

E FABRE CV

Title/Academic education

2014-present: Principal Investigator (PI) - (CNRS), St Louis Hospital - Paris France
2011-2013: Scientific Director DR2 - (CNRS), Pasteur Institute – R.Kozsul . Paris France
2008 Habilitation to lead Research (HDR) Paris VI, Paris, France,
1994-2010: Junior (CR2) and senior Scientist CR1 (CNRS), Pasteur Institute- B.Dujon. Paris France.
1992-1994 Postdoctoral Fellow, EMBL, E. Hurt. Heidelberg Germany
1989-1992 PhD (National Institute of Agronomy (INRA) C.Gaillardin – Paris France

Most important publications in the last 5 years

1. Herbert S, Brion A, Arbona J-M, **Fabre E***, Zimmer, C*. 2017. Global Stiffening of chromatin underlies enhanced chromatin mobility in yeast after DNA damage. **in revision**
2. Arbona, J.-M., Herbert, S., **Fabre, E.**, and Zimmer, C. 2017. Inferring the physical properties of yeast chromatin through Bayesian analysis of whole nucleus simulations. **Genome Biology, in press**
3. Spichal, M., A. Brion, S. Herbert, A. Cournac, M. Marbouty, C. Zimmer, R. Kozsul, **Fabre, E*.,**. 2016. Evidence for actin dual role in regulating chromosome organization and dynamics in yeast. **J Cell Sci.** 129, 681–692.
4. Agmon, N., Liefshitz, B., Zimmer, C.*, **Fabre, E*.,** and Kupiec, M*. (2013). Effect of nuclear architecture on the efficiency of double-strand break repair. **Nature Cell Biology** 15, 694-699.
5. Brickner, D.G., Ahmed, S., Meldi, L., Thompson, A., Light, W., Young, M., Hickman, T.L., Chu, F., **Fabre, E.**, and Brickner, J.H. (2012). Transcription factor binding to a DNA zip code controls interchromosomal clustering at the nuclear periphery. **Dev Cell** 22, 1234-1246.
6. Wong, H., Marie-Nelly, H., Herbert, S., Carrivain, P., Blanc, H., Kozsul, R., **Fabre, E.**, and Zimmer, C. (2012). A Predictive Computational Model of the Dynamic 3D Interphase Yeast Nucleus. **Curr Biol** 22, 1881-1890.
7. Therizols, P., Duong, T., Dujon, B., Zimmer, C., and **Fabre, E***. (2010). Chromosome arm length and nuclear constraints determine the dynamic relationship of yeast subtelomeres. **PNAS** 107, 2025-2030.

Invited reviews in the last 5 years

1. Spichal, M and **Fabre E***. 2017 . The emerging role of cytoskeleton in chromosome dynamics . Research Topic on "Design and principles of nuclear structure" hosted by Dr(s) Piergiorgio Percipalle, Neus Visa in Frontiers in Genetics, section Epigenomics and Epigenetics. **in press**
2. Almayrac, E and **Fabre E***. 2017 . Yeast nucleus: a model for chromatin folding principles . hosted by Christophe Lavelle & Jean-Marc Victor in Translational Epigenetics series. Elsevier. **Book chapter**
In: Elsevier. Elsevier.
3. Spichal, M., and **Fabre, E *** 2013. Subnuclear architecture of telomeres and subtelomeres in yeast. Hosted by Edward Luis. Springer-Verlag GmbH Berlin Heidelberg. **Book chapter.**
4. C.Zimmer and **Fabre E***. 2011. Principles of chromosomal organization: lessons from yeast. **J.Cell Biol.**192, 723-733

Granted Research in the last 5 years as PI

ARC (2012-2014), LABEX (2013-2017), ANR (2013-2017), IDEX SLH (2014-2016), Cancéropôle (2015), IDEX USPC (2015-2016), Ligue Nationale contre le Cancer (2016-2017), LABEX (2016-2017), FRM (2016-2018).

Training of Human resources

10 PhD students – 3 established as independent researchers – 3 Post docs - 2 Highly Qualified Technicians –

3 Engineers – 1 CNRS junior scientist

Transversal training and responsibilities

2012-2016 CNU 65 Nomination (National University Committee) Cellular Biology
2008-present Jury member for PhD committees
2006- present Expert in scientific committees for graduate students University Paris VI
1994- present Teaching in Advanced courses from the Pasteur Institute (DEA-M2)

Participation in Scientific Societies and evaluation committees

Reviewer for research proposals (ANR, IP, NIH, FONCYT)
Peer reviewer for International Scientific Journals (Genome Research, J. Cell Biol, PLOS Genetics, Chromosoma, BBA, Yeast, Journal of Cell Science, Molecular Biology of the Cell, Science, Nature Communication, Science Report.
Editor in Research in Microbiology
Direction of Seminar series of Académie Vivante (Bétonsalon)