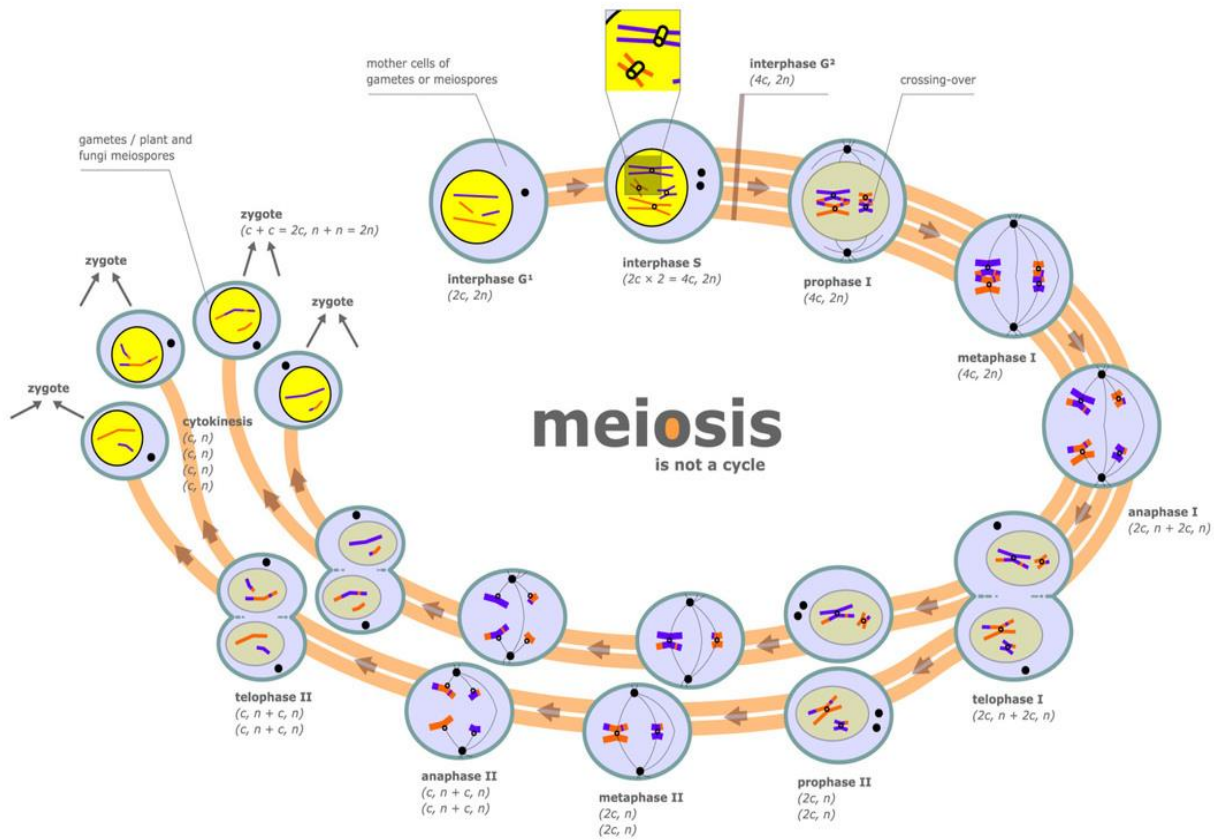


Nondisjunction Notes
 Meiosis Review

Meiosis



Human chromosome counts

22 pairs of _____
 (_____)

1 pair of SEX CHROMOSOMES

- XX = _____
- XY = _____

What is the total chromosome count in diploid cells?

What is the total chromosome count in haploid cells?

Nondisjunction Notes

What if meiosis goes wrong?

Who is affected?

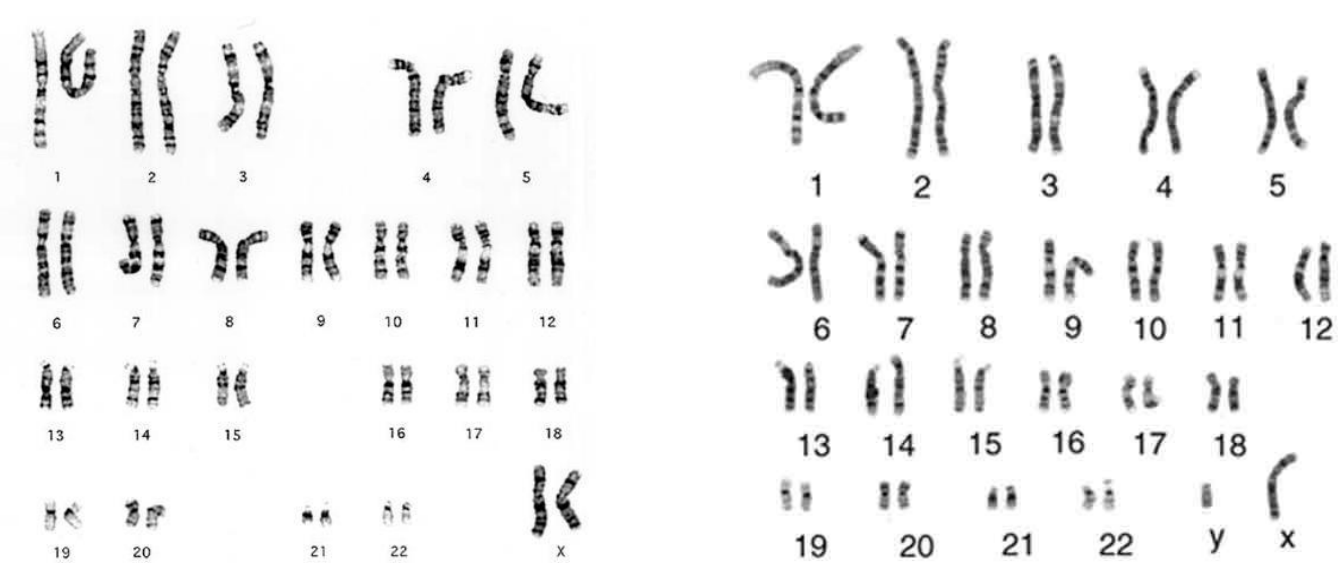
Why?

Nondisjunction

- Failure of _____ pairs to separate properly during meiosis
- _____ chromosomes or sister chromatids
- _____ or sex chromosomes
- Can be diagnosed using a _____

Karyotype

Humans have _____ pairs of autosomes and 1 pair of sex chromosomes



Courtesy of Dr. K. Phelan, Greenwood Genetic Center.
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Aneuploidy

- _____ number of chromosomes within a cell
- Can be _____ or less

Monosomy

- Missing _____ chromosome in a pair
- Turner's syndrome

Trisomy

- _____ copies of one chromosome in a set
- _____, Patau syndrome, _____ syndrome, Edward's syndrome