

Concepts you should know:

- Enhancer
- Promoter
- Coding domain
- DNA sequence conservation
- Stem Cell
- Embryonic Stem cell
- Totipotent
- Pluripotent
- Multipotent
- Oligopotent
- Unipotent
- Chimera
- Nuclear transplantation
- In vitro Fertilization
- Bastocyst
- Whole animal Cloning
- Induced Pluripotent Cells
- Homologous recombination
- Therapeutic cloning
- Eugenics
- Telomeres
- Telomerase
- Large offspring syndrome
- Imprinting
  - Paternal/maternal
- Mutagens
  - Radiation
  - Chemical
- Somatic Mutation
- Germline mutation
- Point mutations
- Translocations
- Inversion
- Deletions
- Amplifications
- Frame shift Mutation
- The six steps leading to full blown cancer
  - Activation of proto-oncogene
  - Loss of tumor suppressors
  - Evading programmed cell death
  - Grow telomeres
  - Get blood supply
  - Gain invasiveness

P53

HPV induced cancers  
Dominant oncogene  
Recessive oncogene  
Tumor Suppressor gene  
Congenital defect  
Syndrome  
Haploinsufficiency  
Dominant gain-of-function  
Dominant negative mutation  
Endocrine disruptors  
Co-suppression  
Anti sense RNA  
Components of a virus  
Lytic cycle  
Lysogenic cycle  
Provirus  
Insertional mutagenesis  
RNA virus  
DNA virus