



Curriculum Vitae – Graziano Martello

PERSONAL INFORMATION

Martello Graziano

Researcher unique identifier: orcid.org/0000-0001-5520-085X

Date of birth: 01/04/1980

Nationality: Italian

• **EDUCATION**

- 03/2009 PhD in Genetics and developmental biology
Thesis title: “MicroRNAs involved in embryonic development and tumour progression”
Department of Histology Microbiology and Medical Biotechnologies, University of Padua,
Italy - Prof. Stefano Piccolo
- 03/2005 Master Degreee in Medical Biotechnologies
Thesis title: “Isolation of a Ubiquitin ligase for Smad4: its role in germ layers formation and
cell proliferation, University of Padua, Italy

• **CURRENT POSITION**

- 08/2017 – Present Associate Professor of Histology
Department of Molecular Medicine - Medical School of Padua University, Italy
- 03/2014 – Present Telethon Scientist
Department of Molecular Medicine - Medical School of Padua University, Italy

• **PREVIOUS POSITIONS**

- 03/2014 – 2017 Assistant Professor of Molecular Biology
Department of Molecular Medicine - Medical School of Padua University, Italy
- 04/2010 – 02/2014 Research Associate

Project on the mechanisms controlling pluripotency in mouse ES cells (Prof. Austin Smith)
Wellcome Trust – Medical Research Council Centre for Stem Cell Research,
University of Cambridge, UK

01/2009 – 03/2010 Post-Doc
Project on microRNA controlling TGF-beta signalling (Prof. Stefano Piccolo)
Department of Histology Microbiology and Medical Biotechnologies, University of Padua,
Italy

- **HONOURS, PRIZES AND GRANTS**

2008 - “Concorso giovani ricercatori 2007” (Young researchers award 2007), for young Italian researchers .
2010 - “Cecilia Cioffrese” prize from the Carlo Erba Foundation.
01/2011 – 12/2013 HFSP (Human Frontiers Science Program) fellowship
2012 - “Young Venetian Excellence Award 2012” in the field of Life sciences.
2013 - Armenise-Harvard Career Development Award
2013 – Telethon DTI Career Development award
2016 – European Research Council (ERC) Starting Grant

- **TEACHING ACTIVITIES**

05/2018 – Present Course of Histology, Bachelor degree in Medicine, University of Padua, Italy
10/2014 – Present Course of Stem cells and developmental biology, Master degree in Medical Biotechnologies, University of Padua, Italy
10/2014 – 2017 Course of Molecular Biology, Bachelor degree in Medicine, University of Padua, Italy

- **INSTITUTIONAL RESPONSIBILITIES**

2014 – Present Faculty member Doctoral School in Biomedicine, University of Padua, Italy
2013 – Present Graduate Student Advisor, Wellcome Trust - Medical Research Council Centre for Stem Cell Research, University of Cambridge, UK
2012 – Present Graduate Student Advisor for:
Cro di Aviano Research Centre, Italy
San Raffaele University, Milan, Italy
INGM, Milan, Italy

- **COMMISSIONS OF TRUST**

2013 – Present I regularly serve as a reviewer for several international peer-review journals such as Development, Nature Communications, Stem Cell, Nature Cell Biology, The EMBO Journal and Nature.

10 SELECTED PUBLICATIONS AS LEAD AUTHOR

Giulitti, S., Pellegrini, M., Zorzan, I., Martini, P., Gagliano, O., Mutarelli, M., Ziller, M.J., Cacchiarelli, D., Romualdi, C., Elvassore, N.* and Martello G.*. (2018)

Direct generation of human naive induced pluripotent stem cells from somatic cells in microfluidics. **Nature Cell Biology** (*in press*). (* co-corresponding author)

Dunn, S.J., Li, M.A., Carbognin, E., Smith, A.*, and Martello G*. (2018)

A common molecular logic determines embryonic stem cell self-renewal and reprogramming. **EMBO Journal**. 2018 Nov 27. pii: e100003. doi: 10.15252/embj.2018100003. (* co-corresponding author)

Yordanov, B., Dunn, S.J., Kugler, H., Smith, A., Martello, G.* & Emmott, S.* (2016)

A Method to Identify and Analyze Biological Programs through Automated Reasoning. **Nature Systems Biology and Applications** (* co-corresponding author)

Carbognin, E., Betto, R., Soriano, M.E., Smith, A* & Martello, G.* (2015)

LIF/Stat3 directly promotes mitochondrial respiration during maintenance and induction of naive pluripotency. **EMBO Journal** (*co-corresponding author)

Dunn, S.-J., Martello, G.*+, Yordanov, B., Emmott, S., & Smith, A. G.* (2014)

Defining an essential transcription factor program for naïve pluripotency. **Science** (New York, N.Y.), 344(6188), 1156–1160. (+co-first and *co-corresponding author)

Martello, G., & Smith, A. (2014).

The nature of embryonic stem cells. **Annual Review of Cell and Developmental Biology**, 30, 647–675.

Martello, G.*, Bertone, P., and Smith, A.* (2013)

Identification of the missing pluripotency mediator downstream of leukaemia inhibitory factor. **EMBO Journal**. (*co-corresponding authors)

Martello, G., Sugimoto, T., Diamanti, E., Joshi, A., Hannah, R., Ohtsuka, S., Göttgens, B., Niwa, H., and Smith, A. (2012)

Esrrb Is a Pivotal Target of the Gsk3/Tcf3 Axis Regulating Embryonic Stem Cell Self-Renewal. **Cell Stem Cell** 11, 491–504.

Martello, G., Rosato, A., Ferrari, F., Manfrin, A., Cordenonsi, M., Dupont, S., et al. (2010)

A MicroRNA Targeting Dicer for Metastasis Control. **Cell**, 141(7), 1195–1207.

Martello, G., Zacchigna, L., Inui, M., Montagner, M., Adorno, M., Mamidi, A., et al. (2007)

MicroRNA control of Nodal signalling. **Nature**, 449(7159), 183–188.

Profilo Google Scholar:

<https://scholar.google.it/citations?user=VA8QAs4AAAAJ&hl=it>

ORAL PRESENTATIONS – INVITED SPEAKER

June 21st 2018 – Rome (Italy) SIBBM Frontier in Molecular Biology

Title: A common molecular logic determines pluripotent stem cell self-renewal and reprogramming

May 5th 2018 – Pavia (Italy) University of Pavia, Collegio Ghislieri, Lectio Magistralis for the Research Day,

Title: Chasing cell identity: from embryos to stem cells

February 23rd 2018 - Vienna (Austria) IMP – IMBA, SY-STEM the next generation of stem cell researchers International meeting

Title: Direct generation of human naïve induced pluripotent stem cells from somatic cells in microfluidics.

November 22nd 2017 – Milan (Italy) TIGET - San Raffaele

Title: Metabolic and transcriptional control of pluripotent stem cells

November 20th 2017 - Cold Spring Harbor Laboratories (NY, USA) STATs:

IMPORTANCE IN BASIC & CLINICAL CANCER RESEARCH international meeting

Title: LIF/Stat3 signal reshapes the metabolic profile of Pluripotent Stem cells

October 2016 – Dresden (Germany) CRTD “Rising Star Lectures”

Title: Metabolic and transcriptional regulation of Pluripotency”.

September 24th 2014 – Pisa (Italy) FISV 2014

Title: “Cracking the naive Pluripotency code”

June 8th 2013 – University of Coimbra (Portugal) BEB Symposium

Title: “Integration of signalling pathways by the gene regulatory network of pluripotent embryonic stem cells”

March 8th 2013 - Rusutsu (Japan) BSRC-JST meeting

Title: “Tcfcp2l1 mediates maintenance and induction of Pluripotency downstream of LIF/Stat3”