

Màj 16/04/2020

UE 2.2. Current concepts in Immunity, inflammation, infection**12 ECTS****Parcours Immunity – Inflammation – Infection****ST7: Current and future vaccines : from basic research to its application in public health**Contacts : nathalie.mielcarek@inserm.fr christophe.carnoy@univ-lille.fr

In the first part, the immune responses induced by the different types of vaccines will be discussed. The composition, role and mechanism of action of adjuvants in inactivated or subunit vaccines will then be discussed. The second part will be devoted to new vaccine strategies in particular against two infectious diseases, whooping-cough or pertussis currently in re-emergence, and tuberculosis, still particularly deadly worldwide.

Duration: 1 day**Program**

The prevention of infectious diseases through vaccination is a major public health issue. The objective of this thematic day is to present the different vaccine approaches currently used and the innovative strategies that are being developed. In the first part, after defining the principle of vaccination, the immune responses induced by the different types of vaccines will be discussed. The composition, role and mechanism of action of adjuvants in inactivated or subunit vaccines will then be approached with particular interest for new types of adjuvants. The second part will be devoted to the new vaccine strategies developed against two infectious diseases, pertussis, currently in re-emergence, and tuberculosis, a disease still particularly deadly throughout the world. During this day, a national or international expert will be invited to present innovations in the field of vaccinology.

This thematic seminar is intended for students in the medical, pharmaceutical and scientific fields, interested in infectious diseases, the immune mechanisms induced by vaccination and innovations in the field of vaccine prevention.

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