

Laura Zannini

- Dati personali:** Luogo e data di nascita: Milano, 27/09/1974
Cittadinanza: Italiana
- Educazione:** Dicembre 2013 **Abilitazione alla professione di biologo** (Esame di Stato)

Luglio 2007 **PhD** presso la Open University, Milton Keynes, UK.
Studi svolti presso: Fondazione IRCCS Istituto Nazionale dei Tumori, Milano.

Maggio 1999 **Laurea in Scienze Biologiche** presso l'Università degli Studi di Milano. Mark: 110/110
- Esperienza lavorativa:** Dicembre 2016-oggi: **Ricercatore** presso **Istituto di Genetica Molecolare Luigi Luca Cavalli-Sforza, Consiglio Nazionale delle Ricerche (IGM-CNR)**, Pavia

Giugno 1999-December 2016: **PhD student, Post-Doc and PI** presso **Fondazione IRCCS Istituto Nazionale dei Tumori** (Milan).

Gennaio-Marzo 2001: **PhD student** presso **Laboratorio Nazionale C.I.B.** (Area Science Park, Padriciano, Trieste)
- Finanziamenti:** **Italian Association for Cancer Research (AIRC) – IG 2018**
Titolo del progetto: “TSPY-Like 2, a gender specific player in the DNA damage response.” Funding obtained: 504.000,00 euro

Italian Ministry of Health – Young Investigator Grant 2010
Titolo del progetto: “Deleted in Breast Cancer 1, a new player in the DNA damage response.” Funding obtained: 371.200,00 euro
- Premi:** Immagine di **copertina** del numero di Dicembre 2014 di J. Mol. Cell Biol.

Premio Giovani Ricercatori 2013 della Fondazione IRCCS Istituto Nazionale dei Tumori

Gennaio 2001-Dicembre 2003 Borsa di Studio Triennale “**FIRC**” ottenuta mediante concorso pubblico

Esperienze da revisore: Revisore di pubblicazioni scientifiche per diverse riviste internazionali come: Cellular Physiology and Biochemistry, Neoplasia, BMC geriatrics, BMC cancer, Carcinogenesis, Cancer Biology and Therapy, Nature Communications

Pubblicazioni: *Magni M.,... 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)

Magni M., Buscemi., 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)

Restelli M.,... 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)

Magni M.,... and Zannini L. CCAR2/DBC1 is required for Chk2-dependent KAP1 phosphorylation and repair of DNA damage. **Oncotarget**, 6, 17817-31 (2015)

Magni M.,... and Zannini L. Chk2 and REG γ -dependent DBC1 regulation in DNA damage induced apoptosis. **Nucleic Acids Res.**, 42, 13150-13160 (2014)

Zannini L., et al. Chk2 kinase in the DNA damage response and beyond. **J. Mol. Cell Biol.**, 6: 442-457 (2014)

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)

Zannini L., et al. DBC1 phosphorylation by ATM/ATR inhibits SIRT1 deacetylase in response to DNA damage. **J. Mol. Cell Biol.**, 4: 294-303 (2012).

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).

Zannini L., et al. REGgamma/PA28gamma proteasome activator interacts with PML and Chk2 and affects PML nuclear bodies number. **Cell Cycle**. 8:2399-407 (2009).

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)

Zannini L., et al. REG γ proteasome activator is involved in the maintenance of chromosomal stability. **Cell Cycle**, 7:504-12 (2008).

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).

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).

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).

Zannini L., et al. Karyopherin-alpha2 protein interacts with Chk2 and contributes to its nuclear import. **J. Biol. Chem.**, 278: 42346-51 (2003).

Oguchi K., Takagi M., Tsuchida R., Taya Y., Ito E., Ioyama 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).

Buscemi G, Savio C, Zannini L., Micciche F, Masnada D, Nakanishi M, Tauchi H, Komatsu K, Mizutani S, Khanna K, Chen P, Concannon P, Chessa L, Delia D. Chk2 activation dependence on Nbs1 after DNA damage. **Mol. Cell. Biol.** 21(15): 5214-22 (2001)

Biunno I, Bernard L, Dear P, Cattaneo M, Volorio S, Zannini L., Bankier A, 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)

Capitoli di libri: Zannini L., Buscemi G. “CHK2” per **Encyclopedia of Signaling Molecules**, 2nd Edition (Springer Nature). Responsabile editoriale Prof. Sangdun Choi.

Congressi: *ABCD meeting: From stress response to tissue development and regeneration.* 28-29 September 2018 Pavia, Italy. **Comunicazione orale.**

Life Science 2018. 2nd joint annual symposium. June 20-22 2018 Pavia, Italy. **Comunicazione orale.**

PI3K-like protein kinases. November 3-5 2015 Milan, Italy. **Poster.**

The 2015 IMB Conference: DNA Repair & Genome stability in a chromatin environment. June 4-7 2015, Mainz, Germany. **Poster.**

The DNA damage response in cell physiology and disease. October 7-11 2013, Cape Sounio, Greece. **Poster.**

Nature-CNIO Conference, Oncogenes and human cancer: the next 25 years, October 3-6 2007, Madrid, Spain. **Poster.**

Cancer genetics and epigenetics. Gordon research conference. May 20-25 2007, Il Ciocco, Lucca, Italy. **Poster.**

The 2005 International Workshop on Ataxia-Telangiectasia, ATM and the DNA damage response. June 8-11 2005, Hotel Villa Carlotta, Belgirate, Lago Maggiore, Italy. **Poster.**

Cell and molecular biology of cancer. January 22-25 2003, Lausanne, Switzerland. **Poster.**

The cell cycle. May 15-19 2002 Cold Spring Harbor Laboratory, New York, U.S.A. **Poster.**

International conference on basic and clinical aspects of cell cycle. May 29-31 2000, Siena, Italy. **Comunicazione orale.**