

CURRICULUM VITAE

Name: Eduardo **Surname:** BONAVITA

Scopus Author ID: 35809920800

ResearcherID: P-4370-2014

EDUCATION

2015 - To date: Research fellow

Laboratory in Immunology and Inflammation; Humanitas Clinical and Research Center, Rozzano (Milan) ITALY

2015: PhD in Life and Biomolecular Sciences

Open University, Milton Keynes UK; Affiliated Research Centre Humanitas Clinical and Research Center, Rozzano (Milan) ITALY

2009: Degree and Master in Pharmaceutical Chemistry and Technology

University of Salerno, Fisciano, Italy.

PAST RESEARCH EXPERIENCE

2010: Laboratory Training

Laboratory Training as Master Student at Laboratory in Immunology and Inflammation; Humanitas Clinical and Research Center

2008-2009: Laboratory Training

Laboratory Training as undergraduate student at the Immuno-Pharmacology Laboratory in University of Salerno

TECHNICAL SKILLS

Molecular biology: PCR, Real-time PCR, RT-PCR, Nucleic acids purification, Mutagenesis, Cloning, Sequencing, Epigenetic analysis

Cellular biology: Purification of primary human and murine cells from blood and tissues, Culture of cell lines and primary cells, Production of recombinant proteins in eukaryotic cells, DNA transfection of cell lines, Cytofluorometry, Cytotoxicity assays, Degranulation assays.

Biochemistry: Western-blotting, Silver staining, Protein biotinylation, ELISA.

Mouse handling: Murine models of carcinogenesis (sarcoma, hepatocellular carcinoma, colorectal carcinoma, skin carcinoma); Orthotropic and heterotopic tumor cells transplantation; Murine models of infection (lung infection and urinary tract infection); Bone marrow transplantation and generation of chimeric mice. Experimental lung and liver metastasis; intraurethral, intravenous, intraperitoneal, intratracheal injections; blood collection from vena cava, retro orbital plexus, caudal veins; Liver and lung perfusion.

Microbiology: Culture of non-pathogenic and pathogenic strains, test of bacterial viability, test of bacterial motility, test of protein binding on microorganisms, Enumeration of bacterial burden in tissue homogenates

Other techniques: Immunohistochemistry; Immunofluorescence.

ORAL PRESENTATIONS and AWARDS

2015: 4th European congress of immunology (ECI). September 7th, Wien, Austria (Award for best oral presentation and Efis travel award winner)

2015: 8th International Conference on Complement Therapeutics. Chania, Greece (travel award winner)

2015: WIRM 2015. Davos, Switzerland (Award for best oral presentation)

2014: SIICA 2014 PhD student retreat. Bari, Italy (Award for best oral presentation)

- 2014: SIICA 2014. May 30th, Florence, Italy (oral presentation)
2014: Milan Meets Immunology. April 16th, Milan, Italy (oral presentation)
2013: International congress of immunology (ICI). August 26th, Milan, Italy (oral presentation)
2012: Keystone Symposia on Inflammation and Cancer. May 16th Dublin, Ireland (oral presentation)

PUBLICATIONS

- Bonavita E, Galdiero M R, Jaillon S, Mantovani A. *Phagocytes as Corrupted Policemen in Cancer-Related Inflammation*. **Adv Cancer Res** 2015. doi:10.1016/bs.acr.2015.04.013 **IF: 5.321**
- Bonavita E, Gentile S, Rubino M, Maina V, Papait R, Kunderfranco P, Greco C, Feruglio F, Molgora M, Laface I, Tartari S, Doni A, Pasqualini F, Barbati E, Basso G, Galdiero M R, Nebuloni M, Roncalli M, Colombo P, Laghi L, Lambris J D, Jaillon S, Garlanda C, Mantovani A. *PTX3 is an extrinsic oncosuppressor regulating complement-dependent inflammation in cancer*. **Cell** 2015. 160(4):700-14. **IF: 33.116**
- Jaillon S, Bonavita E, Gentile S, Rubino M, Laface I, Garlanda C, Mantovani A. *The Long Pentraxin PTX3 as a Key Component of Humoral Innate Immunity and a Candidate Diagnostic for Inflammatory Diseases*. **Int Arch Allergy Imm**.2014. 165(3):165-78. **IF: 2.433**
- Jaillon S, Moalli F, Ragnarsdottir B, Bonavita E, Riva F, Barbati E, Nebuloni M, Krajcinovic LC, Markotic A, Valentino S, Doni A, Tartari S, Graziani G, Montanelli A, Delneste Y, Svanborg C, Garlanda C, Mantovani A. *The humoral pattern recognition molecule PTX3 is a key component of innate immunity against urinary tract infection*. **Immunity** 2014. 140(4):621-32. **IF: 19.748**
- Garlanda C, Riva F, Bonavita E, Mantovani A. *Negative regulatory receptors of the IL-1 family*. **Semin Immunol** 2013. 25(6):408-15. **IF:6.214**
- Galdiero MR, Bonavita E, Barajon I, Garlanda C, Mantovani A, Jaillon S. *Tumor associated macrophages and neutrophils in cancer*. **Immunobiology** 2013. 218(11):1402-10. **IF: 3.180**
- Véliz Rodriguez T, Moalli F, Polentarutti N, Paroni M, Bonavita E, Anselmo A, Nebuloni M, Mantero S, Jaillon S, Bragonzi A, Mantovani A, Riva F, Garlanda C. *Role of Toll interleukin-1 receptor (IL-1R) 8, a negative regulator of IL-1R/Toll-like receptor signaling, in resistance to acute Pseudomonas aeruginosa lung infection*. **Infect Immun** 2012. 80(1):100-9. **IF: 4.156**
- Inforzato A, Jaillon S, Moalli F, Barbati E, Bonavita E, Bottazzi B, Mantovani A, Garlanda C. *The long pentraxin PTX3 at the crossroads between innate immunity and tissue remodelling*. **Tissue Antigens** 2011. 77(4):271-82. **IF: 2.350**
- Sorrentino R, Morello S, Luciano A, Crother TR, Maiolino P, Bonavita E, Arra C, Adcock IM, Arditi M, Pinto A. *Plasmacytoid dendritic cells alter the antitumor activity of CpG-oligodeoxynucleotides in a mouse model of lung carcinoma*. **J Immunol** 2010. 185(8):4641-50. **IF: 5.362**
- Sorrentino R, Morello S, Chen S, Bonavita E, Pinto A. *The activation of liver X receptors inhibits toll-like receptor-9-induced foam cell formation*. **J Cell Physiol** 2010. 223(1):158-67. **IF: 3.874**