

Francis Peyton Rous 1879-1970



Nobel 1966

Infected chickens from cell-free fluid with cancer: Rous Sarcoma virus, RSV Although all cancers originate from viruses this is a landmark in **molecular genetics**. Oncogene: a factor causing uncontrollable proliferation of cells. Retrovirus: reverse transcriptase RNA->DNA Src gene: cause morphological changes in cells, encodes a kinase – cell mechanism of signal transduction. RNA Tertiary structure preventing its degradation. Virus genome – encode coat proteins, and protein that help virus penetration into cells.

Electron microscope RSV image



