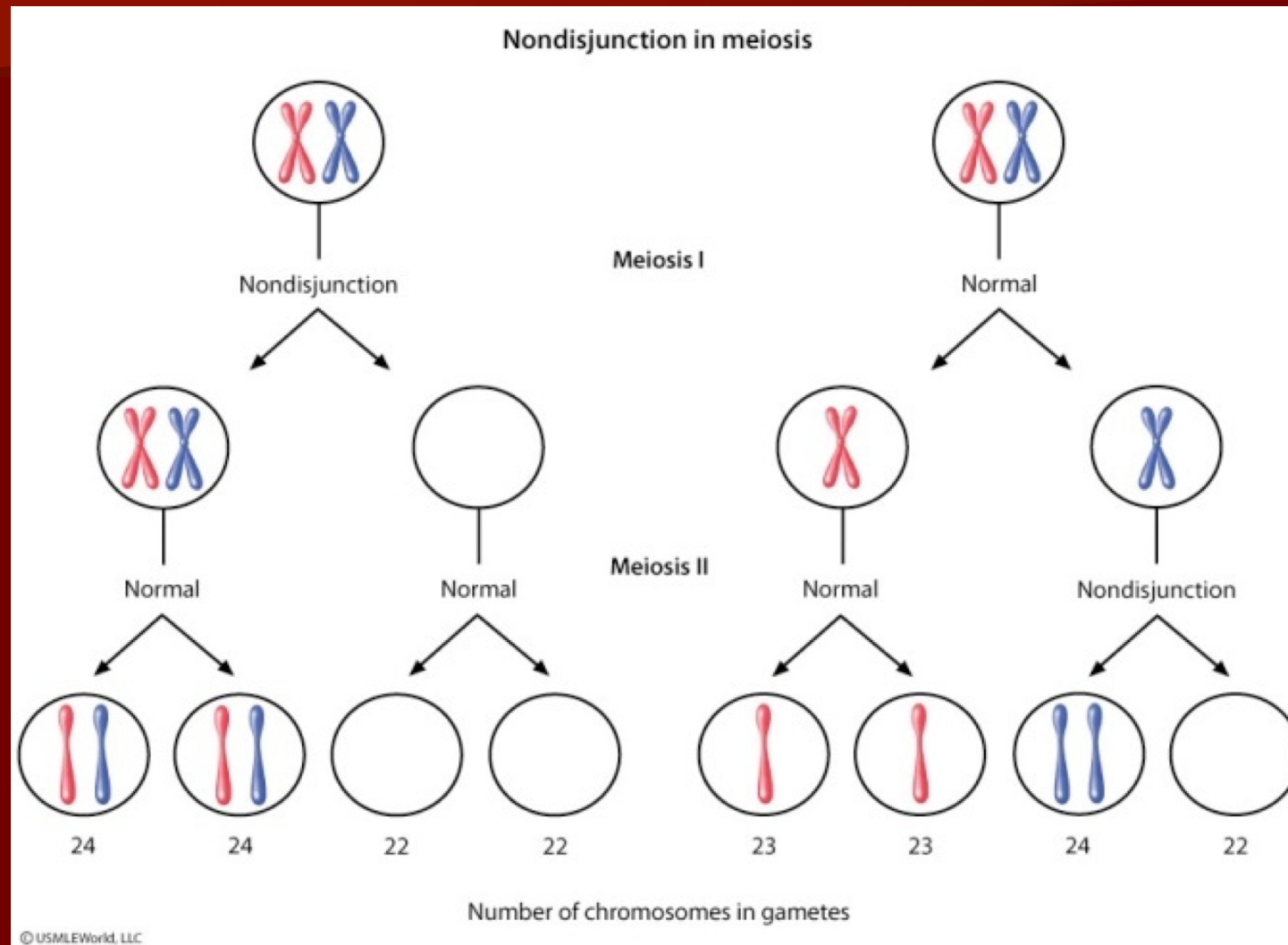
Ch 15.2: Human Genetic Disorders

Essential questions:

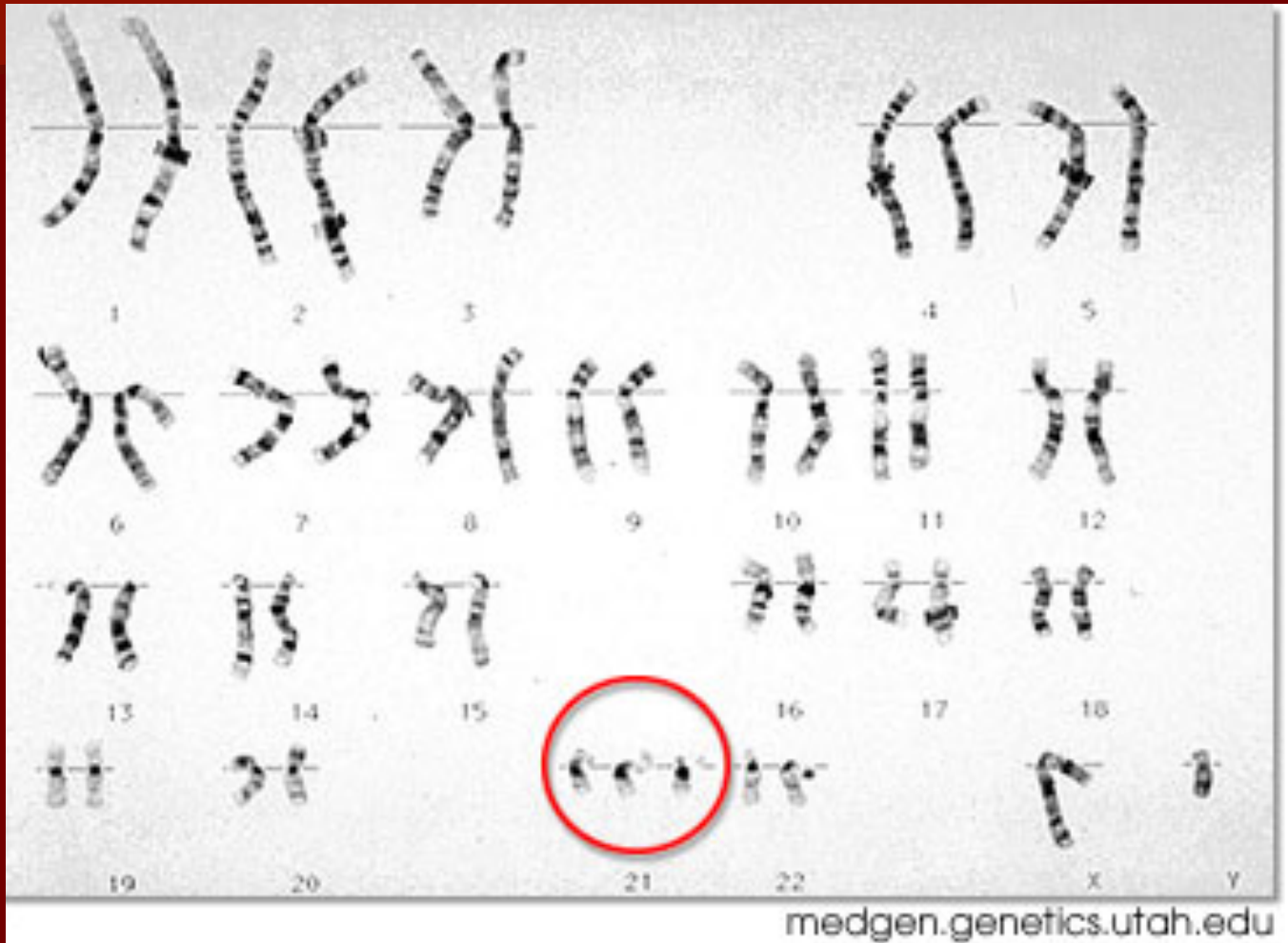
- What are the effects of errors in meiosis?
- How do small changes in DNA affect human traits?

■ Chromosomal Disorders

■ nondisjunction

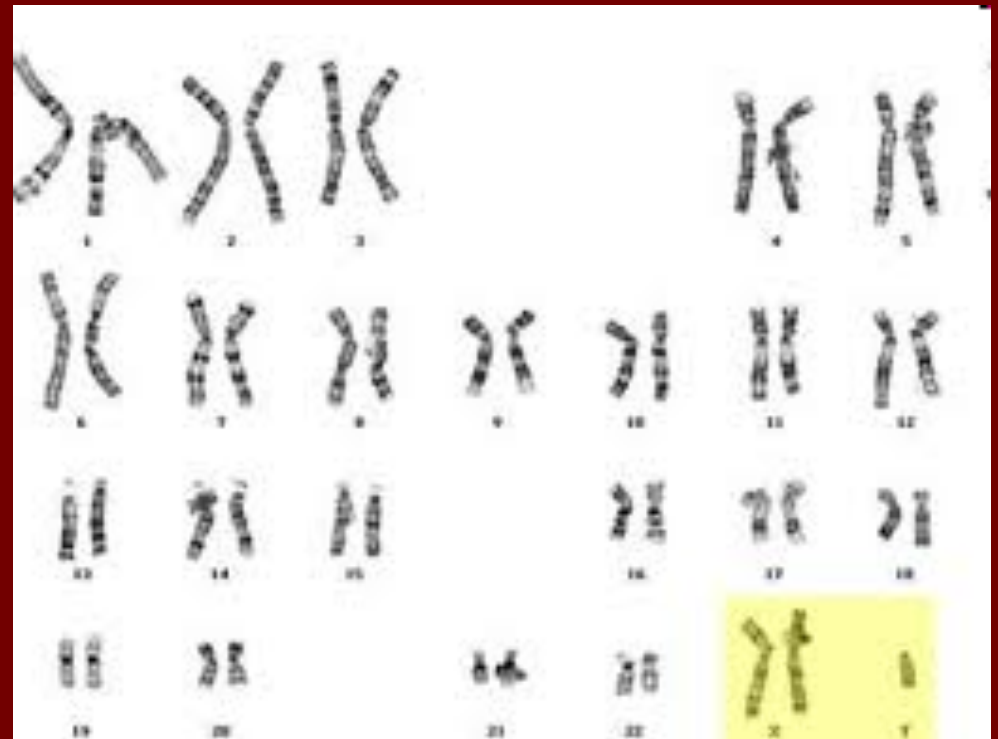
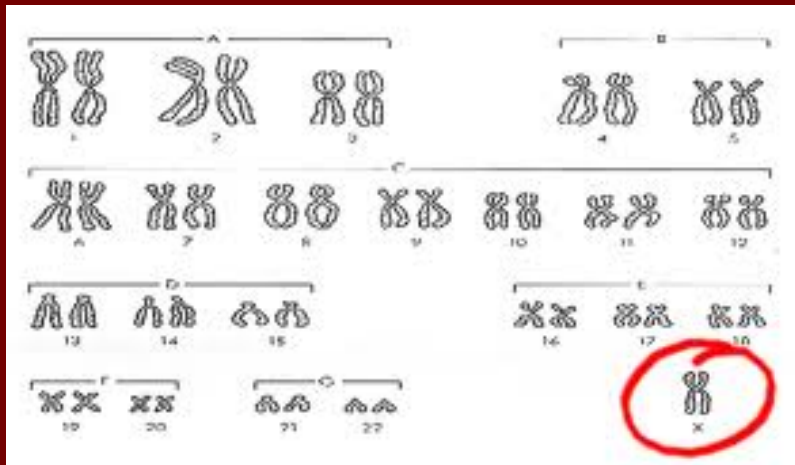


– Down Syndrome



– Sex Chromosome Disorders

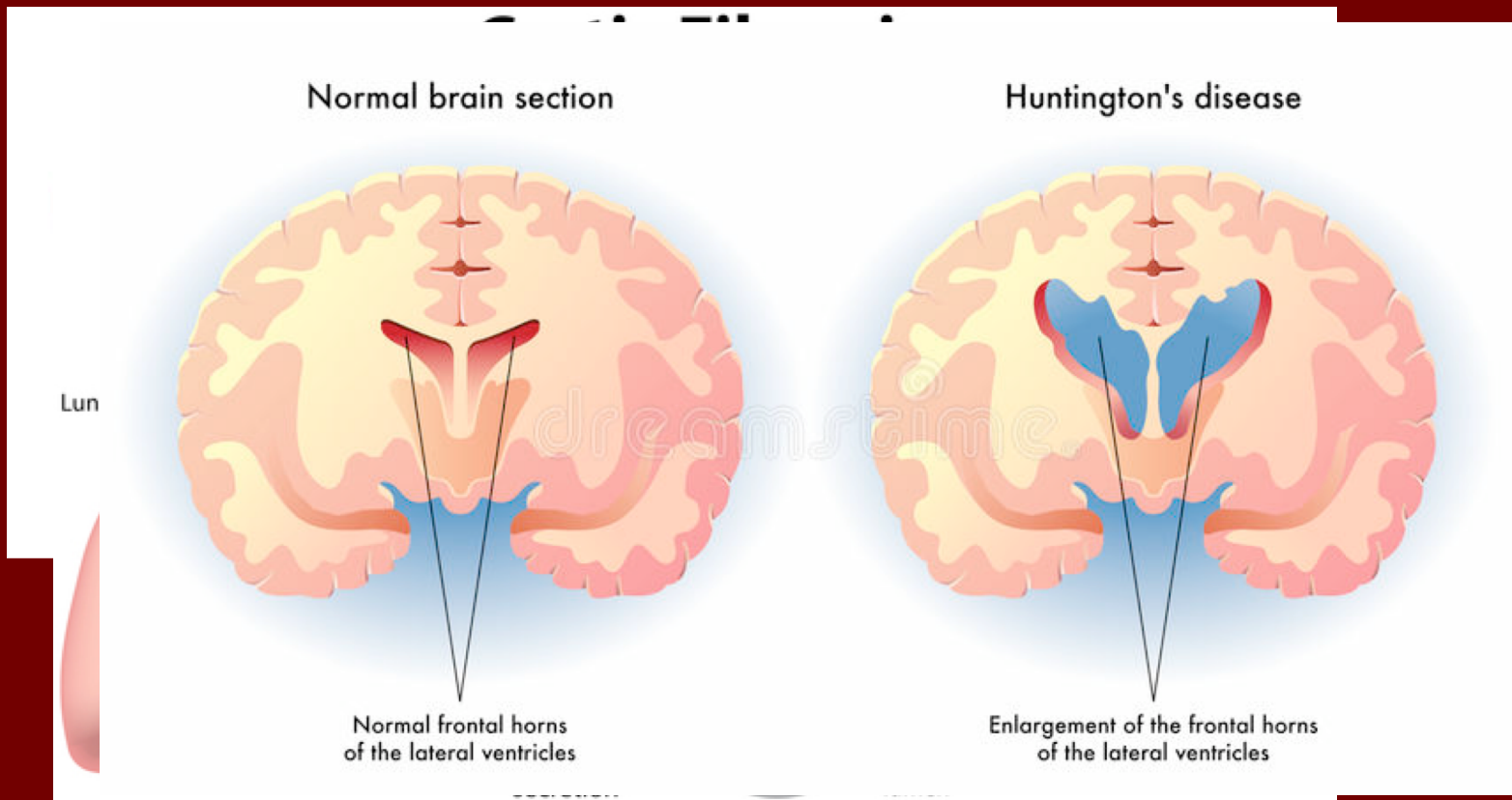
- Turner's syndrome – XO
- Klinefelter's syndrome - XXY



■ From Molecule to Phenotype

– Disorders caused by individual genes

- Sickle cell disease
- Cystic fibrosis
- Huntington's disease



– Genetic advantages

- CF Allele & typhoid
- Sickle cell allele & malaria

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Correlation between Sickle Cell Allele and Malaria

