

LECTURE SERIES 2017/2018

# BIOMEDICAL RESEARCH

From discovery to patients



LUXEMBOURG  
INSTITUTE  
OF HEALTH  
RESEARCH DEDICATED TO LIFE

# 21

JUNE 2017

Wednesday

## LECTURE

HOUSE OF BIOHEALTH

CONFERENCE ROOM

11.00 - 12.30 pm



## New innovation models for biopharmaceutical innovation: Preparing the next generation of healthcare professionals

### ABSTRACT

Healthcare is at the verge of a revolution. We are entering the era of "precision medicine" in which prevention and treatment of diseases will be tailored according to the characteristics of each patient and the in-depth characterization of the pathologic processes underlying human disorders. This novel approach of medical care will include, among others, powerful computational analyses of large sets of biological and clinical data collected via electronic health records and mobile health technologies. Indeed, risk to develop specific disorders, and chance to respond to particular preventive or therapeutic measures, will be determined by individual profiles emerging from the integrated collection of clinical, genetic, environmental and lifestyle data. This new knowledge will result in novel diagnostic and therapeutic tools such as genomics-based tests, interventional imaging techniques, innovative medical

devices, and cell-based or gene-based therapies, in addition to more efficient and safer (bio)pharmaceuticals.

In this context, medicine will converge more and more with other life sciences, physical sciences and engineering sciences. Furthermore, new approaches for product development, regulation, market access (pricing/reimbursement) and patient access and adoption will be needed.

In this presentation, we will present new models of collaborative innovation based on collective intelligence and discuss how to prepare a new generation of healthcare professionals to move precision medicine forward.

### SPEAKER

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