


# Curriculum Vitae


Michela Pucci

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## PERSONAL INFORMATION

Michela Pucci

 Via Turchiciello 8 | Postcode: 83031 | City: Ariano Irpino (AV) | Country: Italy

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Sex Female | Date of birth 15|10|1991 | Nationality Italian

## POSITION

Ph.D Student, "Oncology, Hematology and Pathology" Ph.D programme, at Pathology Department, Glycobiology Lab, University of Bologna, Italy

## EDUCATION AND TRAINING

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01/11/2017 to present

PhD student at Department of Experimental, Diagnostic and Specialty Medicine

University of, Bologna, Italy

- The main aim of Phd project is the analysis of the glycosyltransferase B4GALNT2 and its cognate Sd<sub>a</sub> antigen in colorectal cancer (CRC). The investigation comprehends the study of the phenotype and transcriptome of colorectal cancer cell lines *in vitro* and the analysis of CRC patients profile *in silico*.

Ph.D Supervisor: Prof. Fabio Dall'Olio

13/01/2020 to 13/05/2020 Visiting Phd Student at Faculty of Science and Technology

Nova University, Lisbon, Portugal

- The research carried on in the Glycoimmunology Laboratory aimed at establishing a system *in vitro* for the immunological characterization of CRC cell lines genetically modified to express the glycosyltransferase B4GALNT2

Visiting Ph.D Supervisor: Prof. Paula Videira

15/03/2017 to 6/10/2017 Internship at Department of Lymphocyte Signaling and Development  
Babraham Institute, Cambridge, UK

- The internship, under the Unipharma-Graduates Project, promoted within the Erasmus+ Student Mobility Traineeship scheme, in the Roychodhuri group, Department of Lymphocyte Signaling and Development, was focused on characterising molecular and cellular mechanisms of tumour immunosuppression. The research study has been carried out through a variety of approaches including mouse genetics, cellular and molecular immunology, functional genomics and protein biochemistry.

Supervisor: Dr Rahul Roychoudhuri

20/10/2014-02/03/2017 Master's Degree in Health Biology Grade: 110/110 cum laude  
Alma Mater Studiorum, University of Bologna (Italy).

- My master's thesis "Unravelling the role of inflammatory cytokines in resistance to monoclonal antibody therapy" aimed at investigating the mechanisms through which a signature of interleukins contributes to the failure of EGFR blockage, leading to drug resistance. The research project has been carried out in Department of Experimental, Diagnostic and Specialty Medicine- Histology, Embryology and Applied Biology Unit. During the one year training I was exposed to deep laboratory practice, by employing both cellular and molecular biology techniques.

Thesis supervisor: Dr Mattia Lauriola

11/10/2010-17/10/2014 Bachelor's Degree in Biological Sciences Grade: 110/110  
Unisannio "Department of Science and Technology", University of Benevento (Italy).

- My thesis work "Scientific bases of pancreatic stem cells", focused on stem cells in pancreas, aimed to investigate the pancreatic islets transplantation as an alternative treatment for diabetes disease. The study enabled the visiting access to the research activity in the laboratories of Biogem Research Campus, Ariano Irpino, Italy

Thesis supervisor: Dr Geppino Falco.

26/05/2013-26/08/2013 Traineeship at the "G. RUMMO HOSPITAL" O.U. Clinical Pathology  
Benevento (Italy)

- The training period enabled me to work in different laboratories such as the Microbiology Unit. I independently worked on the analysis of different biological samples through devices and instruments commonly used in the laboratory.

## PERSONAL SKILLS

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Mother tongue Italian

Other language

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	B2

English:

**IELTS CERTIFICATE**

Date 02/03/2016 CEFR Level: B2

**Communication skills** Good communication skills both oral, expressed in presentations, and written, developed with essays writing. In addition, good verbal communication abilities expressed as a leader of a multilingual group and as a member of a cultural association. I characterize myself as a sociable person, well-organized, open-minded and hard working. I'm able to interact with people of different countries and cultures and get along with peers within the laboratory.

**Organisational skills** Good organisational abilities as a member of team projects within both academic and non-academic environments.

**Computer skills**

- Microsoft Office Package (Word, Excel, PowerPoint): Very good
- Adobe Illustrator: good
- ImageJ: very good
- Language R: basic
- GraphPad-Prism: good
- Flowjo: very good
- Database management: very good

**Technical skills** Cell cultures; explant cultures of mouse tissue; Preparation of culture media; proliferation assays; DNA extraction; DNA Electrophoresis; RNA extraction; PCR; qPCR; extraction and quantification of proteins; Western Blotting; extraction of tumor interstitial fluid; Flow Cytometry; CRISPR/Cas9; Optical and Fluorescence Microscopy Technique; Enzymatic activity assays

## ADDITIONAL INFORMATION

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### Conferences

- 4<sup>th</sup> International Conference "**Translational Research in Oncology**" Meldola-Forlì (Italy) 8<sup>th</sup> November 2016 – Poster – "Mechanisms Of Acquired Resistance To Cetuximab: Role Of Interleukin 1"
- 11<sup>th</sup> Researchers Seminar, CRBA, Policlinico S.Orsola-Malpighi, Bologna (Italy) 22<sup>nd</sup> May 2017 – Poster – "Mechanisms Of Acquired Resistance To Cetuximab: Role Of Interleukin 1"
- ABCD National Ph.D Meeting, Salerno (Italy) 22-24 March 2018 – Poster – " Glycosylation in colorectal cancer: role of b4GalTII and sialyl lewis x antigen"
- FISV XV Congress, Sapienza University of Rome, Rome (Italy) 18-21 September 2018 – Oral presentation– "Role of glycosyltransferase B4GALNT2 and its cognate Sda antigen in colorectal cancer"
- 31<sup>st</sup> Annual Conference of Italian Association of Cell Cultures (AICC) "**Cell Communication and Signaling-How to turn bad language into a positive one**", IOR Bologna (Italy) 27-28 November 2018 – Poster– "Role of glycosyltransferase B4GALNT2 and its cognate Sda antigen in colorectal cancer"
- GRC Gordon Research Conference- Glycobiology 10-15 March 2019 – Poster– "Role of the glycosyltransferase B4GALNT2 and its cognate Sda antigen in Colorectal Cancer"
- ABCD Congress 2019, Bologna (Italy) 19-21 September 2019 – Poster – " Unveiling The Role Of The Glycosyltransferase B4GALNT2 And Its Cognate Sda Antigen In Colorectal Cancer"

### Publications

- Gelfo, Valerio; Rodia, Maria Teresa; Pucci, Michela; Dall'Ora, Massimiliano; Santi, Spartaco; Solmi, Rossella; Roth, Lee; Lindzen, Moshit; Bonafè, Massimiliano; Bertotti, Andrea; Caramelli, Elisabetta; Lollini, Pier-Luigi; Trusolino, Livio; Yarden, Yosef; D'Uva, Gabriele; Lauriola, Mattia, *A module of inflammatory cytokines defines resistance of colorectal cancer to EGFR inhibitors*, «ONCOTARGET», 2016, 7, pp. 72167 – 72183
- Gomes Ferreira, I., Venturi, G., Pucci, M., Malagolini, N., Chiricolo, M. & Dall'Olio, F., *Glycosylation as a main regulator of growth and death factor receptors signaling*. «International Journal of Molecular Sciences», 2018,19, 580

- Pucci, Michela; Lauriola, Mattia, “*Resistance to EGFR Targeting Treatments in Colorectal Cancer*”, «*Oncogenomics - From Basic Research to Precision Medicine*», Bari, Franco Dammacco and Franco Silvestris, 2019, pp. 257 - 269
- Venturi, G., Gomes Ferreira, I., Pucci, M., Ferracin, M., Malagolini, N., Chiricolo, M. & Dall’Olio, F., *Impact of sialyltransferase ST6GAL1 overexpression on different colon cancer cell types*, *Glycobiology*. 2019 Jul 18
- Pucci M.; Gomes Ferreira I.; Orlandani M.; Malagolini N.; Ferracin M.; Dall’Olio F., *High Expression of the Sda Synthase B4GALNT2 Associates with Good Prognosis and Attenuates Stemness in Colon Cancer*, «*CELLS*», 2020, 9, pp. 1 - 18

## Honours and awards

- Best Poster Award- 4<sup>th</sup> International Conference "Translational Research in Oncology" Meldola-Forlì (Italy) 8<sup>th</sup> November 2016
- ERASMUS+ Unipharma Graduates Fellowship 2016-17
- Best Graduate Award 2016-17- University of Bologna (Italy)
- “Marco Polo Fellowship” 2019 DIMES – University of Bologna (Italy)