

Judith Miné-Hattab, CR, CNRS

UMR3664 unit "Nuclear Dynamics",
Angela Taddei team "Compartmentalization and dynamics of nuclear functions"
Institut Curie, 26 Rue d'Ulm, 75005 Paris
Nationality: French



Scientific interest : DNA repair, nuclear organization, super resolution microscopy, image analysis, diffusion of science

Current position

2022 to present CR CNRS/LCQB, IBPS, Paris, France.

Research Experience and Education

2014 – 2022	CR CNRS/IC "Nuclear Dynamics", Institut Curie, Paris, France.
2012 – 2013	Post-doctoral fellow, Xavier Darzacq team, ENS, Paris, France.
2008 – 2012	Post-doctoral fellow, Rodney Rothstein, Columbia University Medical Center, New York, USA.
2004 - 2008	PhD, Jean-Louis Viovy team, UMR 168, Institut Curie, Paris, France.
2001 – 2004	« Magistère » (L3, M1 & M2) in Fundamental Physics, Université Paris XI, M2 "Solid States Physics and Condensed Matter", Mention Bien.
1999 – 2001	Deug (L1 & L2) Mathematics, Computer science and Physics, Mention Bien, Université Paris XI

Funding and Prizes:

2023-2027:	ANR generic "AROSE" – partner
2022-2025:	ATIP "Nuclear architecture and dynamics of DNA repair in cells under compression"
2022-2023:	i-Bio Actions Incitations inter UMRs: "Functional imaging of condensates formed in response to stress – Coordinator.
2018-2022 :	ANR generic " RepairChrom " - Partner
2018-2020 :	Q-Life grant, « Physics of foci » - Coordinator
2017-2019 :	PSLgrant « Aux frontières des Labex » Muse-IC project- Coordinator
2013-2017 :	ANR Post-Doc return « DNA Dyna » - Coordinator
2010-2013 :	Marie Curie IOF (International Outgoing Fellowship)
2008-2010 :	EMBO Long-Term fellowship

2009: Prize from the Philippe Foundation to support French post-doc in USA

2008: Prize for young researchers from the Bettencourt Foundation

2008: Best inter-disciplinary PhD prize from the EADS

Professional Activities

Editorial work as reviewer for: EMBO, elife, NAR, Cell report,

Evaluations for grants: National Science Centre, Poland, 2017, 2021, evaluations for the Curie PhD program

Selected speaker or invited speaker in international meetings: MiFoBio 2021, Phase separation meeting 2019, REsearch TUMors BIology ReTuBi Meeting (2018), EMBO conference (2018), Gordon Research conference (2017), Epigenetics course Institut Curie (2017), EMBO (2012) ...

5 Most relevant publications

Physical observables to determine the nature of membrane-less cellular sub-compartments.

Mathias Heltberg, Judith Miné-Hattab, Angela Taddei, Aleksandra M. Walczak, Thierry Mora* corresponding authors.

eLife, 10:e69181, 2021.

Single molecule microscopy reveals key physical features of repair foci in living cells

Judith Miné-Hattab*, Mathias Heltberg, Marie Villemeur, Chloé Guedj, Aleksandra M. Walczak, Thierry Mora, Maxime Dahan, Angela Taddei*, * corresponding authors.

eLife, 10: e60577, 2021.

High-resolution visualization of H3 variants during replication reveals their controlled recycling" by Camille Clément, Guillermo Orsi, Alberto Gatto, Ekaterina Boyarchuk, Audrey Forest, Bassam Hajj, Judith Miné-Hattab, Mickaël Garnier, Zachary Gurard-Levin, Jean-Pierre Quivy, and Geneviève Almouzni.

Nature Communication, 9;9(1):3181, 2018.

Multi-scale tracking reveals scale-dependent chromatin dynamics after DNA damage.

Judith Miné-Hattab*¹, Vincent Recamier¹, Ignacio Izeddin, Rodney Rothstein*, Xavier Darzacq*.

¹co-first author. *co-corresponding author.

Molecular Biology of the Cell. 28(23): 3323–3332. 2017. Highlighted in MBoC.

Increased chromosome mobility facilitates homology search during homologous recombination.

Judith Miné-Hattab & Rodney Rothstein.

Nature Cell Biology 14(5), 510–517, 2012. Highlighted in Nature Reviews Molecular Cell Biology 13(5), 281, 2012 and in Nature Cell Biology 14(5), 448-450, 2012).

Supervision and Teaching

Supervision: 3 post-doctoral fellows, 2 PhD students (co-supervision), 4 M2 students, 4 M1 students.

Teaching : 2015-2019 : L3 semester, FdV program, Biophysics class (CRI), ~ 20h per year).

2004-2007 : L1/L2, optics at Paris Descartes University

Science Dissemination

Organizer of the Muse-IC project: <https://www.nature.com/articles/d41586-019-01422-0>

<http://bit.ly/projet-muse-ic>

<https://www.mos.org/subspace/music-of-the-genome>

Member of the “ActinArt Association”: https://www.actinart.com/index_fr.html

Other

2009 - 2010 : Evening Division in piano, Juilliard School of Music, grade A+, New York, USA.

1996: “Diplôme d’Execution” in piano & Chamber Music, Ecole Normale de Musique, Paris, France.

1994 : International Competition Pierre Lantier of piano, 3rd prize.

Career breaks

September 10th 2009 – January 10th 2010: Maternity leave, 4 months.

February 2011 – September 2011: Part-time work, 7 months.

November 1st 2013 – March 1st 2010: Maternity leave, 4 months.

November 15th 2018 – June 1st 2019: Maternity leave, 6.5 months.