

BIOGRAPHICAL SKETCH

NAME Alessandra Balduini, MD	POSITION TITLE Associate Professor, University of Pavia
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EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Pavia, Pavia, Italy	MD	1988-1994	Medicine
Université Joseph Fourier, Grenoble, France	Extèrne des Hôpitaux	1993	Medicine
University of Indiana, Indianapolis, USA	Post-doc	1994-1996	Stem Cell Biology
University of Pavia, Pavia, Italy	Specialization	1996-2000	Clinical Biochemistry
IUSS-SAFI, University of Pavia, Pavia, Italy	M.S.	1998-2000	Art and Science

A. PERSONAL STATEMENT

I have a specific training and experience in research of stem cell and megakaryocyte biology, as well as in the clinical aspects of the diseases related to platelets and clotting processes. My research focuses on how the different components of the bone marrow microenvironment regulate platelet production.

B. POSITIONS**Positions and Employment**

2001-2005: Staff Physician, Clinical Biochemistry Laboratory - IRCCS Policlinico San Matteo Foundation, Pavia, Italy.

2001- 2011: Assistant Professor of Medicine, Department of Biochemistry-University of Pavia, Italy.

2009-2014: Research Assistant Professor, Department of Biomedical Engineering, Tufts University, Boston, USA.

2011-present: Associate Professor, Department of Molecular Medicine, University of Pavia, Italy.

2014-present: Research Associate Professor, Department of Biomedical Engineering, Tufts University, Boston, USA.

Other Experience and Professional Memberships

2005-2006: Visiting Professor, Dana Farber Cancer Institute-Harvard Medical School, Boston, USA

2007-2009: Visiting Scientist, Department of Biomedical Engineering, Tufts University, Boston, USA.

2011: Visiting Professor, Universidad de Buenos Aires, Buenos Aires, Argentina

2007-present: member of the International Society of Thrombosis and Hemostasis (ISTH)

2007-present: member of the American Society of Hematology (ASH)

2007-present: member of the Gruppo Italiano Studio Piastrine (GSP)

2007-present: member of the Società Italiana di Biochimica (SIB)

2014-present: member of the European Hematology Association (EHA)

C. SELECTED PUBLICATIONS

1. Badalucco S, Di Buduo CA, Campanelli R, Pallotta I, Catarsi P, Rosti V, Kaplan DL, Barosi G, Massa M, Balduini A. Involvement of TGF β 1 in autocrine regulation of proplatelet formation in healthy subjects and patients with primary myelofibrosis. (2013) *Haematologica* 98(4):514-7.
2. Di Buduo C, Moccia F, Battiston M, De Marco L, Mazzucato M, Moratti R, Tanzi F, Balduini A. The importance of calcium in the regulation of megakaryocyte function. (2014) *Haematologica* 99(4):769-78.
3. Bluteau D, Balduini A, Balayn N, Currao M, Nurden P, Deswarte C, Leverger G, Noris P, Perrotta S, Solary E, Vainchenker W, Debili N, Favier R, Raslova H. Thrombocytopenia-

associated mutations in the ANKRD26 regulatory region induce MAPK hyperactivation. (2014) **J Clin Invest.** 124(2):580-91.

4. Di Buduo CA, Wray LS, Tozzi L, Malara A, Chen Y, Ghezzi CE, Smoot D, Sfara C, Antonelli A, Spedden E, Bruni G, Staii C, De Marco L, Magnani M, Kaplan DL, Balduini A. Programmable 3D silk bone marrow niche for platelet generation ex vivo and modeling of megakaryopoiesis pathologies. (2015) **Blood** Apr 2;125(14):2254-64.
5. Abbonante V, Di Buduo C, Gruppi C, Malara A, Gianelli U, Celesti G, Anselmo A, Laghi L, Moratti R, Barosi G, Rosti V, Balduini A. Thrombopoietin/TGF- β 1 loop boosts extracellular matrix component production by megakaryocytes: implication in physiological and pathological niche homeostasis. (2016) **Stem Cells** [Epub ahead of print]