

Gianluca Baldanzi

Curriculum vitae

PERSONAL DATA

Born in Livorno 12.08.1974

+39 0321660527

gianluca.baldanzi@med.uniupo.it

UNIVERSITY CAREER

2016-	Adjunct Professor, Università del Piemonte Orientale
2008-216	Researcher, Università del Piemonte Orientale
2007-2008	Fellow, Università del Piemonte Orientale
2004-2007	Biologist, Parco scientifico E. Menni, Brescia
1998-2004	Fellow, Università di Torino

UNIVERSITY POSITIONS

2014-	Vice-president, Biotechnology program, Università del Piemonte Orientale
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SCIENTIFIC POSITIONS

2010-	Member Società Italiana di Biochimica
2011-	Member Associazione Biologia Cellulare e Differenziamento

MAIN FIELDS OF INTEREST

1. Signal transduction
2. Lipid metabolism
3. IMMUNITY

CURRENT ISSUES OF RESEARCH

1. Phosphatidic acid regulated proteins downstream to DGK α

Involvement of DGK α regulated proteins such as PKC ζ and MLCK in migration, invasion and polarity of normal and transformed epithelial cells.

2. The SAP/SH2D1A gene, DGK α and XLP-1 disease

Investigating the involvement of DGK α in T lymphocyte signalling and its regulation by SAP.

3. Role of DGK α in cell transformation promoted by v-Src and NPM-ALK

In vitro evaluation of DGK α as a possible pharmaceutical target for the control of tumor cell growth and dissemination promoted by oncogenic tyrosine kinases.

4. Signalling pathways promoting hepatocyte survival in preconditioned liver

Investigating the activation of intracellular mediators such as PI3K, DGK θ and Src upon adenosine and glycine release during preconditioning.

5. Study of the biochemical and molecular proprieties of DGK α and its interaction with Src oncogene

Study of Src mediated DGK α regulation by growth factors such as HGF and VEGF and determination of DGK α requirement for the angiogenic process in vitro.

6. Study of the anti-apoptotic and pro-differentiative proprieties of the new hormone Ghrelin and its synthetic derivates.

Demonstrating that ghrelin and des-acyl ghrelin exert anti-apoptotic and pro-differentiative effects on endothelial and muscular cells.

CURRENT FUNDED PROJECTS

PROGRAMME	FUNDED PROJECT
TIPSO	INNOVATIVE THERAPIES FOR PSORIASIS
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TOP FIVE PAPERS

1: Ruffo E, Malacarne V, Larsen SE, Das R, Patrussi L, Wülfing C, Biskup C, Kapnick SM, Verbist K, Tedrick P, Schwartzberg PL, Baldari CT, Rubio I, Nichols KE, Snow AL, Baldanzi G, Graziani A. Inhibition of diacylglycerol kinase α restores restimulation-induced cell death and reduces immunopathology in XLP-1. *Sci Transl Med*. 2016 Jan 13;8(321):321ra7. doi: 10.1126/scitranslmed.aad1565. PubMed PMID: 26764158.

2: Rainero E, Cianflone C, Porporato PE, Chianale F, Malacarne V, Bettio V, Ruffo E, Ferrara M, Benecchia F, Capello D, Paster W, Locatelli I, Bertoni A, Filigheddu N, Sinigaglia F, Norman JC, Baldanzi G, Graziani A. The diacylglycerol kinase α /atypical PKC/ β 1 integrin pathway in SDF-1 α mammary carcinoma invasiveness. *PLoS One*. 2014 Jun 2;9(6):e97144. doi: 10.1371/journal.pone.0097144. eCollection 2014. PubMed PMID: 24887021; PubMed Central PMCID: PMC4041662.

3: Baldanzi G, Pighini A, Bettio V, Rainero E, Traini S, Chianale F, Porporato PE, Filigheddu N, Mesturini R, Song S, Schweighoffer T, Patrussi L, Baldari CT, Zhong XP, van Blitterswijk WJ, Sinigaglia F, Nichols KE, Rubio I, Parolini O, Graziani A. SAP-mediated inhibition of diacylglycerol kinase α regulates TCR-induced

diacylglycerol signaling. *J Immunol.* 2011 Dec 1;187(11):5941-51. doi: 10.4049/jimmunol.1002476. Epub 2011 Nov 2. PubMed PMID: 22048771; PubMed Central PMCID: PMC3221890.

4: Baldanzi G, Alchera E, Imarisio C, Gaggianesi M, Dal Ponte C, Nitti M, Domenicotti C, van Blitterswijk WJ, Albano E, Graziani A, Carini R. Negative regulation of diacylglycerol kinase theta mediates adenosine-dependent hepatocyte preconditioning. *Cell Death Differ.* 2010 Jun;17(6):1059-68. doi:10.1038/cdd.2009.210. Epub 2010 Jan 8. PubMed PMID: 20057501.

5: Baldanzi G, Filigheddu N, Cutrupi S, Catapano F, Bonisconi S, Fubini A, Malan D, Baj G, Granata R, Broglio F, Papotti M, Surico N, Bussolino F, Isgaard J, Deghenghi R, Sinigaglia F, Prat M, Muccioli G, Ghigo E, Graziani A. Ghrelin and des-acyl ghrelin inhibit cell death in cardiomyocytes and endothelial cells through ERK1/2 and PI 3-kinase/AKT. *J Cell Biol.* 2002 Dec 23;159(6):1029-37. Epub 2002 Dec 16. PubMed PMID: 12486113; PubMed Central PMCID: PMC2173981.

FURTHER INFORMATION

<http://orcid.org/0000-0002-1370-9903>