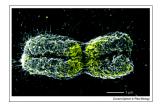
Chromozómy a reprodukcia buniek



- ·Bunky a chromozómy
- ·Mitóza
- ·Meióza
- High resolution scanning immunogold electro micrograph.
- P Generation

 P Generation

 P Generation

 All yellow round seeds
 (17978)

 Melosis

 Fertilization accepts
 (17978)

 All yellow round seeds
 (17978)

 Principle of Segregation

 Principle of Segregation

 Melosis

 Principle of Independent Assortment

 Metaphase

 O Metaphase

 Friffization among the F, plents

 Faceneration

 O Metaphase

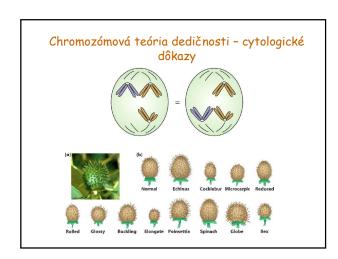
 O Metaphase

 Friffization among the F, plents

 Faceneration

 O Metaphase

 O Met



Chromozómová teória dedičnosti – genetický dôkaz

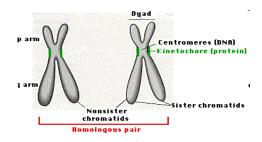
- ▶ Thomas Hunt Morgan
- modelový organizmus Drosophila melanogaster





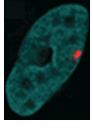
Nobelova cena za fyziológiu a medicínu, 1933, "za jeho objavy týkajúce sa úlohy chromozómov v dedičnosti".

Eukaryotický chromozóm

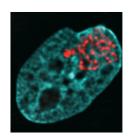


Dve formy chromatínu (na základe farbenia)

- 1. Euchromatín aktívne transkribované regióny, bez repetitívnych sekvencií
- 2. Heterochromatín

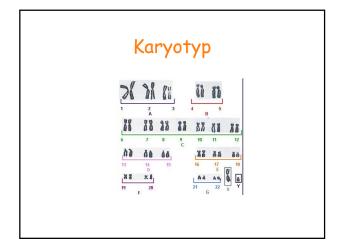


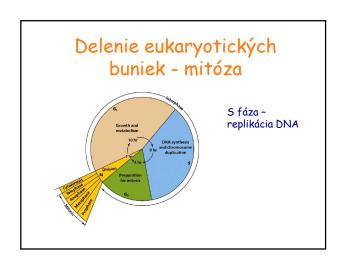


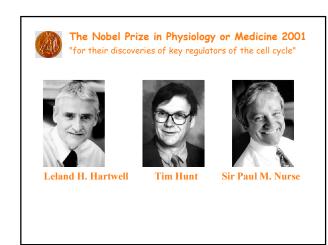


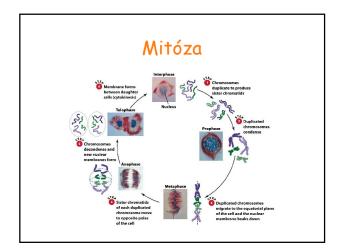
100 Mb DNA v euchromatine

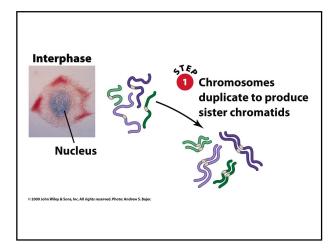
Funkčné oblasti na chromozóme – teloméra, centroméra, satelit		
Metaphase chromosome Centromere Chromatid Schématická a elektrónmikroskoj	pická snímka × chromozómu.	

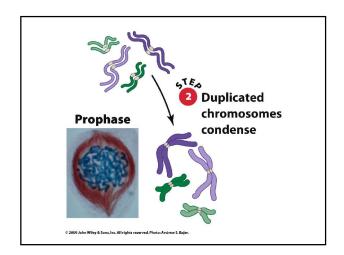


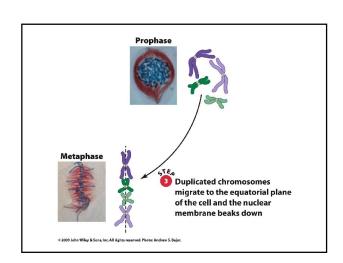


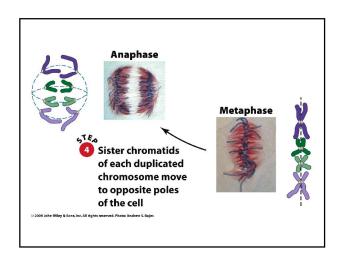


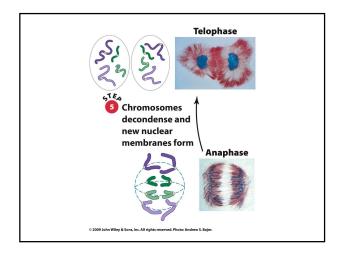


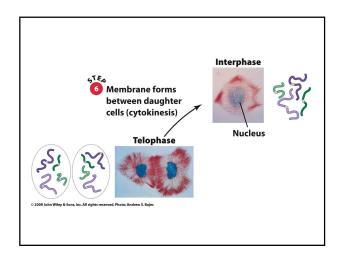


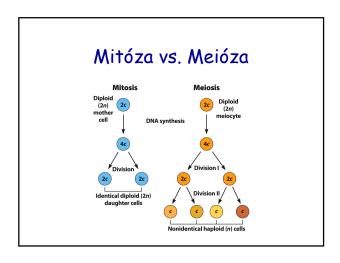


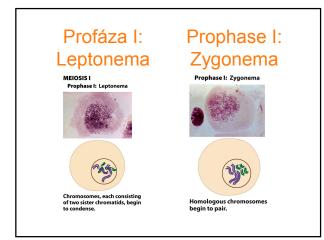


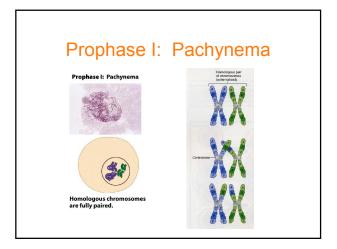


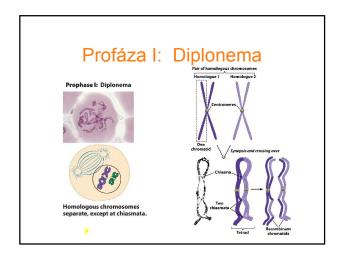






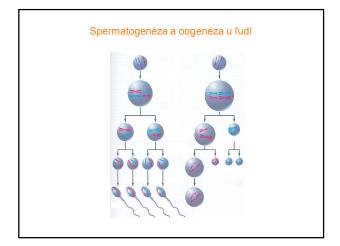






Profáza I: Diakinéza Metafáza I Anafáza I Telofáza I

Metafáza II Profáza II Anafáza II Telofáza II Chromosomes decondense and new nuclei begin to form. Cytokinéza **3 8** The haploid daughter cells are separated by cytoplasmic membrane



Zmeny v počte chromozómov			
Nondisjunkcia			
	Nondisjunction Melosi Nondisjunction Melosi a 1	in II metton in 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	