

CURRICULUM VITAE

FORMATO EUROPEO PER IL CURRICULUM VITAE



INFORMAZIONI PERSONALI

Nome e Cognome

Barbara Mellone, PhD

Incarico attuale

Professor of Molecular and Cell Biology, University of Connecticut, USA

ISTRUZIONE E FORMAZIONE

• Date (da – a)

1993-1998 Laurea in Biologia con Specializzazione in Biologia Molecolare, Università Statale di Milano

1998-2003 Dottorato in Biologia Molecolare, Medical Research Council, Edinburgh, UK

• Nome e tipo di istituto
di istruzione o formazione

• Qualifica conseguita

ESPERIENZA LAVORATIVA

• Date (da – a)

1998-2002 Graduate Research Assistant Medical Research Council, Edinburgh, UK

2002-2003 Postdoctoral Fellow, University of Edinburgh, UK

2003-2008 Postdoctoral Fellow, University of California Berkeley/LBNL, USA

2009-2015 Assistant Professor, University of Connecticut, USA

2015-2021 Associate Professor (tenure), University of Connecticut, USA

2016-2017 Visiting Associate Professor, Harvard Medical School, Dept. of Genetics, USA

2021-present Professor, University of Connecticut, USA

• Nome e indirizzo del datore di
lavoro

• Tipo di azienda o settore

• Tipo di impiego

- Principali mansioni e responsabilità

.

MADRELINGUA

Italiano

Inglese (eccellente, lettura, scrittura, orale)

ALTRE LINGUE

- Capacità di lettura
- Capacità di scrittura
- Capacità di espressione orale

CAPACITÀ E COMPETENZE

TECNICHE

Con computer, attrezzature specifiche, macchinari, ecc.

PUBLICATIONS

1. SANTINELLO B., SUN R.* , AMJAD A.* , HOYT S.J.* , OUYANG L., COURRET C., LEO L., LARRACUENTE A.M., CORE L., O'NEILL R.J., **MELLONE B.G.** A centromere-derived retroelement RNA localizes in cis and is a core element of the transcriptional landscape of *Drosophila* centromeres. **BioRxiv** 2024. <https://doi.org/10.1101/2024.01.14.574223>
*Equal contributors
2. COURRET C., HEMMER L., WEI X., PATEL P.D., SANTINELLO B., GENG X., CHANG C-H., **MELLONE B.**, LARRACUENTE A.M. Rapid turnover of centromeric DNA reveals signatures of genetic conflict in *Drosophila*. **BioRxiv** 2023. doi: <https://doi.org/10.1101/2023.08.22.554357>
3. SANTINELLO B. AND **MELLONE B.G.** Cell biology: Centromere instability and replication stress underlie *Xenopus* hybrid incompatibility. **Current Biology**, Volume 32, Issue 18, PR947-R949, September 26, 2022. <https://doi.org/10.1016/j.cub.2022.08.015>. Dispatch.
4. PATCHIGOLLA V.S.P. AND **MELLONE B.G.** Enrichment of non-B-form DNA at *D. melanogaster* centromeres. **Genome Biology and Evolution**, Volume 14, Issue 5, May 2022, evac054. <https://doi.org/10.1093/gbe/evac054>.
5. ANTEL M., MASOUD M., RAJ R., PAN Z., **MELLONE B. G.** INABA M. Interchromosomal interaction of homologous Stat92E alleles regulates transcriptional switch during stem-cell differentiation. **Nature Comm.** 13: 3981 (July 2022).
6. **MELLONE B.G.** AND FACHINETTI D. Diverse mechanisms of centromere specification. **Curr Biol.** 2021 Nov 22;31(22):R1491-R1504. doi: 10.1016/j.cub.2021.09.083. Review.
7. PALLADINO J., CHAVAN A., SPOSATO A., MASON T.D., **MELLONE B.G.** Targeted *de novo* centromere formation in *Drosophila* reveals plasticity and maintenance potential of CENP-A chromatin. **Dev Cell.** 2020 Feb 10;52(3):379-394.
Issue Cover
Highlighted in: *De Novo* Centromere Formation: One's Company, Two's a Crowd. **Dev Cell**, Feb 10;52(10):257-258
Recommended by *Faculty Opinions*
Media: UConn Today
8. CHIK J.K,
MOISEEVA V., GOEL P.K., MEINEN B.A., KOLDEWEY P., AN S., **MELLONE B.G.**, SUBRAMANIAN L., CHO U.S. Structures of CENP-C cupin domains at regional centromeres reveal unique patterns of dimerization and recruitment functions for the inner pocket. **J Biol Chem.** 2019 Sep 20;294(38):14119-14134.
9. CHANG* C-H., CHAVAN* A., PALLADINO* J., WEI X., MARTINS N.M.C., SANTINELLO B., CHEN C-C., ERCEG J., BELIVEAU B.J., WU C-T., LARRACUENTE A.M.#, **MELLONE B.G.#.** Islands of retroelements are major components of *Drosophila* centromeres. **PLoS Biology.** 2019 May 14. <https://doi.org/10.1371/journal.pbio.3000241>
*Equal contributors
#Corresponding authors
Recommended by *Faculty of 1000*.
Media: ScienceNews.org; UConn Today; Phys.Org; eurekaalert.org
10. ROSIN, L. AND **MELLONE, B.G.** Centromeres Drive a Hard Bargain. Review. **Trends in Genetics** 2017 Feb;33(2):101-117.
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