Prof. Daniela Barilà

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CV Daniela Barilà

Personal Statement: Since several years my research interests are mainly focused on signal transduction and on the study of the role of phosphorylation cascades in cancer. In this context, my laboratory has contributed to the identification of a novel crosstalk between non receptor tyrosine kinases and caspases. We are further characterizing the role of interplay in cancer development and response to therapy focusing on glioblastoma cellular models.
In parallel we have focused our attention on a serine/threonine kinase ATM, a safe-guardian of genomic stability that is functionally lost in a rare autosomal recessive disorder Ataxia Telangiectasia. Our studies identified novel functions of ATM in the control of protein ubiquitination and degradation and in the modulation of tumorigenicity.

Education:
Degree in Biology (1991) 110/110 cum laude. University of Rome "La Sapienza"
Specialization in Biotechnologies (1994) 70/70 cum laude. University of Rome "La Sapienza"

Positions:
Since 2006 Daniela Barilà is Coordinator of the Laboratory of Signal Transduction at IRCCS- Fondazione Santa Lucia, Rome, Italy. Since 2008 she was an Assistant Professor and since 2018 she is an Associate Professor of the Department of Biology of the University of Rome Tor Vergata.

Main research interests during the last years:
1) Characterization of novel non apoptotic functions of Caspase-8; identification of a Src tyrosine kinase dependent phosphorylation of Caspase-8 and characterization of its significance cancer.
2) Characterization of novel signaling pathways mediated by c-Abl tyrosine kinase; characterization of Abl kinase function in MET Receptor Tyrosine Kinase signaling and investigation on its putative role as therapeutic target for MET-dependent solid tumors.
3) Role of ATM kinase in death receptor signaling; identification of ATM kinase as a novel modulator of ITCH-E3 ubiquitin ligase and investigation on the significance of this pathway in cancer and in neurodegeneration.
4) Role of ATM kinase in cancer: identification and characterization of ATM as an unexpected promoter of HER2 tumorigenicity in breast cancer
5) Study on the role of tyrosine kinases in the control of mitochondrial functionality in cellular models of neurodegeration and aging.

Additional information: Daniela Barilà is author of more than 35 papers in international journals indexed by Pub-Med (H index google scholar 28, H index Scopus 24). Her researches have received support from Fondazione Telethon, AIRC, AICR, MIUR (PRIN) and the Italian Ministry of Health. She is member of the following Scientific Societies: EMBL Alumni, Italian Biophysics and Molecular Biology Society (SIBBM), Italian Genetics Society (AGI).

Link to Pubmed publications:
http://www.ncbi.nlm.nih.gov/pubmed/?term=barila+d