



# E-LEARNING / MOOC

**In light of the increasing role of the digital technology in education, the Institut Pasteur is actively involved in the development of online education, and in particular in the production of MOOCs (Massive Open Online Courses).**

The Institut Pasteur wishes to increase the audience of its courses and to give access to high-level scientific online courses to a large audience, throughout the world. To do so, the Institut Pasteur is involved in the development of Massive Open Online courses on various scientific topics. Our

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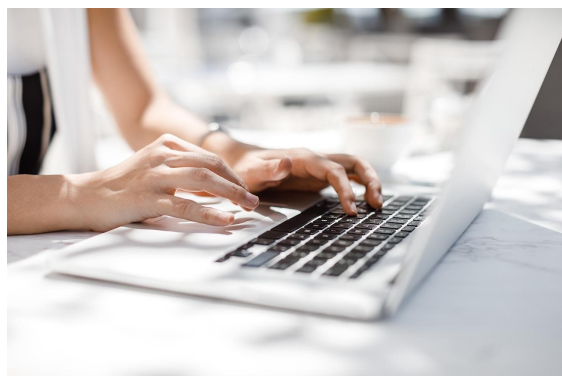
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The Institut Pasteur has been creating MOOCs since 2014 and wishes to increase and diversify its online education offer. MOOCs of the Institut Pasteur are available either on the [French platform FUN](#) or on the American platform Coursera (soon available).

Our MOOCs have a very wide and diverse audience, with learners coming from as many as 150 different countries.



## The Institut Pasteur Online Diploma of Infectious Diseases (DNM<sub>2</sub>IP)

Institut Pasteur creates an Online Diploma of Infectious Diseases (DNM<sub>2</sub>IP) based on MOOCs.

The goal of this Institut Pasteur Diploma is to enable students, medical doctors, health workers, researchers, and staff of state agencies or NGOs to acquire skills in the field of infectious diseases. The diploma is given to students who have successfully passed the final examination of each of 5 MOOCs of the DNM<sub>2</sub>IP. MOOCs are rebroadcast every 2 years, each for a period of 6 weeks.

## The Institut Pasteur has created the following Moocs:

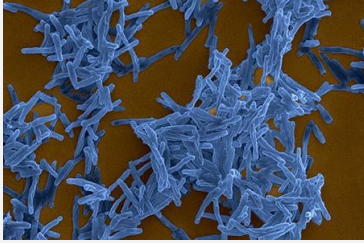
### Currently online:

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The [MOOC Tuberculosis](#) directed par Howard Takiff, starts on November 23 2020, and is open until February 24, 2021.



The [Mooc Clinical Trials in Infectious and Tropical Diseases](#), open until November 16th 2020, directed by Muriel VRAY (Institut Pasteur).



The [MOOC Malaria](#), directed par Chetan Chitnis, is open until December 15<sup>th</sup>, 2020.

## Archived MOOCs:



**Viral Hepatitis MOOC**, *available until June 27, 2020* directed by Françoise Lunel-Fabiani (Université d'Angers) and Stanilas Pol (Institut Pasteur).



**Advances in Stem Cell Biology MOOC**, *available until June 22, 2020* directed by Shahragim Tajbakhsh (vStem Cells and Development team at Institut Pasteur).












**Vaccinology MOOC**, *available until June 22, 2020* codirected by Behazine Combadières (Skin, Immunity and Vaccination” at the Center for Immunology and Microbial Infections (CIMI-Paris, France).and Armelle Phalipon (Molecular Microbial Pathogenesis Unit at Institut Pasteur)

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	<p><a href="#">Retrovirology Unit</a>) and Hilde Angermeier (<a href="#">European Public Health Microbiology training program (EUPHEM) of ECDC / Institut Pasteur</a>).</p>
	<p><b>HIV Science MOOC</b>, available until <a href="#">April 30, 2020</a> codirected by Michaela Müller-Trutwin (HIV, Inflammation and Persistence Unit) and Asier Saez-Ciron (HIV, Inflammation and Persistence Unit).</p>
	<p><b>Innate Immunity MOOC</b>, available until <a href="#">April 30, 2020</a> codirected by Jean-Marc Cavaillon et Daniel Scott-Algara, (unité Cytokines et inflammation),</p>
	<p><b>Human Population and Evolutionary Genetics MOOC</b>, codirected by Lluís Quintana-Muci and Etienne Patin (Human Evolutionary Genetics Unit).</p>
	<p><b>Epigenetics MOOC</b>, directed by Germano (Cecere Mechanisms of epigenetic inheritance Unit)</p>
	<p><b>Viruses and Human cancers MOOC</b>, directed by Jean-Pierre Vartanian, (Molecular retrovirology Unit - Institut Pasteur)</p>
	<p><b>Advances in Stem cell biology MOOC</b>, codirected by Shahragim Tajbakhsh (Stem cells and development lab - Institut Pasteur) and François Schweisguth (unité de Génétique de développement de la drosophile)</p>
	<p><b>Medical entomology II MOOC</b>, co-directed by Anna-Bella Failloux (Arboviruses and Insect Vectors unit - Institut Pasteur) and Vincent Robert (IRD)</p>
	<p><b>Resistance to antibacterial agents MOOC</b>, co-directed by Patrick Trieu-Cuot (Biology of Gram-Positive Pathogens Unit), Didier Mazel (Bacterial Genome Plasticity unit) and Béatrice Berçot (Assistance Publique – Hôpitaux de Paris – Paris Diderot University) <a href="#">Concepts and Methods in Epidemiology MOOC</a>, co-directed by Arnaud Fontanet (Unit of Emerging Disease Epidemiology). The third edition of this MOOC occurred in April 2016.</p>
	<p>le <b>Mooc Concepts et méthodes en épidémiologie</b>, réalisé par Arnaud Fontanet (Unité d'Epidémiologie des Maladies Emergentes), déjà diffusé à trois</p>

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	vaccination). This MOOC, based on the <a href="#">Pasteur Vaccinology course</a> .
	<b>From neuron to behavior MOOC</b> , co-directed by Pierre-Marie Lledo (Perception and Memory Unit), launched for the first time during spring 2016.
	<b>Medical entomology MOOC</b> , led by Anna-Bella Failloux (Unit of Arbovirus and insect vectors) and Robert Vincent (IRD), available online for the first time in February 2017
	<b>Diagnosis and prognosis biomarkers in global health MOOC</b> co-directed by Stanislas Pol (Center of Translational Science) and Marie-Astrid Vernet, available online for the first time in May 2017
	<b>Microbes &amp; Brain MOOC</b> , co-directed by Ivo Boneca (Biology and Genetics of Bacterial Cell Wall Unit) and Grégoire Chevalier (Microenvironment and Immunity unit), available online for the first time in October 2017
	<b>Tuberculosis MOOC</b> , co-directed by Howard Takiff, Brigitte Gicquel and Catherine-Pierre Audigier (all in the Mycobacterial Genetics Unit), available online from January 2018
	<b>Malaria MOOC</b> , directed by Chetan Chitnis, (Malaria Biology and vaccines Unit)
	<b>Advances in Stem cell biology MOOC</b> , codirected by Shahragim Tajbakhsh (Stem cells and development lab - Institut Pasteur) and François Schweisguth (unité de Génétique de développement de la drosophile) <i>now available</i>

- **Human Population and Evolutionary Genetics MOOC**, *available until December 17, 2019* codirected by Lluís Quintana-Muci and Etienne Patin (Human Evolutionary Genetics Unit).
- **Epigenetics MOOC**, available until *November 8, 2019* directed by Germano (Cecere Mechanisms of epigenetic inheritance Unit)
- **HIV Science MOOC**, *available until February 29, 2020* codirected by Michaela Müller-Trutwin (HIV, Inflammation and Persistence Unit) and Asier Saez-Ciron (HIV, Inflammation and Persistence Unit).
- **Advances in Stem cell biology MOOC**. codirected by Shahragim Tajbakhsh (Stem cells and

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## Archived MOOCs:

- **Viruses and Human cancers MOOC**, directed by Jean-Pierre Vartanian, (Molecular retrovirology Unit - Institut Pasteur)
- **Medical entomology II MOOC**, co-directed by Anna-Bella Failloux (Arboviruses and Insect Vectors unit - Institut Pasteur) and Vincent Robert (IRD)
- **Resistance to antibacterial agents MOOC**, co-directed by Patrick Trieu-Cuot (Biology of Gram-Positive Pathogens Unit), Didier Mazel (Bacterial Genome Plasticity unit) and Béatrice Berçot (Assistance Publique – Hôpitaux de Paris – Paris Diderot University) **Concepts and Methods in Epidemiology MOOC**, co-directed by Arnaud Fontanet (Unit of Emerging Disease Epidemiology). The third edition of this MOOC occurred in April 2016
- **Vaccinology MOOC**, co-directed by Armelle Phalipon (unit of Molecular microbial pathogenesis) and Frédéric Tangy (unit of Viral genomics and vaccination). This MOOC, based on the **Pasteur Vaccinology course**,
- **From neuron to behavior MOOC**, co-directed by Pierre-Marie Lledo (Perception and Memory Unit), launched for the first time during spring 2016.
- **Medical entomology MOOC**, led by Anna-Bella Failloux (Unit of Arbovirus and insect vectors) and Robert Vincent (IRD), available online for the first time in February 2017
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- **Innate Immunity MOOC**, co-directed by Jean-Marc Cavaillon and Daniel Scott-Algara (Cytokines and Inflammation Unit), available online for the first time in February 2017.
- **Microbes & Brain MOOC**, co-directed by Ivo Boneca (Biology and Genetics of Bacterial Cell Wall Unit) and Grégoire Chevalier (Microenvironment and Immunity unit), available online for the first time in October 2017
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- **Malaria MOOC**, directed by Chetan Chitnis, (Malaria Biology and vaccines Unit)

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## The Institut Pasteur is also involved in two MOOCs created by the University of Geneva:

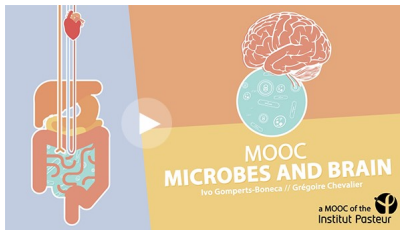
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- **In the footsteps of Zika... approaching the unknown MOOC**, available on the American platform Coursera since mid-2016.
- **Global Health at the Human-Animal-Ecosystem Interface MOOC**,
- which features interviews conducted on the campus of the Institut Pasteur and sequences shot in the field with teams from the Institut Pasteur Network (Hong Kong, Phnom Penh, Tunis). This MOOC is available “on-demand” on Coursera since April 2017.



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