Chiara Borsotti

Curriculum vitae

CURRENT POSITION

May 2017 - Present	Research Assistant Professor (fixed-term) in Histology – Department of Health Sciences , Università del Piemonte Orientale, Italy

CURRICULUM VITAE ET STUDIORUM

Education

October 2011: PhD in Molecular Medicine – Basic and Applied Immunology - Università Vita-Salute San Raffaele, Milan (Italy).

July 2001: *Laurea Magistrale* (MSc) in Medical Biotechnology, Università degli Studi di Milano, Milan (Italy).

Research experience

July 2016 – April 2017: Postdoctoral fellow in the Histology Laboratory (Prof. Antonia Follenzi) at the Health Sciences Department - Università degli Studi del Piemonte Orientale "A. Avogadro", Novara (Italy)

June 2012 – June 2017: Postdoctoral Research Scientist at the Columbia Center for Translational Immonology (CCTI) (Prof. Megan Sykes) - Columbia University, New York (USA).

January 2007 – April 2011: PhD student at the Institute of Research in Biomedicine (IRB), Bellinzona (Switzerland), with the supervision of Prof. Markus Manz and Prof. Antonio Lanzavecchia. One year was held at the Immunobiology Department (Prof. Richard Flavell) - Yale University, New Haven (USA).

January 2005 – December 2006: Research Assistant at the Memorial Sloan-Kettering Cancer Center (MSKCC) - New York (USA) with Dr. Marcel van den Brink.

September 2001 – December 2004: Research assistant at Fondazione Matarelli (Dr Davide Soligo) – Milano (Italy)

September 1999 – July 2001: Undergraduate student at Fondazione Matarelli (Prof. Giorgio Lambertenghi) – Milano (Italy).

MAIN FIELDS OF INTEREST

1. Hemophilia A
2. Cell and gene therapy
3. Adaptive immune response

CURRENT ISSUES OF RESEARCH

My main project focuses on the identification of cells and mechanisms involved in the immune responses to factor VIII in the treatment of haemophilia A with the aim to induce its tolerance.

TOP FIVE PAPERS

1. Olgasi C*, **Borsotti C***, Merlin S*, Bergmann T, Bittorf P, Adewoye AB, Wragg N, Patterson K, Calabria A, Benedicenti F, Cucci A, Borchiellini A, Pollio B, Montini E, Mazzuca DM, Zierau M, Stolzing A, Toleikis PM, Braspenning J, Follenzi A. *Co-first Author. Efficient and safe correction of hemophilia A by lentiviral vector-transduced BOECs in an implantable device. *Mol Ther Methods Clin Dev*. 2021 Nov 3; 23:551-566
2. **Borsotti C,** Danzl NM, Nauman G, Hölzl MA, French C, Chavez E, Maharlooei MK, Glauzy S, Delmotte FR, Meffre E, Savage DG, Campbell S, Goland R, Greenberg E, Bi J, Satwani P, Yang S, Bathon J, Winchester R, Sykes M. HSC-extrinsic sex- and intrinsic autoimmune disease-related human B cell variation is recapitulated in humanized mice. *Blood Advances*. 2017 Oct 13
3. **Borsotti C**, Borroni E, Follenzi A. Lentiviral vector interactions with the host cell. *Curr Opin Virol.* 2016 Dec;21:102-108. Review
4. Meek B, Cloosen S, **Borsotti C**, Van Elssen C, Vanderlocht J, Schnijderberg M, van der Poel M, Leewis B, Hasselink R, Manz MG, Katsura Y, Kawamoto H, Germeraad WTV, Bos GMJ. In vitro differentiated T/NK cell progenitors derived from human $CD34^+$ cells mature in the thymus. *Blood*. 2010 Jan 14;115(2):261-4.
5. **Borsotti C**, Franklin AR, Lu SX, Kim TD, Smith OM, Suh D, King CG, Chow A, Liu C, Alpdogan O, van den Brink MR. Absence of donor T cell derived soluble TNF decreases graft-versus-host-disease without impairing graft-versus-tumor activity. *Blood*. 2007 Jul 15; 110(2): 783-6.