

CV Marie-Emilie Terret

Born Jan 3rd 1977, 2 kids (2008 and 2011).

Tenured Senior Research Scientist (DR2 INSERM)

Since 2017: **Group Leader and co-head** of "Oocyte Mechanics and Morphogenesis", CIRB, Collège de France, Paris

ORCID: 0000-0001-5843-925X

Education

- 2014: HDR, Life Sciences, Sorbonne University, Paris.
- 2004: PhD with Marie-Hélène Verlhac, Molecular and Cellular Developmental Biology, Sorbonne University, Paris.
- 2000: Magistère, Molecular and Cellular Biology, ENS de Lyon, Lyon.

Previous positions

- 2009-2017: CIRB, Collège de France, Paris, Staff scientist in Marie-Hélène Verlhac's lab.
- 2004-2009: Memorial Sloan Kettering Cancer Center, New York, Post-doctoral fellow in Prasad Jallepalli's lab.

Supervision/Co-supervision of 4 PhD students and 5 postdoctoral fellows

Teaching

Lecturer in several master courses in Paris

- Univ. Pierre et Marie Curie, «Normal and pathological development: genetic and cellular aspects».
- Cochin Institute, «Cell differentiation» since 2013.
- Ecole Normale Supérieure, «Developmental Biology» since 2013.
- Ecole Normale Supérieure/Curie Institute/Pasteur Institute, «Cell Biology» since 2018.

Invited lecturer for several international PhD programs and workshops

- MiFoBio 2018, the school of Functional Microscopy in Biology (Seignosse, France, October 2018).
- EMBO workshop Physical biology of morphogenesis (Cargèse, France, September 2018).
- International course on Developmental Biology (Curie Institute, Paris, France) since 2017.

Prizes and awards

- 2019: Prize Young Researcher Bettencourt-Schueller received by Isma Bennabi, my PhD student.
- 2015: Three Awards received by Agathe Chaigne, my PhD student: 18th Thesis Prize from Le Monde; Prize Young Researcher Bettencourt-Schueller; 65th Lindau Nobel Laureate meeting alumni.
- 2012-2017, 2021-2025: Incentive bonus (Prime d'encadrement doctoral et de recherche PEDR) INSERM.

Meetings

- Since 2016, invited speaker at 13 international meetings (EMBO meetings, Jacques Monod conferences, International Titisee Conferences..), 10 seminars in France and abroad (A* Star, Cambridge, Mc Gill...).
- Meeting co-organizer: 3 national meetings (Mifobio, ITMO Cell biology, GDR AQV).

Institutional responsibilities, commissions of trust

- 2016-2021: member in the Commission CSS1 of the INSERM.
- 2015, 2016, 2017, 2018, 2021: member of selection committees to recruit a Professor (Sorbonne Univ), Associate professors (Sorbonne Univ, Univ Paris 7) and Technicians (IBGC Bordeaux, CIRB, Jacques Monod Institute).
- Expert of application for the promotion to Professorship in Newcastle University, UK, in 2019.

- Member of an HCERES committee (Curie Orsay) in 2019.
- Since 2014: board member of the Gefluc (cancer foundation awarding grants).
- Since 2016: member of the doctoral school CDV ED515.
- Since 2013: 14 mid-thesis committees, 14 PhD juries, 6 HDR juries.
- Referee for the Wellcome Trust, the Czech project foundation.
- Referee for many journals among them Science, Nature Communications, EMBO J, J Cell Biol, Curr Biol, NAR, PNAS...

Grants

- 2022-2024 PSL-Q Life grant 80 k€.
- 2020-2022 BME seed grant 140 k€.
- 2020-2022 DIM Elicit 60 k€.
- 2017-2020 ANR Young Researchers (JCJC) 256 k€.
- 2017-2020 FFCR 80 k€.

Key 10 publications

Myosin-X is dispensable for spindle morphogenesis and positioning in mouse oocyte. Crozet F, Da Silva C, Verlhac M-H*, Terret ME*. *Development* 148: dev199364 (2021).

Artificially decreasing cortical tension generates aneuploidy in mouse oocytes. Bennabi I, Crozet F°, Nikalayevich E°, Chaigne A, Letort G, Manil-Segalen M, Campillo C, Cadart C, Othmani A, Attia R, Sykes C, Genovesio A, Verlhac M-H*, Terret ME*. *Nat Commun* 11: 1649-1663 (2020).

A computational model of the early stages of acentriolar meiotic spindle assembly. Letort G*, Bennabi I, Dmitrieff S, Nedelec F, Verlhac M-H, Terret ME*. *Mol Biol Cell* 30:863-875 (2019).

Shifting meiotic to mitotic spindle assembly in oocytes disrupts chromosome alignment. Bennabi I, Quéguiner I, Kolano A, Boudier T, Mailly P, Verlhac M-H*, Terret ME*. *EMBO Rep* 19: 368-381 (2018).

F-actin mechanics control spindle centring in the mouse zygote. Chaigne A, Campillo C, Gov NS, Voituriez R, Sykes C, Verlhac M-H*, **Terret ME***. *Nat Commun.* 7:10253 (2016).

A narrow window of cortical tension guides asymmetric spindle positioning in the mouse oocyte. Chaigne A, Campillo C, Gov NS, Voituriez R, Sykes C, Verlhac M-H*, **Terret ME***. *Nat Commun.* 6:6027 (2015).

A soft cortex is essential for asymmetric spindle positioning in mouse oocytes. Chaigne A, Campillo C, Gov NS, Voituriez R, Azoury J, Umaña-Díaz C, Almonacid M, Queguiner I, Nassoy P, Sykes C, Verlhac M-H*, **Terret ME***. *Nat Cell Biol.* 15(8):958-66 (2013).

Cohesin acetylation speeds the replication fork. **Terret ME**, Sherwood R, Rahman S, Qin J, Jallepalli PV. *Nature.* 462(7270):231-4 (2009).

The meiosis I-to-meiosis II transition in mouse oocytes requires separase activity. **Terret ME°**, Wassmann K°, Waizenegger I, Maro B, Peters JM, Verlhac M-H. *Curr Biol.* 13(20):1797-802 (2003).

DOC1R: a MAP kinase substrate that control microtubule organization of metaphase II mouse oocytes. **Terret ME**, Lefebvre C, Djiane A, Rassinier P, Moreau J, Maro B, Verlhac M-H. *Development.* 130(21):5169-77 (2003).