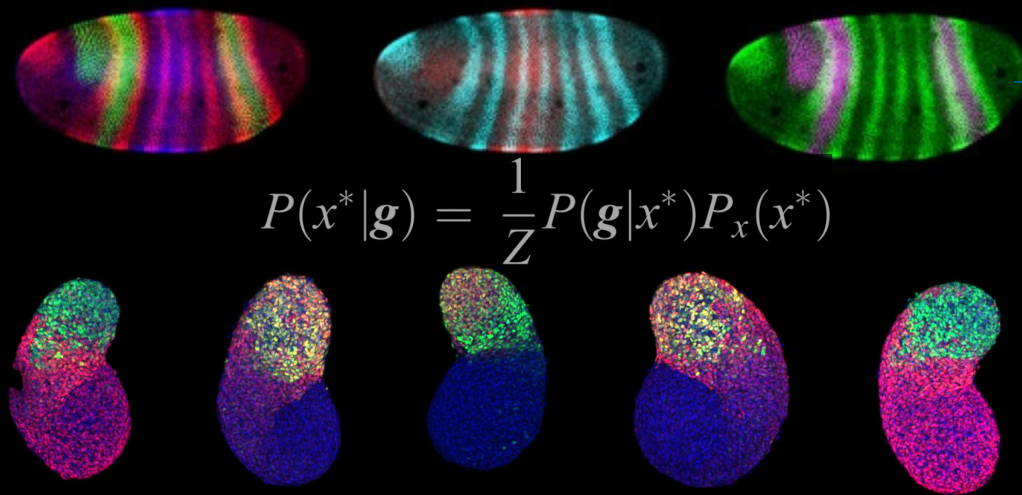


16 mai 2025 — COLLOQUIUM

Information Processing in Biological Systems

Organisation : Thomas LECUIT,
Chaire Dynamiques du vivant



FRIDAY, MAY 16th, 2025 — Amphithéâtre Maurice Halbwachs

09:00 Thomas Lecuit, Collège de France
Welcome

09:10 Stephen Quake, Stanford University, USA
Information flow in the cell: from genome to cell type

09:50 Yaron Antebi, Weizman Institute, Israel
*Deciphering cellular integration
of the contradictory BMP and TGFβ signals*

10:30 Coffee break

11:00 Lisa Manning, University of Syracuse, USA
*Are cell-scale physical learning rules operating
during embryonic development?*

11:40 Manuel Théry, Institut Pierre Gilles de Gennes, Paris, France
*What is encoded in the selective stabilization
of microtubules?*

12:20 Lunch

14:00 Thomas Gregor, Institut Pasteur, Paris, France
Specifying cellular identities in the early fly embryo

14:40 Madan Rao, NCBS, Bangalore, India
*Decoding & encoding of molecular information,
global optimization and geometry*

15:20 Aleksandra Walczak, ENS Paris, France
Precision in a rush: temporal aspects of decision making

16:00 Coffee break

16:30 David Brueckner, Univ Basel, Biozentrum, Switzerland
Self-organized information flow in stem cell patterning

17:10 Claire Wyart, ICM Institute, Paris, France
*Decoding individual variability in motor
strategies during navigation*

17:50 *Conclusions*