

Enrico Maria DALDELLO

Birthdate: November 15, 1987

Nationality: Italy

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Areas of competence: Biochemistry, Molecular Biology, Developmental Biology, Bioinformatics, and cell biology.

Fields of study: Regulation of mRNA translation, Cell cycle, Oocyte meiosis, and Fertility.

• *Education*

- 12/06/2015 **Ph.D. in Biochemistry, Doctoral school “Life Complexity” Université Pierre et Marie Curie, now Sorbonne University (UPMC-PARIS 6).**
Members of the jury: Aude Dupré, Thierry Lorca, Marcel Mechali, Lionel Pintard and Odile Mulner.
Evaluation: Full marks, with “Très honorable” mention.
- 07/10/2011 **Master of Molecular Biology, Università Degli Studi Di Padova, Italy.**
Graduation marks: 110/110 *Cum laude*
- 11/07/2011 **Master “Sciences, Technologie, Santé à finalité Recherche” (PARIS 7-Diderot), France.**
Evaluation: Très bien (excellent) Ranking: 3/86
- 23/07/2009 **Bachelor degree in Molecular Biology, Università Degli Studi Di Padova, Italy.**
Graduation mark: 110/110 *Cum laude*

• *Professional experience*

- 01/07/2020 – present **Laboratory of Developmental Biology -UMR7622- Institut de Biologie Paris Seine (IBPS), Sorbonne University (UPMC-PARIS 6), France.**
Postdoctoral Scholar. Team “Biology of the oocyte” directed by Catherine Jessus.
- 01/12/2015-28/02/2020 **Center for Reproductive Sciences, ObGyn department, University of California – San Francisco (UCSF), San Francisco, California, USA.**
Postdoctoral Scholar. Team directed by Dr. Marco Conti
- 01/10/2011- 31/10/2015 **Laboratory of Developmental Biology -UMR7622- Institut de Biologie Paris Seine (IBPS), Université P. et M. Curie, now Sorbonne University (UPMC-PARIS 6), France.**
Ph.D. student under the direction of Aude Dupré and Olivier Haccard. Team “Biology of the oocyte” directed by Catherine Jessus and Olivier Haccard.
Dissertation title: “Arpp19 and Cdc6, two major regulators of the meiotic division in the *Xenopus* oocyte.”
- 01/01/2011-01/06/2011 **Institute Jacques Monod -UMR7592-, Université D. Diderot (PARIS 7, France).**
Undergraduate researcher under the direction of Alain Zider. Team “Molecular genetic of differentiation” directed by Joel Silber (now renamed “Molecular oncology and pathology of the ovary”).
- 01/02/2009-01/03/2009 **Department of biology, “Valisneri”, Università Degli Studi Di Padova, Italy.**
Stage under the direction of Rodolfo Costa. Team “Molecular genetic of development” directed by Rodolfo Costa.

• *Awards and distinctions*

- 21/06/2017 Prize for poster presentation and award for oral presentation: “**Single-cell analysis of Cdk1 substrate phosphorylation in mouse oocytes reveals new mechanisms of MPF regulation in space and time.**”
International Gordon Research Conference “Fertilization & activation of development”. Holderness, NH, USA.
- 15/06/2013 First prize for poster presentation and award for oral presentation: “**Cdc6 is tightly regulated during meiotic maturation of *Xenopus* oocytes**”
International EMBO workshop « Oocyte maturation and fertilization ». Banyuls-sur-Mer, France.

• Funding

- 25/06/2020 Post-Doc Fellowship “Postdoctorat 2 retour de l'étranger” from the “Fondation ARC pour la recherche sur le cancer” (<https://www.fondation-arc.org/the-fondation-arc>)
- 23/03/2017 Post-Doc Fellowship “The Lalor Foundation”-Advancing Research and Innovation in Reproductive Health. (<https://lalorfound.org/postdoctoral-fellowship-program/past-grants/>)
- 24/06/2014 One-year Fellowship “Fondation ARC pour la recherche sur le cancer”. (<https://www.fondation-arc.org/the-fondation-arc>)
- 16/09/2011 Three years Ph.D. Fellowship at Université Pierre et Marie Curie (UPMC), Doctoral School: “Life Complexity”. (<http://www.ed515.upmc.fr/fr/index.php>)
- 05/07/2010 Fellowship “Master Ile-de France” to attend the Master “Sciences, Technologie, Santé à finalité recherche mention génétique” (PARIS 7-Diderot). (<https://www.iledefrance.fr/bourses-mobilite-ile-de-france-etudiants>)
- 29/03/2010 ERASMUS fellowship (https://ec.europa.eu/programmes/erasmus-plus/node_en)

• Conference participation

- 18/07/2019-21/07/2019 Poster presentation at Society for the Study of Reproduction (SSR) 52nd annual meeting. San Jose, CA, USA.
Title: “**Cyclin B2 is required for progression through meiosis in mouse oocytes**”
- 07/06/2019 Invited speaker at Center for Reproductive Sciences annual meeting. San Francisco, CA, USA.
Title: “**Mouse meiotic maturation: a tale of two (or three) cyclins**”
- 16/01/2019-19/01/2019 Oral communication at the Fifth International Oocytes Meeting. Villefranche-sur-mer, France.
Title: “**Mouse meiotic maturation: a tale of two Cyclins**”
- 16/06/2017-21/06/2017 Oral presentation at the International Gordon Research Conference: "Fertilization & activation of development". Holderness, NH (USA).
Title: “**Single-cell analysis of Cdk1 substrate phosphorylation in mouse oocytes reveals new mechanisms of MPF regulation in space and time**”
- 28/06/2015-03/07/2015 Selected for the “65th Lindau Nobel Laureate Meeting”. Lindau, Germany.
Interdisciplinary: Physiology/Medicine, Physics, Chemistry
- 2014 Oral presentation at the Young Researchers in Life Science meeting 2014, Pasteur Institute, Paris, France.
Title: “**Timely**” **accumulation of Cdc6 is necessary for proper meiotic cell division.**
- 11/10/2014-15/10/2014 Poster presentation at the international CNRS-Jacques Monod Conference “Cell cycle: bridging scales in cell division”, Roscoff, France.
- 26/03/2014-27/03/2014 Oral presentation at the national meeting “Journées André Picard”, “Museum National d’Histoire Naturelle”, Paris, France.
Title: **Cdc6 is tightly regulated during meiotic maturation of *Xenopus* oocytes.**
- 12/06/2013-15/06/2013 Oral presentation and Poster presentation at: International EMBO workshop “Oocytes maturation and fertilization”, Banyuls-sur-Mer, France.
Title: **Cdc6 is tightly regulated during meiotic maturation of *Xenopus* oocytes.**

• Mentoring of students

- 2020 Natasja Costermans (Post-doc fellow at UC San Francisco)
- 2019 [Ria Marathe](#) (Junior specialist at UC San Francisco)
- [Elena Gochez](#) (Staff research associate at UC San Francisco)
- 2018 [Emily Grace Miller](#) (Undergraduate student at Stanford)
- [Estella Orpilla](#) (Junior specialist at UC San Francisco)
- 2016 [Kamal Kolluri](#) (High school student, now at UC Los Angeles)
- [Alfredo Hernandez](#) (4th year undergraduate at UC Berkeley)
- 2016 Teaching a class for “Reproductive Biology Research Meeting” for URI program (undergraduate UC Berkeley students), SEP Program (disadvantaged high school students), SMRTP (disadvantaged college students from all over the US).
Title of the lesson: “**MPF and the regulation of M-phase**”

- **Languages**

Italian (Native language), **English** (Fluent) and **French** (Advanced).

- **Scientific publications**

[ORCID-ID: 0000-0002-0456-8950](https://orcid.org/0000-0002-0456-8950)

1. Translational control of *Xenopus* oocyte meiosis: toward the genomic era.
Ferdinand Meneau, Aude Dupré, Catherine Jessus, and **Enrico Maria Daldello** * (* Corresponding author)
(Review article) Cells 2020, 9(6), 1502; <https://doi.org/10.3390/cells9061502>
2. Genome-wide analysis reveals a switch in the translational program upon oocyte meiotic resumption.
Xuan G. Luong*, **Enrico Maria Daldello***, Gabriel Rajkovic, Cai-Rong Yang, and Marco Conti.
(*Co-first authors)
Nucleic Acids Research. 2020 Apr 6;48(6):3257-3276. [doi: 10.1093/nar/gkaa010](https://doi.org/10.1093/nar/gkaa010).
3. The RNA binding protein DAZL functions as repressor and activator of maternal mRNA translation during oocyte maturation.
Cai-Rong Yang, Gabriel Rajkovic, **Enrico Maria Daldello**, Xuan G. Luong, Jing Chen, and Marco Conti
Nature Communication. 1399 (2020). [doi : 10.1038/s41467-020-15209-9](https://doi.org/10.1038/s41467-020-15209-9)
4. PP2A-B55 phosphatase and protein kinase A control oocyte meiotic division through their common substrate, Arpp19 protein.
Tom Lemonnier, **Enrico Maria Daldello**, Robert Poulhe, Tran Le, Marika Miot, Catherine Jessus, and Aude Dupré.
Under revision in Nature Communication. Pre-print in bioRxiv [doi: 10.1101/810549](https://doi.org/10.1101/810549)
5. Cyclin B2 is required for progression through meiosis in mouse oocytes.
Enrico Maria Daldello, Xuan G. Luong, Cai-Rong Yang, Jonathan Kuhn, and Marco Conti.
Development 146, dev172734 (2019), [doi: 10.1242/dev.172734](https://doi.org/10.1242/dev.172734)
6. Maternal mRNAs with distinct 3' UTRs define the temporal pattern of Ccnb1 synthesis during mouse oocyte meiotic maturation.
Ye Yang, Cai-Rong Yang, Seung Jin Han, **Enrico Maria Daldello**, Ara Cho, Joao P. Sousa Martins, Guoliang Xia, and Marco Conti.
Genes and Development 31, 1302-1307 (2017), [doi: 10.1101/gad.296871.117](https://doi.org/10.1101/gad.296871.117)
7. The Translation of Cyclin B1 and B2 is Differentially Regulated during Mouse Oocyte Reentry into the Meiotic Cell Cycle.
Seung Jin Han, João Pedro Sousa Martins, Ye Yang, Min Kook Kang, **Enrico Maria Daldello**, and Marco Conti
Scientific Report 7, 14077 (2017), [doi: 10.1038/s41598-017-13688-3](https://doi.org/10.1038/s41598-017-13688-3).
8. Control of Cdc6 accumulation by Cdk1 and MAPK is essential for completion of oocyte meiotic divisions in *Xenopus*.
Enrico Maria Daldello, Tran Le, Robert Poulhe, Catherine Jessus, Olivier Haccard, and Aude Dupré.
Journal of Cell Science 128, 2482-2496 (2015), [doi:10.1242/jcs.166553](https://doi.org/10.1242/jcs.166553)
9. Phosphorylation of ARPP19 by protein kinase A prevents meiosis resumption in *Xenopus* oocytes.
Aude Dupré*, **Enrico Maria Daldello***, Angus C. Nairn, Catherine Jessus, and Olivier Haccard.
(*Co-first authors)
Nature Communications 5,:3318 (2014), [doi:10.1038/ncomms431](https://doi.org/10.1038/ncomms431)
10. The Hippo kinase promotes Scalloped cytoplasmic localization independently of Warts in a CRM1/Exportin1-dependent manner in *Drosophila*.
Julie Cagliero, Antoine Forget, **Enrico Daldello**, Joël Silber, and Alain Zider.
FASEB Journal 4, 1330-1341 (2013), [doi: 10.1096/fj.12-216424](https://doi.org/10.1096/fj.12-216424)