PETA KONSEP
CONCEPT MAP

GENETIK
GENETICS

Pembahagian Sel *Cell Division*
dikelaskan kepada *classified into*

- **Mitosis** *Mitosis*
  - berlaku dalam *occurs in* → Sel soma *Somatic cells*
- **Meiosis** *Meiosis*
  - berlaku semasa pembentukan *occurs during the formation of* → Gamet *Gametes*

Pewarisan *Inheritance*
melibatkan *involves*

- Gen resesif *Recessive gene*
- Gen dominan *Dominant gene*

diterangkan oleh *explained by*

- Eksperimen Mendel *Mendel Experiment*

Penentuan jantina *Gender Determination*
ditentukan oleh *determined by*

Kromosom seks *Sex chromosomes*

2 jenis *2 types*

X, Y

- Lelaki XY *Male XY*
- Perempuan XX *Female XX*

Mutasi *Mutation*

Mutasi kromosom *Chromosome mutation*

- Sindrom Down *Down syndrome*
- Sindrom Turner *Turner syndrome*
- Sindrom Klinefelter *Klinefelter syndrome*

Mutasi gen *Gene mutation*

- Buta warna *Colour blindness*
- Anemia sel sabit *Sickle cell anaemia*
- Talasemia *Thalassemia*
- Hemofilia *Haemophilia*
- Albinisme *Albinism*

Teknologi Kejuruteraan Genetik *Genetic Engineering Technology*

- Teknologi DNA rekombinan *Recombinant DNA technology*
- Organisma Termodifikasi Genetik (GMO) *Genetically Modified Organisms (GMO)*
- Kebaikan *Advantages*
- Keburukan *Disadvantages*
- Etika dalam teknologi kejuruteraan genetik *Ethics in genetic engineering technology*

Variasi *Variation*

Variasi selanjar *Continuous variation*

- Berat badan *Body weight*
- Ketinggian *Height*

Variasi tak selanjar *Discontinuous variation*

- Kebolehan menggulung lidah *Ability to roll the tongue*
- Cap jari *Fingerprints*
- Cuping telinga *Earlobes*
- Kumpulan darah *Blood group*

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