* The first virus linked to a human tumor → EBV (HHV 4)
* The first bacteria linked to human tumor → H. pylori

* RB ┌→ active → hypo phosphorylated.
     └→ in active → hyper phosphorylated.

* most common oncogen → RAS
* most common TSG → TP53
* most most common in all → TP53 very imp

* The three leading causes of cancer death: Carcinomas of:

① lung   ② colon   ③ breast

* mutation in TGF-β ┌→ 100% pancreatic cancer
                    └→ 83% colon cancer

* loss of APC → ① desmoid tumor (fibromatosis)
                ② colonic adenocarcinoma

* IDH mutation found in: ① acute myeloid leukemias
        ② gliomas   ③ sarcomas

* acute Myeloid Leukemia ⇒ IDH mutations
* Chronic Myeloid Leukemia ⇒ translocation (9, 22)
                              (ABL- BCR)
* Breast Cancer types:
① invasive ductal carcinoma → most common
② invasive lobular carcinoma → 2nd most common