

# MOOC Innate Immunity

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

After the discovery of phagocytosis, more than 135 years ago by Elie Metchnikoff, innate immunity underwent a rebirth following the new definition of the immune system by Charles Janeway and Polly Matzinger and the discovery of the “pattern recognition receptors” awarded by the Nobel Prize in 2011. The understanding of the mechanisms that control infectious insults have been deciphered these last years, and a precise role of each of the players is now better understood. Most recently, a trained innate immune system has been described and contributes to better innate and adaptive responses.

This MOOC is aimed to offer the most up-dated information on the cellular and molecular players of innate immunity, and on the mechanisms that lead to the elimination of the pathogens, of either bacterial, viral, fungal or parasitic origin. Accordingly, strategies of the pathogens against the innate immune system are described. The fact that innate immunity is under influence of the genetic evolution, and the microbiota is addressed as well as its crosstalk with the nervous system. Its links with adaptive immunity is also presented.



Starts on November 4, 2019



FREE



Certificates available



English with French subtitles



Estimated effort: 2h30/week



Forum to exchange opinions,  
etc.

**6**  
WEEKS

**27**  
SPEAKERS

**32**  
VIDEOS

**96**  
QUESTIONS

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