

International conference:

## “Nobel 50 years. Jacob, Lwoff, and Monod founders of molecular biology”

**Organizing committee:** Henri Buc, Aude Cambon, Jean-François Chambon, François Gros, Simon Legendre, Laurent Loison, Michel Morange, Maxime Schwartz, Agnes Ullmann, Moshe Yaniv.

**Dates:** Monday 28 and Tuesday 29, September 2015.

**Place:** Main lecture hall, Duclaux building, Pasteur Institute, Paris, France.

### Day 1 (Monday, 28-09-2015)

**9h00 – 9h15**                    Opening – Christian Bréchot (Director of the Pasteur Institute)

#### **Session 1      Historical roots**

*Chair : Agnes Ullmann (Pasteur Institute, Paris)*

**9H15 – 9h55**                    Richard Burian (Virginia Tech, Blacksburg, USA) & Jean Gayon (Paris-1, IHPST): “**Eugène Wollman and the question of lysogeny**”

**9h55 – 10h35**                    Maxime Schwartz (Pasteur Institute, Paris): “**From enzymatic adaptation to the operon**”

*Break*

- 11h05 – 11h45** Laurent Loison (Centre Cavaillès, ENS, Paris): “**Lwoff’s ‘microbial physiology’ and the birth of the operon model**”
- 11h45 – 12h25** François Gros (Pasteur Institute & Collège de France, Paris): “**The context of the ‘great collaboration’**”

*Lunch*

**Session 2 Scientific legacy**

*Chair: Jean-Pierre Changeux* (Pasteur Institute & Collège de France, Paris)

- 14h30 – 15h10** Michel Morange (Centre Cavaillès, ENS, Paris): “**The oppositions to the operon model**”
- 15h10 – 15h50** Eric H. Davidson (California Institute of Technology, Pasadena, USA): “**An alternative to the operon**”

*Break*

- 16h20 – 17h00** Henri Buc (Pasteur Institute, Paris): “**Cross-talks between molecular biology and evolutionary prospects in Monod and Jacob**”
- 17h00 – 17h40** Denis Thieffry (CSB group, ENS, Paris): “**The operon and systems biology**”

- 18h00** Reception/Cocktail at the Pasteur Institute

**Day 2 (Tuesday, 29-09-2015)**

**Session 3 Philosophical context and political commitments**

*Chair: Claude Debru* (ENS, Paris)

- 9h00 – 9h40** Sean B. Carroll (University of Wisconsin-Madison, USA): “**Brave Genius: Jacques Monod’s Adventures from the French Resistance to the Nobel Prize**”
- 9h40 – 10h20** Hans-Jörg Rheinberger (Max Planck Institute, Berlin): “**Structuralism, information and linguistic in the context of the operon model**”

*Break*

- 10h50 – 11h30** Anne Fagot-Largeault (Collège de France, Paris): “**The responsibility of the scientist**”

**Session 4      Pasteurian lines of research, past and present**

*Chair: Moshe Yaniv (Pasteur Institute, Paris)*

- 11h30 – 12h30** **Binomial 1:** Jonathan Beckwith (Harvard Medical School, Boston, USA) & Jean-Marc Ghigo (Pasteur Institute, Paris)

*Lunch*

- 14h00 – 15h00** **Binomial 2:** Julian Davies (University of British Columbia, Vancouver, Canada) & Hilde De Reuse (Pasteur Institute, Paris)

- 15h00 – 16h00** **Binomial 3:** Edmond H. Fischer (University of Washington, Seattle, USA) & Pierre-Jean Corringer (Pasteur Institute, Paris)