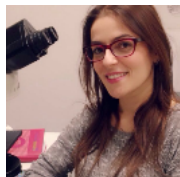


# MANUELA SOLLAZZO

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Work Address: Cellular Biochemistry Lab, University of Bologna, Dept. FaBiT, Via Selmi 3, 40126 – Bologna (Italy)

E-mail: manuela.sollazzo2@unibo.it

## EDUCATION

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April 2018

**PhD in ‘Cellular and Molecular Biology’, University of Bologna**

Thesis Title: ‘The Impact of MYC Modulation on Epithelial Cancer Evolution’ - Supervisor Prof A. Pession, Co-Supervisor Dr D. Grifoni - Conducted at CanceREvolutionLab, Dept. of Pharmacy and Biotechnology, University of Bologna.

March 2014

**Master Degree in ‘Health Biology’, University of Bologna**

Thesis Title: ‘Analysis of Vascular Mimicry in an Animal Model of Carcinogenesis’ - Supervisor Prof A. Pession, Co-Supervisor Dr D. Grifoni - Conducted at CanceREvolutionLab, Dept. of Pharmacy and Biotechnology, University of Bologna.

December 2011

**Bachelor in ‘Biological Sciences’, University of Bologna**

Thesis Title: ‘Lipid Assessment in a population of the *Brisighella Heart Study*’ - Supervisor Dr S. Cristino - Conducted at Internal Medicine Lab, Dept. Internal Medicine, University of Bologna.

## RESEARCH EXPERIENCE

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Oct 2018 – Sept 2019

**Post-doctoral Fellow**, Cell Biochemistry Lab, Dept. of Pharmacy and Biotechnology, University of Bologna, Via Selmi 3, 40126 Bologna (IT). Tutor: Prof AM Porcelli. Mitochondrial Bioenergetic Reprogramming in ovarian carcinomas.

May 2018 - Sept 2018

**Post-doctoral Training**, Cell Biochemistry Lab, Dept. of Pharmacy and Biotechnology, University of Bologna, Via Selmi 3, 40126 Bologna (IT). Tutor: Prof AM Porcelli. Mitochondrial Bioenergetic Reprogramming in ovarian carcinomas.

Nov 2017 - Apr 2018

**Research Collaborator**, CanceREvolutionLab, Dept. of Pharmacy and Biotechnology, University of Bologna, Via Selmi 3, 40126 Bologna (IT). Tutor: Prof A. Pession, Supervisor: Dr D. Grifoni. Modulation of Myc expression during tumourigenesis. Role of cancer-associated stroma in cancer evolution.

Nov 2014 - Oct 2017

**PhD Fellow**, CanceREvolutionLab, Dept. of Pharmacy and Biotechnology, University of Bologna, Via Selmi 3, 40126 Bologna (IT). Tutor: Prof A. Pession, Supervisor: Dr D. Grifoni. Strategies of oxygen supply in cancer.

Apr 2014 - Oct 2014

**Graduate Student**, CanceREvolutionLab, Dept. of Pharmacy and Biotechnology, University of Bologna, Via Selmi 3, 40126 Bologna (IT). Tutor: Prof A. Pession, Supervisor: Dr D. Grifoni.

- Jan 2013 - Mar 2014      **Undergraduate Student**, CanceREvolutionLab, Dept. of Pharmacy and Biotechnology, University of Bologna, Via Selmi 3, 40126 Bologna (IT). Tutor: Prof A. Pession, Supervisor: Dr D. Grifoni.
- Mar 2008 - Mar 2009      **Undergraduate Student**, Internal Medicine Lab (Prof Borghi), Dept. of Internal Medicine, University of Bologna.

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## OTHER SCIENTIFIC EXPERIENCES

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- AY 2018 - 2019      **Teaching Tutor** for 'Biochemistry of cellular signaling with laboratory' course (72568 - Prof M. Rugolo), and 'Biochemistry of complex cell systems and analysis of protein networks with laboratory' course (87604 - Module 2 - Prof G. Farruggia).
- AY 2016 - 2017      **Board Member** of 'General Pathology' course (00768 - Module 2 - Dr D. Grifoni), Health Biology Master degree, University of Bologna.
- AY 2014 - 2018      **Supervisor** of students for thesis preparation in 'Molecular and Cellular Biology' and 'Health Biology' Master degrees.
- Sept 2016      **Co-organiser** of the 'Italian *Drosophila* Research Conference 2016' (IDRC 2016), Bologna, Sept 14-16.

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## TECHNICAL SKILLS

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***Drosophila* Genetics:** crosses and selection, binary and inducible systems, clonal analysis;  
**Molecular Biology:** DNA, RNA and protein extraction from cells and tissues, PCR, qRT-PCR, WB;  
**Cell Biology:** organ and tissue dissection from fly larvae and adults, drug screening, IF and IHC techniques, eukaryotic cell cultures, viability and colony assays;  
**Imaging:** wide-field fluorescence microscopy, image analysis and dedicated software.

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## PUBLICATIONS

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- ABLA H, **SOLLAZZO M**, GASPARRE G, IOMMARINI L, PORCELLI AM. The multifaceted contribution of  $\alpha$ -ketoglutarate to tumor progression: an opportunity to exploit?. *Semin Cell Dev Biol.* 2019 Jun 5, pii: S1084-9521(18)30171-X. IF 2018: 5,460
- PAGLIA S\*, **SOLLAZZO M\***, DI GIACOMO\*, STROCCHI S, GRIFONI D. Exploring MYC relevance to cancer biology from the perspective of cell competition. *Semin Cancer Biol.* 2019 May 15, pii: S1044-579X(18)30172-X. IF 2018: 9,658 \*co-first author
- MIRZOYAN Z, **SOLLAZZO M**, ALLOCCA M, VALENZA AM, GRIFONI D, BELLOSTA P. *Drosophila melanogaster*: A Model Organism to Study Cancer. *Front Genet.* 2019 Mar 1; 10:51 IF 2018: 3,517
- KURELAC I, IOMMARINI L, VATRINET R, AMATO L, DE LUISE M, LEONE G, GIROLIMETTI G, UMESH GANESH N, BRIDGEMAN V, OMBRATO L, COLUMBARO M, RAGAZZI M, GIBELLINI L, **SOLLAZZO M**, FEICHTINGER R, VIDALI S, BALDASSARRE M, FORIEL S, VIDONE M, COSSARIZZA A, GRIFONI D, KOFLER B, MALANCHI I, PORCELLI AM, GASPARRE G. Inducing Cancer Indolence by Targeting Mitochondrial Complex I is potentiated by blocking macrophage-mediated adaptive responses. *Nat Comm.* 2019 Feb 22; 10(1):903. IF 2018: 11,880
- SOLLAZZO M\***, GENCHI C, PGLIA S, DI GIACOMO S, PESSION A, DE BIASE D, GRIFONI D\*. High MYC Levels Favour Multifocal Carcinogenesis. *Front Genet.* 2018 Dec 11; 9:612. IF 2018: 3,517 \*co-corresponding author

PAGLIA S, **SOLLAZZO M**, DI GIACOMO S, DE BIASE D, PESSION A, GRIFONI D. Failure of the PTEN/aPKC/Lgl Axis Primes Formation of Adult Brain Tumours in *Drosophila*. *BioMed Res Int*. 2017, ID 2690187. IF 2018: 2,197

DI GIACOMO S, **SOLLAZZO M**, DE BIASE D, RAGAZZI M, BELLOSTA P, PESSION A, GRIFONI D. Human Cancer Cells Signal Their Competitive Fitness Through MYC Activity. *Sci Rep*. 2017 Oct 3; 7(1):12568. IF 2018: 4,525

DI GIACOMO S\*, **SOLLAZZO M\***, PAGLIA S, GRIFONI D. MYC, Cell Competition, and Cell Death in Cancer: The Inseparable Triad. *Genes* 2017, 8(4), pii: E120. IF 2018: 3,331 \*co-first author

GRIFONI D, **SOLLAZZO M**, FONTANA E, FROLDI F, PESSION A. Multiple Strategies of Oxygen Supply in *Drosophila* Malignancies Identify Tracheogenesis as a Novel Cancer Hallmark. *Sci Rep*. 2015, 5:9061. IF 2018: 4,525

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## PARTICIPATION TO CONFERENCES

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**SOLLAZZO M**, FROLDI F, DI GIACOMO S, STROCCHI S, PAGLIA S, PESSION A, GRIFONI D. Growth and Tracheogenesis are Separable Traits in *Drosophila* Cancer. *IDRC* 2018, June 20-22 Padua (Italy). Oral Communication

**SOLLAZZO M**, FROLDI F, DI GIACOMO S, PAGLIA S, PESSION A, GRIFONI D. Tumour Growth and Tracheogenesis are Separable Cancer Hallmarks in *Drosophila*. "The Hippo Pathway Across Species and Disciplines" - EMBO Workshop 2017, 25-29 October, Roma (Italy). Selected Poster

**SOLLAZZO M**, DI GIACOMO S, GRIFONI D, DE BIASE D, PESSION A. Development of a *Drosophila* model for the study of cancer-stroma molecular interplay. *GISM* 2016, 20-21 October, Brescia (Italy). Oral Communication

**SOLLAZZO M**, CANCELLERI JS, DI GIACOMO S, DE BIASE D, PESSION A, GRIFONI D. MYC ectopic expression establishes a precancerous field leading to multifocal lesions in a *Drosophila* epithelial model. *FISV* 2016, 20-23 September 2016, Rome (Italy). Poster

**SOLLAZZO M**, CANCELLERI JS, DI GIACOMO S, DE BIASE D, PESSION A, GRIFONI D. MYC ectopic expression establishes a precancerous field leading to multifocal lesions in a *Drosophila* epithelial model. *IDRC* 2016, September 14-16, Bologna (Italy). Oral Communication

**SOLLAZZO M**, GRIFONI D. Strategies of oxygen supply in *Drosophila* malignant tumours. 'XVII Convegno della *Drosophila Italiana*', October 6-8, 2014 - Anagni (Italy). Oral Communication

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In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorise to use and process my personal details contained in this document.

Bologna, 28.08.2019

