

Free online courses on “HIV Science” and “Viruses and Human Cancers” in English



**MOOC
HIV Science**

**A NEW FREE ONLINE COURSE
OF THE INSTITUT PASTEUR**

HIV infection remains an outstanding global health issue despite the dramatic progress made over the past 35 years in developing and giving access to prevention and treatment tools. There are still 2 million new HIV infections and 1 million HIV-related deaths every year. Half of the 37 million people living with HIV do not have access to life-saving antiretroviral treatments. Although these molecules are extremely efficient in blocking HIV replication, they have to be maintained for life. More HIV science is thus essential to develop a vaccine and a cure against HIV infection and one day live in an AIDS-free world.

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This MOOC is an immersion into HIV science: from the virus biological origin and its identification to the perspectives of eradication. You will learn about the status of the HIV epidemic and diversity in the world, the complex interactions between the virus and the host cell, and how HIV evades the immune system. The course will also describe exceptional individuals who control the infection and animal models of protection. Finally, it will address research questions on HIV clinical management and new treatment and prevention tools.

The MOOC is open to everybody, although we recommend a good scientific background (such as a bachelor of science).

-  Starts on November 2, 2018
-  FREE
-  Certificates available
-  English with French and English subtitles
-  Estimated effort: 2h30/week
-  Forum to exchange opinions, etc.

6
WEEKS

28
SPEAKERS

32
VIDEOS

200
QUESTIONS

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MOOC Viruses and Human Cancers

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About 20% of human cancers are directly or indirectly related to a viral infection or to the presence of viral genes in the organism. This rate is higher in low- and middle-income countries. The mechanisms of virus-induced oncogenesis are multiple: encoding of proteins by the intracellular virus that reprograms host cellular signaling pathways controlling cell death, proliferation, differentiation, genomic integrity, and recognition by the immune system, and also induction of inflammation and immunological alterations by viral infection.

This MOOC is a full immersion into relationship between viruses and cancers. It describes the mechanisms of cancer induction by viral infection at the cellular and at the tissue levels. Four chapters of the MOOC are dedicated to different viral species/families/groups most frequently associated with cancers in humans: retroviruses, papillomaviruses, merkel cell polyoma virus, hepatitis viruses, Epstein-Barr virus and human herpesvirus-8 (HHV8). Epidemiology of viral infection and associated cancers are explained. A last chapter is devoted to innovative prevention measures which might help to decrease the high rate of virus-induced human cancers worldwide.

-  Starts on January 7, 2019
-  FREE
-  Certificates available
-  English with French and English subtitles
-  Estimated effort: 2h30/week
-  Forum to exchange opinions, etc.


7 WEEKS **27** SPEAKERS **29** VIDEOS **196** QUESTIONS


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