- PERSONAL DATA

Surname: **Di Buduo**
Name: **Christian Andrea**
Date and place of birth: 12/02/1985, Pavia, Italy
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- EDUCATION

2013: Ph.D. in Biochemistry, Department of Molecular Medicine, University of Pavia, Italy
2009: Master Degree in Medical and Pharmaceutical Biotechnology, University of Pavia, Italy
2007: Bachelor Degree in Biotechnology, University of Pavia, Italy

- APPOINTMENTS

2013-present: Post-Doctoral fellow, Department of Molecular Medicine, Biotechnology Research Laboratories, IRCCS San Matteo Foundation, University of Pavia, Italy.
03/2011-05/2011: Visiting Ph.D. student at TUFTS University, Department of Bioengineering, Medford, Massachusetts, USA.
11/2009-01/2013: Ph.D. fellow, Department of Biochemistry, University of Pavia, Italy.

- SCIENTIFIC ACTIVITY

Christian Andrea Di Buduo, is a Post-Doc whose research focus on the study of the mechanisms that control megakaryocyte differentiation and of the signals that initiate and regulate platelet formation. Particularly, he is interested in unrevealing how different autocrine signals and ion flows integrate to promote platelet release in physiologic conditions. Finally, he is involved in different projects trying to understand the pathogenesis of diseases characterized by impaired megakaryocyte differentiation and platelet production (i.e. myeloproliferative disorders, inherited thrombocytopenias) by using liquid and 3D culture systems.

- SELECTED PUBBLICATIONS

- Abbonante V*, **Di Buduo CA***, Gruppi C, Malara A, Gianelli U, Celesti G, Anselmo A, Laghi L, Vercellino M, Visai L, Iurlo A, Moratti R, Barosi G, Rosti V, Balduini A. Thrombopoietin/TGF-β1 loop regulates megakaryocyte extracellular matrix component synthesis. *Stem Cells* 2016. [Epub ahead of print].

- Currao M, Malara A, **Di Buduo CA**, Abbonante V, Tozzi L, Balduini A. Hyaluronan based hydrogels provide an improved model to study megakaryocyte-matrix interactions. *Exp Cell Res* 2015. [Epub ahead of print].

- **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. *Blood* 2015;125(14):2254-64.

- Malara A, Abbonante V, **Di Buduo CA**, Tozzi L, Currao M, Balduini A. The secret life of a megakaryocyte: emerging roles in bone marrow homeostasis control. *Cell Mol Life Sci* 2015;72(8):1517-36.

- **Di Buduo CA**, Wray LS, Tozzi L, Malara A, Chen Y, Ghezzi CE *et al*. Programmable 3D silk bone marrow niche for platelet generation ex vivo and modeling of megakaryopoiesis pathologies. *Blood* 2015;125(14):2254-64.

- **Di Buduo CA**, Moccia F, Battiston M, De Marco L, Mazzucato M, Moratti R *et al*. The importance of calcium in the regulation of megakaryocytes function. *Haematologica* 2014, 99(4):769-78.

- Badalucco S*, **Di Buduo CA***, Campanelli R, Pallotta I, Catarsi P, Rosti V *et al*. Involvement of TGFβ1 in autocrine regulation of proplatelet formation in healthy subjects and patients with primary myelofibrosis. *Haematologica* 2013;98(4):514-7.