

# INSTITUT D'ETUDES SCIENTIFIQUES DE CARGESE

## Cargèse International School 2016

## Bio perspectives

March 29-April 1<sup>st</sup>, 2016

### Web site

#### Francesca MERLIN

IHPST CNRS Univ. Paris 1  
ENS, Paris France  
francesca.merlin@univ-  
paris1.fr

#### Matteo MOSSIO

IHPST CNRS Univ. Paris 1  
ENS, Paris France

The scientific domain of the summer school is philosophy of biology. After having mostly focused for several decades on evolutionary biology, philosophy of biology has recently shown an increasing interest for issues coming from other biological disciplines, in particular molecular biology. Today, philosophy of biology must widen its scope, and include the new research domains that are emerging in the Life Sciences: it must deal with the philosophical and epistemological challenges and problems originated by those domains, and thereby profoundly renew the object of its reflection.

As a matter of fact, we witness today the emergence of a number of new research domains as, in particular, molecular epigenetics, metagenomics, systems biology and synthetic biology. Generally speaking, those new disciplines challenge the mainstream approach in biology during the 20th century, mainly centred on genes as the fundamental explanatory principle. More specifically, these new domains open the way to a more interactive and integrative perspective, by relying on new technologies for data production and analysis (as, for instance, next-generation sequencing techniques and new algorithms for treating massive experimental data).

Such an expansion and diversification entails major transformations – both theoretical and methodological – in the study of the functioning, development, and evolution of biological organisms. The central objective of this summer school is to identify the main conceptual and epistemological challenges with which philosophy of biology will deal for the next decade and beyond.

#### Main topics will include

- Philosophy of biology

#### Eminent scientists in the field will animate the workshop. These include:

*Eric Baptiste (CNRS & UPMC, Paris FR), Christoph Grunau (Univ de Perpignan FR), Ulrich Krohs (Univ de Hamburg DE) Ariel Lindner (INSERM, CRI, Paris FR), Francesca Merlin (CNRS, IHPST Paris FR), Michel Morange (ENS, Paris FR), Maureen O'Malley (CNRS, ALYSAI & Univ de Bordeaux FR), Olaf Wolkenhauer (Univ de Rostock SBI)*

#### Scientific Committee

Arantza Exteberria (Univ. del Pais Vasco, San Sebastian ES), Jean Gayon (Univ. Paris 1 FR), Thierry Hoquet (Univ. Lyon 3 FR), Philippe Huneman (IHPST Paris FR), Lucie Laplane (IHPST Paris FR), Francesca Merlin (IHPST Paris FR), Paul Antoine Miquel (Univ. Toulouse 2 FR), Maël Montévil (Univ. Paris 7 FR), Matteo Mossio (IHPST Paris FR), Antonine Nicoglou (IJM Paris FR), Thomas Pradeu (ALISAI/CIRID Bordeaux FR), Kepa Ruiz-Mirazo (Univ. del Pais Vasco, San Sebastian ES)

#### Organization Committee

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#### Application and registration

<http://www.ihpst.cnrs.fr/activites/colloques/nouvelles-perspectives-en-philosophie-de-la-biologie-ecole-thematique-cnrs>

Deadline for application : 2016, February 15

Registration Fees : 200 € for student, 350 € for others

