

uncontrolled cell %

Oncogenesis (cancer development)

proto oncogenes

tumor suppressor gene

gas pedal

brakes

tell cells to %

stop uncontrolled cell %



mutations (viruses) ^{mutagen}



virus bring their own

→ Oncogene (cancer gene)



uncontrolled cell %

← stop

functional tumor suppressor gene

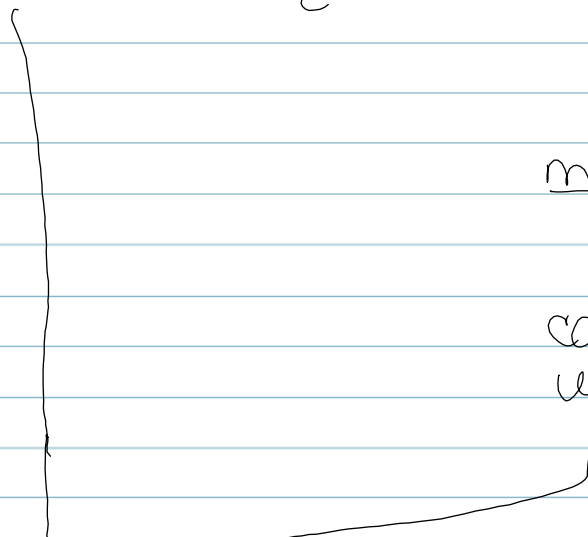
↓



mutation (virus) ^{mutagen}



cannot stop uncontrolled cell %



cancer development
15% human cancers

viruses