

LECTURE SERIES & WORKSHOPS

INFECTION & IMMUNITY

15

APR. 2016

Friday



LECTURE

Lycée Technique
d'Esch/Alzette
Salle de Projection *

1.00 - 2.30 pm

WORKSHOP *

House of BioHealth
Room Françoise
Barré-Sinoussi

3.00 - 4.30 pm

* Registration is mandatory
by sending an email to
florence.henry@lih.lu



SPEAKER

Prof Cezmi A. AKDIS
PhD

Director, Swiss Institute of Allergy
and Asthma Research (SIAF), Davos,
University of Zurich, Switzerland
Directorium Member, Christine
Kühne - Center for Allergy Research
and Education (CK-CARE), Davos,
Switzerland

HOST:

**Department of Infection
and Immunity**

RESPONSIBLE LIH SCIENTIST:

Prof. Markus Ollert
(markus.ollert@lih.lu)

NOVEL CONCEPTS IN TISSUE INJURY, REMODELING, BARRIER AND CHRONICITY IN ALLERGIC INFLAMMATION

ABSTRACT

The immune system is a highly interactive network, that makes its decisions on the basis of input from tissues, infections, normal flora bacteria and environmental agents. General rules of immunity-versus-tolerance apply to allergen-specific immune responses and these rules for regulators and effectors have probably been developed in a co-evolutionary manner with helminths, mites, insect venoms, foods and other allergens.

This lecture will discuss the multiple proposed roles of tissues in immune regulation and chronicity in allergic inflammation. It will focus on group 2 innate lymphoid cells (ILC2s) localised

on mucosal surfaces which are thought to play an essential role in regulation of tissue responses as well as in asthma development independently of the adaptive immune system.

Bronchial epithelial leakiness has been shown to be involved in asthma, however the role of ILC2 in the regulation of bronchial epithelial tight junctions and barrier function was not known. The speaker will present recent in vitro and in vivo data demonstrating for the first time that ILC2s are able to disrupt the bronchial epithelial tight junction barrier as a novel mechanism in asthma pathogenesis.

* Opposite Luxembourg Institute of Health, House of BioHealth,
29, rue Henri Koch, L-4354 Esch/Alzette