

Contributions to Science

From 2006 to present, Dr. Piazzì has co-authored 35 publications in peer reviewed journals, with an official overall h-index (JCR): 15.

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1. **Piazzì M**, Bavelloni A, Faenza I, Blalock W. Glycogen synthase kinase (GSK)-3 and the double-strand RNA-dependent kinase, PKR: When two kinases for the common good turn bad. *Biochim Biophys Acta Mol Cell Res.* 2020; Jun 5;1867(10):118769.
2. **Piazzì M**, Bavelloni A, Gallo A, Blalock WL. AKT-Dependent Phosphorylation of ADAR1p110 and ADAR2 Represents a New and Important Link Between Cell Signaling and RNA Editing. *DNA Cell Biol.* 2020;10.1089/dna.2020.5351. doi:10.1089/dna.2020.5351.
3. **Piazzì M**, Bavelloni A, Greco S, Focaccia E, Orsini A, Benini S, Gambarotti M, Faenza I and Blalock WL. Expression of the double-stranded RNA-dependent kinase PKR influences osteosarcoma attachment independent growth, migration, and invasion. *J Cell Physiol.* 2020;235(2):1103–1119. doi:10.1002/jcp.29024.
4. **Piazzì M**, Bavelloni A, Gallo A, Faenza I, Blalock WL. Signal Transduction in Ribosome Biogenesis: A Recipe to Avoid Disaster. *Int J Mol Sci.* 2019;20(11):2718. Published 2019 Jun 3. doi:10.3390/ijms20112718.
5. Bavelloni A, Focaccia E, **Piazzì M (first co-author)**, et al. AKT-dependent phosphorylation of the adenosine deaminases ADAR-1 and -2 inhibits deaminase activity. *FASEB J.* 2019;33(8):9044–9061. doi:10.1096/fj.201800490RR.
6. Bavelloni A, Focaccia E, Piazzì M, et al. Therapeutic potential of nvp-bkm120 in human osteosarcomas cells. *J Cell Physiol.* 2019;234(7):10907–10917. doi:10.1002/jcp.27911.
7. Bavelloni A, Ramazzotti G, Poli A, **Piazzì M**, Focaccia E, Blalock W, Faenza I. MiRNA210: a current overview. *Anticancer Res.* 2017 Dec;37(12):6511-21. PMID:29187425.
8. Bavelloni A, Focaccia E, **Piazzì M**, Errani C, Blalock W, Faenza I. Cell Cycle Arrest and Apoptosis Induced by Kinamycin F in Human Osteosarcoma Cells. *Anticancer Res.* 2017;37(8):4103–4109. doi:10.21873/anticancer.11797.
9. Ramazzotti G, Bavelloni A, Blalock W, **Piazzì M**, Cocco L, Faenza I. BMP-2 Induced Expression of PLCβ1 That is a Positive Regulator of Osteoblast Differentiation. *J Cell Physiol.* 2016;231(3):623–629. doi:10.1002/jcp.25107.
10. **Piazzì M (first and corresponding author)**, Williamson A, Lee CF, Pearson S, Lacaud G, Kouskoff V, McCubrey JA, Cocco L, Whetton AD. Quantitative phosphoproteome analysis of embryonic stem cell differentiation toward blood. *Oncotarget.* 2015 May 10;6(13):10924-39.
11. Bavelloni A, **Piazzì M**, Raffini M, Faenza I, Blalock WL. Prohibitin 2: At a communications crossroads. *IUBMB Life.* 2015 Apr;67(4):239-54. doi: 10.1002/iub.1366. IF:2.653.
12. Bavelloni A, Dmitrienko GI, Goodfellow VJ, Ghavami A, **Piazzì M**, Blalock W, Chiarini F, Cocco L, Faenza I. PLCβ1a and PLCβ1b selective regulation and cyclin D3 modulation reduced by Kinamycin F during K562 cell differentiation. *J Cell Physiol.* 2015;230(3):587-94. doi: 10.1002/jcp.24776.
13. **Piazzì M (first and corresponding author)**, Blalock WL, Bavelloni A, Faenza I, Raffini M, Tagliavini F, Manzoli L, Cocco L. PI-PLCβ1b affects Akt activation, cyclin E expression, and caspase cleavage, promoting cell survival in pro-B-lymphoblastic cells exposed to oxidative stress. *FASEB J.* 2015 Apr;29(4):1383-94.
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- granulocytic and monocytic differentiation of AML-derived cells. *Biochem J.* 2014; 463(1):115-22. PMID: 25005557.
15. Bavelloni A, **Piazzini M (co-first author)**, Faenza I, Raffini M, D'Angelo A, Cattini L, Cocco L, Blalock WL. Prohibitin 2 represents a novel nuclear AKT substrate during all-trans retinoic acid-induced differentiation of acute promyelocytic leukemia cells. *FASEB J.* 2014; 28(5):2009-19. PMID:24522204.
 16. Blalock WL, **Piazzini M (co-first author)**, Bavelloni A, Raffini M, Faenza I, D'Angelo A, Cocco L. Identification of the PKR Nuclear Interactome Reveals Roles in Ribosome Biogenesis, mRNA Processing and Cell Division. *J Cell Physiol.* 2013 Dec 18. doi: 10.1002/jcp.24529.
 17. Brugnoli F, Grassilli S, **Piazzini M**, Palomba M, Nika E, Bavelloni A, Capitani S, Bertagnolo V. In triple negative breast tumor cells, PLC- β 2 promotes the conversion of CD133^{high} to CD133^{low} phenotype and reduces the CD133-related invasiveness. *Mol Cancer.* 2013 Dec 13;12:165. doi: 10.1186/1476-4598-12-165.
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 20. **Piazzini M**, Blalock WL, Bavelloni A, Faenza I, D'Angelo A, Maraldi NM, Cocco L. Phosphoinositide-specific phospholipase C β 1b (PI-PLC β 1b) interactome: affinity purification-mass spectrometry analysis of PI-PLC β 1b association with nuclear proteins. *Mol Cell Proteomics.* 2013 Aug;12(8):2220-35. doi: 10.1074/mcp.M113.029686.
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Conference Proceedings

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2. **M. Piazzzi**. “Identification of nuclear PKR Interactome in acute Leukemia reveals a central Role for PKR in ribosome biogenesis, mRNA processing, gene expression and cell division”. *J Proteomics Bioinform*, 2013:6.7. <http://dx.doi.org/10.4172/0974-276X.S1.067>. IF: 2.15.
3. **M. Piazzzi**, A. Bavelloni, W. Blalock, R. Fiume, A. D’Angelo, A. Matteucci, L. Cocco, I. Faenza. “Nuclear phospholipase Cβ1 interactome: a morphological and proteomic approach”. *Italian Journal of Anatomy and Embryology*, Firenze University Press, 2012, Vol. 117(2).
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9. **M. Piazzzi**, A. Bavelloni, G. Cioffi, I. Faenza, S. D’Aguanno, A. Urbani, N.M. Maraldi and L. Cocco. “Nuclear PLC beta 1 signaling: EEF1a2 is a novel phosphosubstrate of PKC beta 1 in myoblast”. *Proceedings and Report of the 3th ItPA Annual National Conference*, 2008, P-Med33.

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