

Laura Zannini

List of Publications

Publications in peer-review international scientific journals:

1. Magni M., Buscemi G., Maita L., Peng L., Chan S.Y., Mointecuccio A., Delia D. and **Zannini L.** TSPYL2 is a novel regulator of SIRT1 and p300 activity in response to DNA damage. **Cell Death and Differentiation**. 26(5):918-931 (2019)
2. Magni M., Buscemi G., **Zannini L.** Cell cycle and apoptosis regulator 2 at the interface between DNA damage response and cell physiology. **Mutation research-Reviews in mutation research**. 776:1-9 (2018)
3. Restelli M., Magni M., Ruscica V., Pincioli P., De Cecco L., Buscemi G., Delia D. and **Zannini L.** A novel crosstalk between CCAR2 and AKT pathway in the regulation of cancer cell proliferation. **Cell Death & Disease** 7(11):e2453. doi: 10.1038/cddis.2016.359 (2016)
4. Magni M., Ruscica V., Restelli M., Fontanella E., Buscemi G. and **Zannini L.** CCAR2/DBC1 is required for Chk2-dependent KAP1 phosphorylation and repair of DNA damage. **Oncotarget**, 6, 17817-31 (2015)
5. Magni M., Ruscica V., Buscemi G., Kim JE., Nachimuthu BT., Fontanella E., Delia D. and **Zannini L.** Chk2 and REG γ -dependent DBC1 regulation in DNA damage induced apoptosis. **Nucleic Acids Res.**, 42, 13150-13160 (2014)
6. **Zannini L.**, Delia D. and Buscemi G. Chk2 kinase in the DNA damage response and beyond. **J. Mol. Cell Biol.**, 6: 442-457 (2014)
7. Buscemi G., Ricci C., **Zannini L.**, Fontanella E., Plevani P., Delia D. Bimodal regulation of p21^{waf1} protein as function of DNA damage levels. **Cell Cycle**, 13: 2901-2912 (2014)
8. **Zannini L.**, Buscemi G., Kim JE, Fontanella E. and Delia D. DBC1 phosphorylation by ATM/ATR inhibits SIRT1 deacetylase in response to DNA damage. **J. Mol. Cell Biol.**, 4: 294-303 (2012).
9. Turinetto V, Porcedda P, Minieri V, Orlando L, Lantelme E, Accomasso L, Amoroso A, De Marchi M, **Zannini L.**, Delia D, Giachino C. A novel defect in mitochondrial p53 accumulation following DNA damage confers apoptosis resistance in Ataxia Telangiectasia and Nijmegen Breakage Syndrome T-cells. **DNA Repair**, 9:1200-1208 (2010).
10. **Zannini L.**, Buscemi G., Fontanella E., Lisanti S. and Delia D. REG γ /PA28 γ proteasome activator interacts with PML and Chk2 and affects PML nuclear bodies number. **Cell Cycle**. 8:2399-407 (2009).

11. Buscemi G., Zannini L., Fontanella E., Lecis D., Lisanti S., Delia D. The shelterin protein TRF2 inhibits Chk2 activity at telomeres in the absence of DNA damage. **Curr. Biol.** 19:874-9 (2009)
12. Zannini L., Lecis D., Buscemi G., Carlessi L., Gasparini P., Fontanella E., Lisanti S., Barton L. and Delia D. REGγ proteasome activator is involved in the maintenance of chromosomal stability. **Cell Cycle**, 7:504-12 (2008).
13. Bruno T., De Nicola F., Iezzi S., Lecis D., D'Angelo C., Di Padova M., Corbi N., Dimiziani L., Zannini L., Jekimovs C., Scarsella M., Porrello A., Chersi A., Crescenzi M., Leonetti C., Khanna K.K., Soddu S., Floridi A., Passananti C., Delia D. and Fanciulli M. Che-1 phosphorylation by ATM/ATR and Chk2 kinases activates p53 transcription and the G2/M checkpoint. **Cancer Cell**, 10:473-86 (2006).
14. Buscemi G., Carlessi L., Zannini L., Lisanti S., Fontanella E., Canevari S. and Delia D. DNA damage-induced cell cycle regulation and function of novel Chk2 phosphoresidues. **Mol. Cell. Biol.**, 26:7832-45 (2006).
15. Caramuta S., De Cecco L., Reid J.F., Zannini L., Gariboldi M., Kjeldsen L., Pierotti M.A. and Delia D. Regulation of lipocalin-2 gene by the cancer chemopreventive retinoid 4-HPR. **Int. J. Cancer**, 119:1599-606 (2006).
16. Zannini L., Lecis D., Lisanti S., Benetti R., Buscemi G., Schneider C and Delia D. Karyopherin-alpha2 protein interacts with Chk2 and contributes to its nuclear import. **J. Biol. Chem.**, 278: 42346-51 (2003).
17. Oguchi K., Takagi M., Tsuchida R., Taya Y., Ito E., Itoyama K., Ishii E., Zannini L., Delia D. and Mizutani S. Missense mutation and defective function of ATM in a childhood acute leukemia patient with MLL gene rearrangement. **Blood**, 101: 3622-7 (2003).
18. Buscemi G., Savio C., Zannini L., Miccichè F., Masnada D., Nakanishi M., Tauchi H., Komatsu K., Mizutani S., Khanna K.K., Chen P., Concannon P., Chessa L. and Delia D. Chk2 activation dependence on Nbs1 after DNA damage. **Mol. Cell. Biol.** 21(15): 5214-22 (2001).
19. Biunno I., Bernard L., Dear P., Cattaneo M., Volorio S., Zannini L., Bankier A. and Zollo M. SEL1L, the human homolog of C. elegans sel-1: refined physical mapping, gene structure and identification of polymorphic markers. **Hum. Genet.** 106:227-35 (2000).

Book chapters:

Zannini L., Buscemi G. "CHK2" for the **Encyclopedia of Signaling Molecules, 2nd Edition (Springer Nature)** Edited by Prof. Sangdun Choi.