



MOOC Viruses and Human Cancers

A FREE ONLINE COURSE OF THE INSTITUT PASTEUR

About 20% of human cancers are related to a viral infection or to the presence of viral genes in the organism. The mechanisms of virus-induced oncogenesis are multiple: encoding of proteins that reprograms host cellular signaling pathways controlling cell death, proliferation, differentiation, genomic integrity, recognition by the immune system, induction of inflammation and immunological alterations by viral infection. This MOOC is a full immersion into the relationship between viruses and cancers, focusing on the different mechanisms of carcinogenesis, the host immune response and progress in preventing tumors.

AT THE END END OF THIS COURSE, YOU WILL BE ABLE TO:

- Describe the biology and the replicative cycle of viruses associated with cancers.
- Explain the mechanism of tumorigenesis induced by these viruses.
- Define the role of the immune system in controlling these viruses and the induced tumors.
- Discuss new advances in terms of vaccination and anti-tumor therapies.



Starts May 16th, 2023



Free registration



Certificate available: 150€



Total estimated time: 27 h



Live session with experts



English with subtitles in English and French

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