

# Curriculum Vitae: Bruno Lemaitre

## Current work address:

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## EDUCATION

- 1997:** « Habilitation à diriger des recherches »  
Université Louis Pasteur, Strasbourg, France
- 1992:** Ph.D (in Genetics).  
Title: Regulation of P element transposition in *Drosophila*.  
Université Pierre et Marie Curie, Paris, France
- 1985-1988:** Student at Ecole Normale Supérieure, Paris, France

## RESEARCH EXPERIENCES

**January 2019- present:** Director of the Global Health Institute, EPFL.

**January 2012- 2016:** Director of the EPFL doctoral program EDMS 'Molecular life science'

**July 2007- present:**

Global Health Institute, EPFL, Lausanne, Switzerland

Full Professor: Study of host/pathogen interactions and innate immunity in *Drosophila*

**May 1998 - June 2007:**

Centre de Génétique Moléculaire, CNRS, Gif-sur Yvette, France.

Group leader: Study of host/pathogen interactions and innate immunity in *Drosophila*

Chairman of the Department "Development" (January 2003-January 2007)

**November 1999 – January 2000:**

Celera genomics, Rockville, Washington DC, USA

Annotation of the *Drosophila* genome (immunity genes)

**December 1992-April 1998:**

UPR9022, IBMC, Strasbourg, France.

Research associate (chargé de recherche, CNRS) with Dr. Jules Hoffmann: Genetic dissection of the immune response in *Drosophila*.

## October 1989-October 1992:

Department of molecular evolution, Institut Jacques Monod, Paris  
Graduate student with Dr. Dario Coen: Regulation of P element transposition in *Drosophila*.

## AWARDS

- 2000 : Young Investigator Program (EMBO)
- 2001 : Price Noury, Thorlet, Lazare from the french Academy of Sciences
- 2002 : First Price of the Schlumberger Foundation
- 2003: William B. Coley Award for distinguished research in basic and tumor immunology (shared with J.A. Hoffmann, R. Medzhitov et C. Janeway)
- 2006 : Price Lucien Tartois from the Fondation pour la Recherche Médicale
- 2007: Nominated EMBO member
- 2008: Obtention of an ERC advanced Grant
- 2010: Price "Liliane Bettencourt" for life science

Of note, one of my first-author papers revealing a role of the Toll pathway in the *Drosophila* antifungal defense (Lemaitre et al Cell 1996) has been considered as a landmark paper in the discovery of TLR receptors (ex. Nobel prize 2011 to my former supervisor Jules Hoffmann).

## FUNDING

The laboratory has been supported

# by two successive SNF grants:

- 2008-2012: 'The *Drosophila* gut immune response' extended 2 year-bonus of excellence
- 2013-2015: 'Compartmentalization of the *Drosophila* gut: molecular organization and impacts on digestion and mucosal immunity') extended 2 year-bonus of excellence

# by two successive ERC advanced grants:

- 2009-2014: 'Gut immunity and homeostasis in *Drosophila*'
- 2014-2019: 'The *Drosophila-Spiroplasma* interaction as a model to dissect the molecular mechanisms underlying insect endosymbiosis'

# by A Synergia SNF grant:

- Defensive symbiosis in insects – linking molecular mechanisms with ecology and evolution

## TEACHING

Biology II (year 1): Animal systematic & introduction to immunology

Physiology by system (year 3): Immunology

Master courses on innate immunity & symbiosis (Year 4)