

Alessandra Bertoni
Currimum Vitae

Department of Translational Medicine
Università del Piemonte Orientale
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Education:

PhD in Biochemistry (Feb 2005)

University of Pavia, Dept. of Biochemistry, Pavia, Italy;
Supervisor: Prof. Cesare Balduini

"Study of the role of the small GTPase Rap1b in the inside-out signaling to α IIb β 3 integrin"

Specialization in Biochemistry and Clinical Chemistry (Oct 2000)

University of Pavia, Dept. of Biochemistry, Pavia, Italy;
Supervisor: Prof. Cesare Balduini

"Study of the association mechanisms to the cytoskelton of the GTP-binding protein rap2 during platelet activation"

Master Degree in Biological Sciences (July 1995)

University of Pavia, Dept. of Biochemistry;
Supervisor: Prof. Cesare Balduini and Prof Mauro Torti
"Role of lysophosphatidic acid in platelet activation"

Appointements:

2004-present Assistant Professor of Biochemistry, Dept. of Translational Medicine, University of Piemonte Orientale, Novara, Italy.

Mar 2003-Dic 2003 Research Scientist Laboratory of Professors Cesare Balduini and Mauro Torti, Dept. of Biochemistry, University of Pavia

Nov 2001-Oct 2004 PhD candidate Laboratory of Biochemistry, Dept. of Biochemistry , University of Pavia.

May 2000-Feb 2003 Research Scientist Laboratory of Professor Sanford J Shattil, Dept. of Cell Biology, The Scripps Research Institue La Jolla CA USA

Sept 1996-Apr 2000 Research Scientist Laboratory of Professors Cesare Balduini and Mauro Torti, Dept. of Biochemistry, University of Pavia

Research Interest

The main scientific interests of Alessandra Bertoni concerns 1- the mechanisms of megakaryocyte differentiation and platelet production, in particular the role of endocannabinoids, estrogens and

diacylglycerol kinase in such processes using primary cells. 2-the mechanisms of platelet activation and aggregation triggered by endocannabinoids and arachidonic acid. 3- the regulation of platelet function by estrogens, phytoestrogens and the estrogen precursor dehydroepiandrosterone. 4- the role of diacylglycerol kinase in platelet function.

Selected publication

Carotenuto F, Minieri M, Monego G, Fiaccavento R, **Bertoni A**, Sinigaglia F, Vecchini A, Carosella L, Di Nardo P.

A diet supplemented with ALA-rich flaxseed prevents cardiomyocyte apoptosis by regulating caveolin-3 expression.

Cardiovasc Res. 2013;100:422-31

De Luca G, Verdoia M, Cassetti E, Schaffer A, Di Giovine G, **Bertoni A**, Di Vito C, Sampietro S, Aimaretti G, Bellomo G, Marino P, Sinigaglia F; Novara Atherosclerosis Study (NAS) group. Mean platelet volume is not associated with platelet reactivity and the extent of coronary artery disease in diabetic patients.

Blood Coagul Fibrinolysis. 2013;24:619-24

Di Vito C*, **Bertoni A***, Nalin M, Sampietro S, Zanfa M, Sinigaglia F.

The phytoestrogen 8-prenylnaringenin inhibits agonist-dependent activation of human platelets.

Biochim Biophys Acta. 2012,1820:1724-33.

* co-authorship

Bertoni A, Rastoldo A, Sarasso C, Di Vito C, Sampietro S, Nalin M, Bagarotti A, Sinigaglia F. Dehydroepiandrosterone-sulfate inhibits thrombin-induced platelet aggregation.

Steroids 2012, 77:260-8.

Catani M, Gasperi V, Baldassarri S, **Bertoni A**, Sinigaglia F, Avigliano L, Maccarrone M.

Human Platelets Express Authentic CB(1) and CB(2) Receptors.

Curr Neurovasc Res. 2010;7:311-8.

Di Vito C, Bergante S, Balduini A, Rastoldo A, Bagarotti A, Surico N, **Bertoni A**, Sinigaglia F. The oestrogen receptor GPR30 is expressed in human haematopoietic stem cells but not in mature megakaryocytes

Br J Haematol 2010;149:150-153

Catani MV, Fezza F, Baldassarri S, Gasperi Valeria, **Bertoni A**, Pasquariello N, Finazzi- Agrò A, Sinigaglia F, Avigliano L, Maccarrone M

Expression of the endocannabinoid system in the bi-potential HEL cell line: commitment to the megakaryoblastic lineage by 2-arachidonoylglycerol

J Mol Med. 2009;87:65-74