

# CURRICULUM VITAE



## PERSONAL INFORMATION

Surname, name

**MANTELLI BARBARA**

E-mail

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Nationality

italian

## WORK EXPERIENCE

- January 2016 – today
  - Occupation or position held International Research Office, University of Padua - Italy
  - Main activities and responsibility Research Advisor for Life Science area
    - Scouting of talented researchers as potential ERC candidate; • Monitoring EU funding opportunities that match with researchers' interests; • Partners searching to build up winning consortia; • proposals writing and pre-award screening of EU proposals; • training activity on how become a successful grant holder; support for the ethics self assessment, support as ethics advisor for the Cofund project "UniPhD", involved in the development of UNIPD Ethics Committee for research on human participants (e.g. social science research, neuroscience and psychology research, non-invasive collection of human samples).
  
- April 2014 – December 2015
  - Occupation or position held Laboratory of Genomic Screening, Centre for Integrative Biology, University of Trento - Italy
  - Main activities and responsibility Senior post-doc fellow
    - Development of immunological tools to evaluate functional relationship between inflammation and cancer; Dissect the role of HuR and EIF2a proteins in carcinogenesis
  
- January 2012 – today
  - Occupation or position held Hope Onlus NGO, Milan – Italy (humanitarian projects for earthquake victims and war victims)
  - Main activities and responsibility Fundraiser
    - Humanitarian operator; • identifying donor resources and funding opportunities; • writing project ideas; • providing assistance during organization of fundraising events
  
- January 2010 – March 2014
  - Occupation or position held Laboratory of viral immunology, University of Padua - Italy
  - Main activities and responsibility PhD fellow
    - Development and standardization of B-cell elispot to measure the efficacy of vaccination against Papillomavirus; • Principal investigator of small project "Myeloid-derived suppressor cells as new tool for the treatment of IBD, pre-clinical study in mouse model"
  
- September 2008 – December 2011
  - Occupation or position held Pleiadi Group - Science communication group, Padua - Italy
  - Main activities and responsibility Science communication consultant
    - Design of hands-on science experiments for primary and secondary school; • organization of science exhibitions and educational
  
- October 2008 – September 2009
  - Main activities and responsibility Maternity leave
  
- November 2006 – September 2008
  - Occupation or position held Laboratory of Tumor immunology , Venetian Institute of Molecular Medicine, Padua - Italy
  - Main activities and responsibility Post-graduate fellow
    - Screening of a new class of drugs for the treatment of prostate cancer; • Evaluation of the molecular mechanisms involved in the restoration of tumor infiltrating lymphocytes activities in tumor-bearing mice treated with furoxan derivatives; • Role of myeloid derived suppressor cells in the tumoral microenvironment
  
- November 1999 – November 2006
  - Occupation of position held Laboratory of Clinical Immunology - Fondazione San Raffaele del Monte, Milan - Italy
  - Main activities and responsibility Students and post-graduate fellow
    - Underlying the role of CD30/CD30L in HIV replication in  $\alpha/\beta$  and  $\gamma/\delta$  T cells; • Immunological responses in multidrug resistance HIV+ patients subjected to a granulocytes-monocytes apheresis: study of cellular and molecular mechanisms involved in the clinical benefits; • Role of

the CXC3 receptor and its three ligands in different chronic inflammatory diseases

## EDUCATION AND TRAINING

- November 2020 – September 2021
  - Name and type of organization: Master in Bioethics  
University of Padua, Italy – School of Medicine
  - June 2018 – up to now
    - Name and type of organization: Several training courses on GDPR applied to research  
APRE, Italian Agency for European Research
    - February 2015
      - Name and type of organization: Master in “Euro-project developer”  
Europe Cube Business School, Milan - Italy
  - January 2011 - March 2014
    - Name and type of organization: PhD in Biomedicine  
University of Padua, Italy – Department of Molecular Medicine
- January 2005 – December 2005
  - Name and type of organization: Master in Science Communication  
University of Padua, Italy – Faculty of Physics
  - Level in national classification: Master with honor
- October 1997 – July 2004
  - Name and type of organization: Bachelor degree in Biological Sciences  
University of Milan, Italy
  - Level in national classification: 108/110

## PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

ENGLISH (Common European Framework of Reference for Languages)  
Reading skill: C1; Writing skill: B2; Verbal skill: B2

SOCIAL SKILLS AND COMPETENCES

Moral of steel, self-motivation and excellent communication skills for a wide range of audiences;

ORGANIZATION SKILLS AND EXPERTISE

• Strong ability to work in a team and to take initiatives with minimum supervision (planning and execution); excellent ability to prioritize and organize activities in order to meet deadlines; problem-solving attitude; ethical behaviour; good organisational skills and record-keeping; proficient in Microsoft Office and general computer skills for daily activities

TECHNICAL SKILLS AND EXPERTISE

### Skills as scientist:

- Molecular biology techniques (PCR, RT-PCR, transfection, western blot)
- Immunological methods (design and develop of ELISA, B- and T-elispot assay, cytotoxicity assay, chemotaxis assay, mixed-lymphocyte reaction, multiparametric flow cytometry, immunomagnetic cell sorting)
- In vivo experiments on tumor-bearing mice
- Virology methods (expansion and titration HIV-1; determination of RT activity; production of viral-like particle of HPV)

### Skills as EU project developer

Deep knowledge of Horizon2020 and Horizon Europe work programmes and evaluation criteria; good knowledge of Joint Programming Initiatives, EU Partnership and Life programme. Deep knowledge of EU regulation, and especially Italian laws, about human research, animal research and GDPR. I developed an intramural guidelines on ethics compliance, to help researchers from abroad who don't know Italian regulation. I developed, together with the UNIPD DPO, an intramural user-friendly annotated DPIA template useful both for social science research and clinical research.

- Grignaschi G., **Mantelli B.**, Samanin R. *The hypophagic effect of restrain stress in rats can be mediated by 5-HT<sub>2</sub> receptors in paraventricular nucleus of the hypothalamus.* *Neurosciences Letters*, 1993, 152:103-106
- Grignaschi G., **Mantelli B.**, Fracasso C., Anelli M., Caccia S., Samanin R. *Reciprocal interaction of 5-hydroxytryptamine and cholecystokinin in the control of feeding patterns in rats.* *Brain Journal of Pharmacology*, 1993, 109:491-493
- Biswas P., Mengozzi M., **Mantelli B.**, Delfanti F., Brambilla A., Vicenzi E., Poli G. *1,25-Dihydroxyvitamin D<sub>3</sub> upregulates functional CXCR4 human immunodeficiency virus type 1 coreceptors in U937 minus clone: NF- $\kappa$ B-independent enhancement of viral replication.* *Journal of Virology*, 1998, 72:8380-8383
- Bovolenta C., Lorini A., **Mantelli B.**, Camorali L., Novelli F., Biswas P., Poli G. *A selective defect of IFN $\gamma$ , but not of IFN- $\alpha$ , induced JAK/STAT pathway in a subset of U937 clones prevents the antiretroviral effect of IFN- $\gamma$  against HIV-1.* *Journal of Immunology*, 1999, 162:323-330
- Fortis C., Biswas P., Soldini L., Veglia F., Careddu A., Delfanti F., **Mantelli B.**, Murone M., Lazzarin A., Poli G. *Dual role of Tumor necrosis factor- $\alpha$  in natural killer/lymphokine activated killer cell-mediated lysis of chronically HIV infected U1 cells. Concomitant enhancement of HIV expression and sensitization to cell-mediated lysis.* *European Journal of Immunology*, 1999, 29:3654-3662
- Biswas P., **Mantelli B.**, Delfanti F., Cota M., Vallanti G., De Filippi C., Mengozzi M., Vicenzi E., Lazzarin A., Bukrinsky M., Poli G. *Tumor necrosis factor- $\alpha$  drives HIV-1 replication in U937 cell clones and upregulates CXCR4.* *Cytokine*, 2001, 13:55-59
- Alfano M., Vallanti G., Biswas P., Bovolenta C., Vicenzi E., **Mantelli B.**, Pushkarsky T., Rappuoli R., Lazzarin A., Bukrinsky M., Poli G. *The binding subunit of pertussis toxin inhibits HIV replication in human macrophages and virus expression in chronically infected promonocytic U1 cells.* *Journal of Immunology*, 2001, 166:1863-1870
- Kinter A. L., Biswas P., Alfano M., Justement J. S., **Mantelli B.**, Rizzi C., Gatti A. R., Vicenzi E., Bressler P., Poli G. *Interleukin-6 and glucocorticoids synergistically induce human immunodeficiency virus type 1 expression in chronically infected U1 cells by a long terminal repeat independent post-transcriptional mechanism.* *Molecular Medicine*, 2001, 7(10):668-679
- Biswas P., Ferrarini M., **Mantelli B.**, Fortis C., Lazzarin A., Poli G. *Double edged effect of V $\gamma$ 9-V $\delta$ 2 T lymphocytes on viral expression in an in vitro model of HIV-1/M. tuberculosis coinfection.* *European Journal of Immunology*, 2003, 33(1):252-263
- Biswas P., **Mantelli B.**, Sica A., Malnati M., Panzeri C., Sacconi A., Hasson H., Vecchi A., Saniabadi A., Lusso P., Lazzarin A., Beretta A. *Expression of CD4 on human peripheral blood neutrophils.* *Blood*, 2003, 101(11):4452-4456
- Biswas P., **Mantelli B.**, Delfanti F., Ferrarini M., Poli G., Lazzarin A. *CD30 ligation differentially affects CXCR4-dependent HIV-1 replication and soluble CD30 secretion in non-Hodgkin cell lines and in gamma delta T lymphocytes.* *European Journal of Immunology*, 2003, 33(11):3136-3145
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- Rizzoli A., Rosà R., **Mantelli B.**, Pecchioli E., Hauffe H., Tagliapietra V., Beninati T., Neteler M., Genchi C. *Ixodes ricinus, transmitted diseases and reservoirs.* *Parassitologia*, 2004, 46(1-2):119-122
- Barbesti S., Soldini L., Carcelain G., Guignet A., Colizzi V., **Mantelli B.**, Corvaglia A., Tran-Minh T., Dorigatti F., Aufran B., Lazzarin A., Beretta A. *A simplified flow cytometry method of CD4 and CD8 cell counting based on thermoresistant reagents: implication for large scale monitoring of HIV-infected patients in resource-limited settings.* *Cytometry B Clin Cytom*, 2005, 68(1):43-51
- Hasson H., Nozza S., **Mantelli B.**, Biswas P., Lazzarin A., and Beretta A. *A case of HIV-associated fever of unknown origin: deficit in IL-1 $\beta$  antagonist activity and resolution of fever episodes with monocyte-granulocyte cell apheresis.* *AIDS*, 2006, 20(2):312-313.
- Hasson H., **Mantelli B.**, Biswas P., Malnati M., Gianotti N., Vecchi A., Nozza S., Cernuschi M., Boeri E., Clerici M., Lazzarin A., Beretta A. *Favourable outcome of ex-vivo purging of monocytes on therapy reintroduction after interruption in HIV-1 infected multidrug resistant patients.* *Journal of Medical Virology*, 2007, 79:1640-9.
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- Zucal C., D'Agostino V., Casini A., **Mantelli B.**, Thongon N., Soncini D., Caffa I., Cea M., Ballestrero A., Quattrone A., Indraccolo S., Nencioni A., Provenzani A., *EIF2A-dependent translational arrest protects leukemia cells from the energetic stress induced by NAMPT inhibition*. BMC Cancer, 2015, 5(15):855
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I authorize the processing of my personal data present in my CV pursuant to Legislative Decree 30 June 2003, n. 196 "Personal data protection code" and the GDPR (EU Regulation 2016/679).

Data  
13/10/2023

Barbara Mantelli