

CV — Thomas LECUIT — Email : thomas.lecuit@univ-amu.fr

Place of birth : Saumur, France

Date of birth: 04/10/1971

Nationality: French

Institut de Biologie du Développement de Marseille (IBDM)

CNRS & Aix-Marseille Université, 13009 Marseille, France

Collège de France, Chair: Dynamics of Living Systems

11, Place Marcelin Berthelot, 75006 Paris.

1. Education

2003 Thesis Habilitation, Aix Marseille Université

1998 PhD, University of Paris 6

1994 MSc, University of Paris 6

1991 Ecole Normale Supérieure (ENS), Paris (Ulm)

2. Research and Professional experience

2016-present Professor, Collège de France. Chair: Dynamics of living systems

2024- Affiliate, Center for Living Systems, University of Chicago

2010-2016 Research Director (DR1) CNRS.

2006-2010 Research Director (DR2) CNRS.

2001-2006 Research Associate (CR1) CNRS.

2011 Visiting Professor, National Centre for Biological Sciences, Bangalore, India.

1998-2001 Postdoctoral Fellow, Princeton University, USA, with Pr. E. Wieschaus.

1995-1998 PhD thesis, EMBL, Heidelberg, Germany, with Dr. S. Cohen.

1994-1995 Master thesis, Rockefeller University, New York, USA, with Pr. C. Desplan.

3. Scientific Responsibilities

2017-present Founding and acting Director of Turing Centre for Living Systems (CENTURI), Marseille, an interdisciplinary center to study the complexity of biological systems in developmental biology, neuroscience, immunology and microbiology.

<https://centuri-livingsystems.org/>

2023-present Director of IRL (International Research Laboratory) of CNRS, between CENTURI (Marseille) and NCBS (Bangalore).

2014-present Director of LIA (International Associated Laboratories) of CNRS, between IBDM (Marseille) and NCBS (Bangalore).

2012-present Director of Labex INFORM ('Information flow at the membrane')
Interdisciplinary research network, Marseille, France.

2001-present Group Leader 'Organisation and Dynamics of Biological Forms' IBDM, Marseille (<https://www.ibdm.univ-amu.fr/team/organisation-and-dynamics-of-biological-forms/>)

4. Awards, Prizes and Membership

2023: Officier des Palmes académiques

2017: Chevalier des Palmes académiques
2017: Laureate of ERC Advanced Grant.
2015: Life Science Prize of Bettencourt Schueller Foundation
2015: Silver Medal of CNRS
2014: Elected Member of French Academy of Sciences.
2014: Elected Member of Academia Europaea.
2012: Laureate of ERC Advanced Grant.
2011: Grand Prix Victor Noury of French Academy of Sciences.
2009: Prix Antoine Lacassagne of Collège de France.
2009: Elected Member of EMBO.
2008: Laureate of HFSP Programme Grant.
2007: Early Career Award of European Life Science Organization (ELSO).
2007: Paoletti Prize of CNRS.
2006: Bronze Medal of CNRS.
2004: Laureate of EMBO Young Investigator Programme.
2003: Laureate of Foundation Schlumberger for Education and Research.
1998: HFSP Long-term Fellowship.
1995: EMBO PhD Fellowship.

5. Editorial activities

Editor of *Development*, Company of Biologists (since 2008).
Board of Reviewing Editors (BoRE) of *Science* (2014-2018)

6. Reviewing activities

- Journals: mostly Nature, Science, Cell, Nature Cell Biology, Developmental Cell, Current Biology, Journal of Cell Biology, eLife, and Nature Reviews journals.
- Grant agencies: International: ERC, HFSP, MRC (UK), Wellcome Trust (UK), BBSRC (UK), NSF (USA), and in Singapore, Israel, Switzerland, Italy, Netherlands, Poland. National: ANR, ARC (Association pour la recherche contre le cancer), FRM (Fondation Recherche Médicale).
- Reviewer of EMBO and HFSP short and long term fellowships, AXA Research Fund: evaluation of PhD, postdoctoral fellowships and ‘chairs’ in 2008-2013.
- Ad hoc external review: tenure evaluation (USA, Canada, Singapore, Japan), international prizes.

7. Scientific committees

Scientific Advisory Board (member): 4D Cellular Physiology (4DCP) research program at Janelia Research Campus (HHMI). Since Jan 2022 (<https://4dcpjanelia.org>)
Panel member: SNSF Advanced Grants 2022-present.
Panel member: SNSF Interdisciplinary Grant 2024.
Panel member, European Research Council, ERC Starting Grant, LS3 ‘Cell and Developmental Biology’, 2011, 2013, 2015, 2017. Shadow panel member in 2012, 2014, 2016.
Panel member: EMBO Course Committee, 2017-2018.
Panel chair, Call ‘Physique, Chimie, Biologie’ of Fondation pour la Recherche Médicale, 2015.
Panel member, Swiss National Science Foundation, Advanced Grants, 2022, 2023, Systems Biology, 2013-2015;

Panel member, ATIP/AVENIR (CNRS-INSERM), LS3 'Cell and Developmental Biology' in 2009,10,12.

Panel chair, ATIP/AVENIR LS3 'Cell and Developmental Biology' in 2014.

Panel member, ANR (SVSE2), in 2013.

Referee of PhD and Thesis Habilitation (HDR) of >15 PhDs and HDRs in France.

8. Conferences and Research Seminars

I have been regularly invited to international conferences (>100) and seminars/lectures (>100) since 2001 in Europe, North America (USA, Canada), Middle East (Israel, Emirates) and Asia (Japan, India, Singapore, China, Australia).

Conference organization: I have co-organized 20 international conferences and courses including:

- Santa Barbara Advanced School of Quantitative Biology, 22 July- 24 August 2013, KITP, Santa Barbara (Course Directors Boris Shraiman, T. Lecuit, Ewa Paluch and Joel Rothman)
- Society of Developmental Biology Meeting in Snowbird, Utah, US, 9-13 July 2015 (Org. Lee Niswander, President SDB, A. Groover, T. Lecuit, R. Lehmann and A. Wikramanayake)
- 27th Solvay Conference: Physics of Living Matter. Brussels, 18-20 Oct 2017. (Boris Shraiman, Chair; Bill Bialek, Daniel Fisher, Tony Hyman, Thomas Lecuit, Andrew Murray, session chairs).
- KITP Conference on Morphogenesis in Animals and Plants: Search for Principles, (Org: T. Lecuit, O. Leyser, S. Shvartsman, and S. Streichan), KITP Santa Barbara, US (22 July-23 Aug 2019).
- Chair of 1st Solvay Conference in Biology: in April 2024, Brussels. The organization and dynamics of biological computation. (<http://www.solvayinstitutes.be/html/solvayconference.html>)

Keynote, Plenary and named Lectures:

- Keynote Lecture: Forces across scales, Porto, March 2024
- Keynote Lecture: EMBO/EMBL Symposium : Mechanical Forces in Development. Heidelberg, July 2019.
- EMBO Plenary Lecture: ICCB International Congress of Cell Biology, Hyderabad, January 2018.
- Frank Pepe Lecture in Cell Biology, University of Pennsylvania, March 2015.
- EMBO Keynote Lecture: Australian Developmental Biology Workshop, Nov 2014.
- Mill Hill Lecture, NIMR, London, UK, Feb 2014.
- Katsuma Dan Lecture, Joint Physiology and Embryology courses. MBL, WoodsHole, USA, July 2010.