

## Curriculum vitae

**Fullname:** ROBERTA BORTOLOZZI

**Date of birth:** 10<sup>th</sup> January 1985

**Place of birth:** Venice, Italy

**Citizenship:** Italian

**Work address:** Dipartimento Salute della Donna e del Bambino, Università di Padova, Istituto di Ricerca Pediatrica Città della Speranza, Corso Stati Uniti 4, 35128 Padova, Italy

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### Education

**March 2012 - PhD in Hematooncology, Immunology and Genetics:** PhD program at the Department of Pediatrics –Hematooncology Section- of the University of Padua under the supervision of Prof. Giuseppe Basso.

**21<sup>th</sup> October 2008 - Master Degree in Medical Biotechnology:** achieved at the University of Padua, with the mark of 110/110. The title of the experimental thesis was: "Evaluation of biomarkers for the diagnosis of Amyotrophic Lateral Sclerosis." Thesis work was performed at the Department of Neuroscience -Neurology Section- of the University of Padua in the lab of Prof. Corrado Angelini.

**25<sup>th</sup> July 2006 - Bachelor Degree in Biotechnology:** achieved at the University of Padua, with the mark of 110/110 cum laude. The title of the experimental thesis was: "Screening of genetic mutations by DHPLC in DSC2 gene in 10 patients affected by *Arrhythmogenic Right Ventricular Dysplasia*". Thesis work was performed at the Department of Biology -Genetics Section- of the University of Padua in the lab of Prof. Gianantonio Danieli under the supervision of Dr. Alessandra Rampazzo.

### Research experience

**From January 2012 to now:** Post Doc in Prof. Giuseppe Basso's laboratory, University of Padua, Department of Woman's and Child's Health. The research is focused on the study of recurrence and drug resistance of acute lymphoblastic leukemia.

**From October 2008 to December 2011:** PhD Candidate in Hematooncology, Immunology and genetics in Prof. Giuseppe Basso's laboratory, University of Padua, Department of Pediatrics. The research was focused on the study of the effects of new molecules with antitumoral activity on cell death and proliferation.

**From March 2008 to October 2008:** Graduated student in Prof. Corrado Angelini's Laboratory at the Department of Neuroscience –Neurology Section- of the University of Padua. Research focused on molecular characterization of Amyotrophic Lateral Sclerosis and the study of new diagnostic markers.

**From March 2006 to May 2006:** Ungraduate student in Prof. Gianantonio Danieli's Laboratory at the Department of Biology – Genetics Section - of the University of Padua. Study of DSC2 gene as a candidate gene for Arrhythmogenic Right Ventricular Dysplasia.

### Technical Skills

- Molecular biology: Western blot analysis; nucleic acids extraction; PCR; cloning; bacterial transformation; enzyme digestion; gel electrophoresis; SSCP.
- Cellular biology: basic cell culture techniques; proliferation and cell death assays; primary cells deriving and culture from bone marrow, human umbilical vein, skin.
- Flow cytometry and cell sorting.
- Tissue processing and slides preparation: immunofluorescence techniques with confocal microscopy and immunohistochemistry.

## **Patents**

"Derivati fenil-pirrolochinolinonici e loro uso" G. Basso, R. Bortolozzi, M.G. Ferlin, S. Moro, G. VIOLA Italian Patent application N. PD2013A000211, registered 29/07/2013.

"Inhibidores polares simetricos de colina cinasa con actividad antitumoral" Entrena Guadix Antonio José, Lopez Cara Luisa Carlota, Espinosa Ubeda Antonio, Schiaffino Ortega Santiago, Marco de la Calle Carmen, Carrasco Jimenez Maria Paz, VIOLA Giampietro, Bortolozzi Roberta, Basso Giuseppe. Spanish patent application N. ES201400466, registered 05/06/2014.

## **Bibliometrical Information**

**Citations:** 215

**H-index:** 8

**i10-index:** 5

## **Relevant Publications**

Bortolozzi R, Gradowski Sv, Ihmels H, Schäfer K, Viola G.  
*Selective ratiometric detection of H<sub>2</sub>O<sub>2</sub> in water and in living cells with boronobenzo[b]quinolizinium derivatives.*  
Chem Commun (Camb). 2014 Jul 1;50(60):8242-5. doi: 10.1039/c4cc02283a.

Romagnoli R, Baraldi PG, Lopez-Cara C, Preti D, Aghazadeh Tabrizi M, Balzarini J, Bassetto M, Brancale A, Fu XH, Gao Y, Li J, Zhang SZ, Hamel E, Bortolozzi R, Basso G, Viola G.  
*Concise synthesis and biological evaluation of 2-Aroyl-5-amino benzo[b]thiophene derivatives as a novel class of potent antimitotic agents.*  
J Med Chem. 2013 Nov 27;56(22):9296-309. doi: 10.1021/jm4013938.

Ferlin MG, Carta D, Bortolozzi R, Ghodsi R, Chimento A, Pezzi V, Moro S, Hanke N, Hartmann RW, Basso G, Viola G.  
*Design, synthesis and SARs of azolymethyl-pyrroloquinolines as non steroidal aromatase inhibitors.*  
J Med Chem. 2013 Sep; in press.

Ausserlechner MJ, Salvador C, Deutschmann A, Bodner M, Viola G, Bortolozzi R, Basso G, Hagenbuchner J, Obexer P.  
*Therapy-resistant acute lymphoblastic leukemia (ALL) cells inactivate FOXO3 to escape apoptosis induction by TRAIL and Noxa.*  
Oncotarget. 2013 Jul;4(7):995-1007.

Bortolozzi R, Ihmels H, Thomas L, Tian M, Viola G.  
*9-(4-Dimethylaminophenyl)benzo[b]quinolizinium: a near-infrared fluorophore for the multicolor analysis of proteins and nucleic acids in living cells.*  
Chemistry. 2013 Jul 1;19(27):8736-41.

Porcù E, Viola G, Bortolozzi R, Persano L, Mitola S, Ronca R, Presta M, Romagnoli R, Baraldi PG, Basso G.  
*TR-644 a novel potent tubulin binding agent induces impairment of endothelial cells function and inhibits angiogenesis.*  
Angiogenesis. 2013 Jul;16(3):647-62.

Romagnoli R, Baraldi PG, Salvador MK, Preti D, Tabrizi MA, Brancale A, Fu XH, Li J, Zhang SZ, Hamel E, Basso G, Bortolozzi R, and Viola G.  
*Synthesis and Evaluation of 1,5-Disubstituted Tetrazoles as Rigid Analogues of Combretastatin A-4 with Potent Antiproliferative and Antitumor Activity.*  
J. Med. Chem. 2012 Jan 12; 55(1):475-88.

Viola G, Bortolozzi R, Hamel E, Moro S, Brun P, Castagliuolo I, Ferlin MG, Basso G. *MG-2477, a new tubulin inhibitor, induces autophagy through inhibition of the Akt/mTOR pathway and delayed apoptosis in A549 cells.* Biochem Pharmacol. 2012 Jan 1; 83(1):16-26.

Romagnoli R, Baraldi PG, Brancale A, Ricci A, Hamel E, Bortolozzi R, Basso G, Viola G. *Convergent synthesis and biological evaluation of 2-amino-4-(3',4',5'-trimethoxyphenyl)-5-aryl thiazoles as microtubule targeting agents.* J. Med Chem. 2011 Jul 28; 54(14):5144-53.

Romagnoli R, Baraldi PG, Cruz-Lopez O, Lopez Cara C, Carrion MD, Brancale A, Hamel E, Chen L, Bortolozzi R, Basso G, Viola G. *Synthesis and antitumor activity of 1,5-disubstituted 1,2,4-triazoles as cis-restricted combretastatin analogues.* J Med Chem. 2010 May 27; 53(10):4248-58.