



Title of the course

Viruses and Human Cancers

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Summary of the course

Considerable worldwide efforts are being done during the last two decades to improve our understanding of the molecular biology of viruses and the mechanisms by which they cause disease, notably their link with carcinogenesis, which continue to be a leading cause of human death. In parallel, our molecular understanding of cancer biology has made substantial progress. During recent years, it became evident that inflammation is a major driving force in tumors development since chronic virus infection and carcinogenesis are closely correlated.

As obligatory intracellular parasites, viruses encode proteins that reprogram host cellular signaling pathways that control proliferation, differentiation, cell death, genomic integrity, and recognition by the immune system. Development of treatment and prevention strategies critically depends on the double understanding of the mechanism of cell tumorigenesis and the way they are influenced by viruses.

We will discuss during this course, how viruses can act at different stages in the complex multistep process of carcinogenesis. Early events include their involvement in mutagenic events associated with tumor initiation such as viral integration and insertional mutagenesis as



well as viral promotion of DNA damage. Also involved in tumor progression is the dysregulation of cellular processes by viral proteins.

This course is located at the intersection between virology, immunology and cancer. The aim of the course is to educate graduates and post-graduates with understanding and expertise in virology, with a particular focus on viruses and human cancers. Mechanisms by which viruses escape from the immune system will be also discussed. This specific theoretical knowledge will provide students with the critical judgement and skills to pursue a career in virology, immunology and cancer. The focus of this course will be to strengthen the knowledge and competence of students in this field.

The program has a significant theoretical teaching component to ensure that the students gain maximal exposure to a wide range of clinically relevant viruses associated with human cancers. The frame-work of the course (7 days) will not allow the opportunity to organize practical work. However, to ensure interactivity, students in small groups will prepare a bibliographical analysis under the guidance of a tutor and will present their work to the whole class. It will be a great opportunity to allow students to discuss with experts, ask questions, and participate in a global exchange, paving the way for future collaborations.

Practical information

Location

Institut Pasteur of Rome
Viale Regina Elena 291, 00161 Roma, Italia

Sapienza University
Piazzale Aldo Moro, 5, 00185 Roma, Italie

Dates of the course

08 July to 13 July 2019

Language

English

Lecturers

Guido Antonelli	Institut Pasteur,Rome
Vincenzo Barnaba	Institut Pasteur,Rome
Alberto Faggioni	Institut Pasteur,Rome
Dominique Franco	Institut Pasteur,Paris
John Hiscott	Institut Pasteur,Rome
Renaud Mahieux	ENS, Lyon
Anna Teresa Palamara	Institut Pasteur,Rome
Angela Santoni	Institut Pasteur,Rome
Rodolphe Suspène	Institut Pasteur,Paris
Mara Torrisi	Institut Pasteur,Rome
Jean-Pierre Vartanian	Institut Pasteur,Paris
Aldo Venuti	Institut Pasteur,Rome



Attendees

30

Duration

7 days

Contact us

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Application deadline

15 May 2019

On line registration

Documents available to download

WEB diffusion template, poster, program, application form

The call is open to scientific and medical students, Master, PhD, MD and Postdoctoral researchers.

The course will finance accommodation with breakfast, lunches and coffee breaks.

The flight ticket and dinners will be at your own expense.

The committee of the course will evaluate applications