

Student Learning Objectives

By the end of this class you should understand the following:

- The steps required for a cell to become cancerous
- The link between genes, mutation and cancer
- The models of retinoblastoma, breast cancer, and colon cancer
- Translocation events that create a risk for cancer
- Treatments for cancer including new ones currently under study

Support videos:

- Khan Academy
 - <http://www.youtube.com/watch?v=RZhL7LDPk8w>

Vocabulary:

- Tumor
- Benign
- Malignant
- Angiogenesis
- Metastasis
 - Metastasize (verb)
- Loss of heterozygosity
- Apoptosis
- Tumor-suppressing genes
- Proto-oncogenes
- Retinoblastoma
- p53 gene
- RB1 gene
- ras gene
- BRCA1 & BRCA2 genes
- Philadelphia chromosome
- Hybrid gene
- Chemotherapy
- Radiation therapy
- Targeted therapy