

## Publication List Marie-Hélène Verlhac

### Original Articles (\*: corresponding author)

Nikalayevich E, Letort G, de Labbay G, Todisco E, Shihabi A, Turlier H, Voituriez R, Yahiatene M, Pollet-Villard X, Innocenti M, Schuh M, Terret M-E\* and **Verlhac M-H\***. (2024). Aberrant cortex contractions impact mammalian oocyte quality. *Dev Cell* 59:841-852

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Letort G \*, Eichmuller A, Da Silva C, Nikalayevich E, Crozet F, Salle J, Minc N, Labrune E, Wolf JP, Terret ME, Verlhac MH. (2022). An interpretable and versatile machine learning approach for oocyte phenotyping. *J Cell Sci* jcs.260281

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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\*. (2020). Artificially decreasing cortical tension generates aneuploidy in mouse oocytes. *Nat Commun* 11: 1649-1663

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

Manil-Ségalen M, Łuksza M, Kanaan J, Marthiens V, Lane SIR, Jones KT, Terret ME, Basto R, **Verlhac M-H.** (2018). Chromosome structural anomalies due to aberrant spindle forces exerted at gene editing sites in meiosis. *J Cell Biol* 217: 3416-3430

Simerly C, Manil-Ségalen M, Castro C, Hartnett C, Kong D, **Verlhac MH**, Loncarek J, Schatten G. (2018). Separation and Loss of Centrioles From Primordial Germ Cells To Mature Oocytes In The Mouse. *Sci Rep* 8: 12791

Ahmed WW, Fodor E, Almonacid M, Bussonnier M, **Verlhac M-H**, Gov NS, Visco P, Van Wijland F, Betz T. (2018). Active mechanics reveal molecular-scale force kinetics in living oocytes. *Biophys J* 114: 1667-1679

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

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Li H, Moll J, Winkler A, Frappart L, Brunet S, Hamann J, Kroll T, **Verlhac M-H**, Heuer H, Herrlich P, Ploubidou A. (2015). RHAMM deficiency disrupts folliculogenesis resulting in female hypofertility. *Biol Open* pii: BIO201410892.

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Terret ME, Ferby I, Nebreda A, and **Verlhac M-H**. (2001). xRingo efficiently triggers meiosis resumption and induces cell cycle arrest in mouse oocytes and embryos. *Biol Cell* 93: 89-97.

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#### Invited Reviews & Book Chapters (\*: corresponding author)

**Verlhac M-H**. (2024). Exploring the maternal inheritance transmitted by the oocyte to its progeny. *Comptes Rendus de Biologie* from the French Academy of Sciences 18:45-52

Al Jord A\* & **Verlhac M-H\***. (2023). Dyes illuminate live human embryogenesis. *Cell* 186: 3143-3145

Almonacid M\* & **Verlhac M-H**. (2022). A mitochondrial niche protects oocyte RNPs. *Dev Cell* 23:2599-2600

**Verlhac M-H**. (2021). Preventing Aneuploidy: The groom must wait until the bride is ready. *J Cell Biol* 220: e202108030

Nikalayevich E\* & **Verlhac M-H.** (2021). Selfish centromeres, selfless heterochromatin. *Cell* 184:4843-4844

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Almonacid M\*, Terret ME, **Verlhac M-H.** (2018). [Control of nucleus positioning in mouse oocytes.](#) *Semin Cell Dev Biol* 9521 : 30358

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**Verlhac M-H.** (2016). Mother centrioles are kicked out so that starfish zygote can grow. *J Cell Biol* 212: 759-61

**Verlhac M-H** & Terret ME. (2016). Oocyte Maturation and Development. *F1000Research* 5 : 309-317

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