
Reading: Chapter 16

Concepts: What is the difference between benign and malignant tumors? What changes in protein expression would you expect to see in malignant tumors vs benign tumors? What are the phenotypic changes that we see in cancer cells? What is the multi-hit model of cancer? Do all cells need the same number of mutations to become malignant? In cancer cells, which class of growth control genes would tend to have dominant mutations, which class would tend to have loss of function mutations? How does loss of heterozygosity occur and why is it important in cancer?

Key Figures: 16.14, 16.19

Vocabulary: Oncogene Proto-oncogene Tumor suppressor genes LOH

Proteins: APC (Adenomatous Polyposis Coli) NOT Anaphase Promoting Complex Rb (Retinoblastoma)