



CURRICULUM VITAE

PERSONAL INFORMATION	Roberto Iorio Department of Biotechnology and Applied Clinical Sciences Via Vetoio, Coppito 2 67100 L'Aquila, Italy E-mail: roberto.iorio@univaq.it
CURRENT POSITION	Assistant Professor
EDUCATION OTHER QUALIFICATIONS	2002 – M.Sc. in Biological Sciences <i>cum laude</i> at the University of L'Aquila 2006 – PhD in Molecular and Cell Biology
ACADEMIC APPOINTMENTS	from March 1990 - Technical Assistant, sixth level, technical area, scientific technician from October 2007 – Assistant Professor
CLINIC APPOINTMENTS	/
TEACHING EXPERIENCE	2007 – 2019 , Course of Biology, Chemistry and Biochemistry - E0472 2019 – Molecular Mechanisms and Biomarkers in the Cellular Response to Stress - B0495 2020 – Molecular and Cellular Adaptations (Course of Cellular, Morphological and Physiological Adaptations in High Performance - E0488)
RESEARCH ACTIVITIES	Evaluation of the molecular mechanisms underlying energetic and oxidative stress responses induced by currently used azole fungicides on Mouse Sertoli TM4 cells. Evaluation of cytoprotective and immunomodulation activity of non-viable paraprobiotic <i>Lactobacillus sakei</i> on human conjunctival and corneal cells treated with inflammatory inducers like preservatives or drugs used for the treatment of glaucoma.
RESPONSIBILITY IN ACADEMIC ACTIVITIES	2016 – 2019 Member of the Discipline Board
EDITORIAL BOARD, EDITORIAL ACTIVITIES, SOCIETY MEMBERSHIP	Italian Association of Biology and General and Molecular Genetics



SCIENTIFIC ACHIEVEMENTS BIBLIOMETRIC INDICATORS	Scopus Author ID: 35948722500 http://orcid.org 0000-0003-1863-5752 h- Index: 10 i10-h-Index normalized: 8 Total citations: 360 Average Citations per Item: 17
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SELECTED PUBLICATIONS	<p>1) C. Tatone, R. Iorio, A. Francione, L. Gioia, R. Colonna, "Biochemical and biological effects of KN-93, an inhibitor of calmodulin-dependent protein kinase II, on the initial events of mouse egg activation induced by ethanol". <i>J. Reprod. Fertil.</i> 1999 Jan; 115 (1):151-7.</p> <p>2) C. Tatone, S. Delle Monache, R. Iorio, D. Caserta, M. Di Cola, R. Colonna, " Possibile role for Ca²⁺ calmodulin-dependent protein kinase II as an effector of the fertilization Ca²⁺ signal in mouse oocyte activation". <i>Mol. Human. Reprod.</i> 2002 Aug; 8(8): 750-7</p> <p>3) R. Iorio, R. Scrimaglio, E. Rantucci, S. Delle Monache, A. Di Gaetano, N. Finetti, F. Francavilla, R. Santucci, E. Tettamanti, R. Colonna, "A preliminary study of oscillating electromagnetic field effects on human spermatozoon motility". <i>Bioelectromagnetics</i> 2007 Jan; 28: 72-75</p> <p>4) S. Delle Monache, R. Alessandro, R. Iorio, G. Gualtieri and R. Cardigno Colonna, "Extremely low frequency electromagnetic fields (ELF-EMFs) induce in vitro angiogenesis process in human endothelial cells". <i>Bioelectromagnetics</i> 2008 Dec; 29(8):640-648.</p> <p>5) R. Iorio, S. Delle Monache, F. Bennato, C. Di Bartolomeo, R. Scrimaglio, B. Cinque and R. Colonna "Involvement of mitochondrial activity in mediating ELF-EMF stimulatory effect on human sperm motility". <i>Bioelectromagnetics</i> 2011 Jan; 32(1): 15-27.</p> <p>6) B. Segatore, D. Setacci, F. Bennato, R. Cardigno, G. Amicosante and R. Iorio "Evaluations of the effects of Extremely low frequency electromagnetic fields on growth and antibiotic susceptibility of Escherichia coli and Pseudomonas aeruginosa". <i>International Journal of Microbiology</i> volume 2012.</p> <p>7) R. Iorio, F. Bennato, F. Mancini and R. Colonna "ELF-EMF transiently increases skeletal myoblast migration: possible role of calpain system". <i>International Journal of Radiation Biology</i> 2013 July; 89(7): 548-561.</p> <p>8) S. Delle Monache, A. Angelucci, P. Sanità, R. Iorio, F. Bennato, F. Mancini, G. Gualtieri and R. Colonna "Inhibition of Angiogenesis Mediated by Extremely Low-Frequency Magnetic Fields (ELF-MFs)". <i>PLoS One</i> 2013 Nov; 14: 8-11.</p>
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9) **R. Iorio**, A. Castellucci, G. Ventriglia, F. Teoli, V. Cellini, G. Macchiarelli and S. Cecconi "Ovarian toxicity: from environmental exposure to chemotherapy". *Current Pharmaceutical Design* 2014; 20 (34): 5388-97

10) F. Brisdelli, F. Bennato, A. Bozzi, B. Cinque, F. Mancini and **R. Iorio** "ELF-MF attenuates quercetin-induced apoptosis in K562 cells through modulating the expression of Bcl-2 family proteins" *Molecular and Cellular Biochemistry* 2014; 397(1): 33-43.

11) **R. Iorio**, A. Castellucci, G. Rossi, B. Cinque, M. Cifone, G. Macchiarelli and S. Cecconi "Mancozeb affects mitochondrial activity, redox status and energy metabolism in mouse granulosa cells" *Toxicology in vitro* 2015; 30 (1): 438-445.

12) C. Luzi, F. Brisdelli, **R. Iorio**, A. Bozzi, V. Carnicelli, A. Di Giulio, A. R. Lizzi "Apoptotic effects of bovine apo-lactoferrin on HeLa tumor cells" *Cell Biochemistry and Function* 2017; 35 (1): 33-41.

13) G.L. Gravina, A. Mancini, A. Colapietro, F. marampon, R. Sferra, S. Pompili, L.A. Biordi, **R. Iorio**, V. Flati, C. Argueta, Y. Landesman, M. Kauffman, S. Shacham and C. Festuccia "Pharmacological treatment with inhibitors of nuclear export enhances the antitumor activity of docetaxel in human prostate cancer" *Oncotarget* 2017; Nov 30; 8 (67): 111225-111245.

14) P. Morciano, **R. Iorio**, D. Iovino, F. Cipressa, G. Esposito, A. Porrazzo, L. Satta, E. Alesse, M.A. Tabocchini and G. Cenci "Effects of reduced natural background radiation on *Drosophila melanogaster* growth and development as revealed by the FLYINGLOW program" *Journal of Cellular Physiology* 2018 Jan; 233 (1): 23-29.

15) V. Di Nisio, G. Rossi, **R. Iorio**, C. Pellegrini, G. Macchiarelli, G.M. Tiboni, S. Petricca, S. Cecconi "VEGFR2 Expression Is Differently Modulated by Parity and Nulliparity in Mouse Ovary" *Biomed Res Int.* 2018 Sep 16; 2018: 6319414.

16) S. Petricca, V. Flati, G. Celenza, J. Di Gregorio, A.R. Lizzi, C. Luzi, L. Cristiano, B. Cinque, G. Rossi, C. Festuccia and **R. Iorio** "Tebuconazole and Econazole act synergistically in mediating mitochondrial stress, energy imbalance and sequential activation of autophagy and apoptosis in mouse Sertoli TM4 cells: possible role of AMPK/ULK1 axis" *Toxicological Sciences* 2019 May 1; 169 (1): 209-223.

17) V. Di Nisio, G. Rossi, G. Di Luigi, P. Palumbo, A. D'Alfonso, **R. Iorio**, S. Cecconi "Increased levels of proapoptotic markers in normal ovarian cortex surrounding small endometriotic cysts" *Reprod Biol* 2019 Sep; 19 (3): 225-229.



	<p>18) C. Festuccia, A. Mancini, G.L. Gravina, A. Colapietro, A. Vetuschi, S. Pompili, L. Ventura, S. Delle Monache, Iorio R., A. Del Fattore, W. Fogler, J. Magnani "Dual CXCR4 and E-Selectin Inhibitor, GMI-1359, Shows Anti-Bone Metastatic Effects and Synergizes with Docetaxel in Prostate Cancer Cell Intraosseous Growth" <i>Cells</i>. 2020 Jan; 9 (1): 32.</p> <p>19) G. Celenza, R. Iorio, S. Cracchiolo, S. Petricca, C. Costagliola, B. Cinque, B. Segatore, G. Amicosante, and P. Bellio "Antimycotic Activity of Ozonized Oil in Liposome Eye Drops against <i>Candida</i> spp. <i>Trans Vis Sci Tech</i>. 2020; 9 (8): 4.</p> <p>20) G. Rossi, B. Dfrusine, AR Lizzi, C. Luzi, A. Piccoli, F. Fezza, R. Iorio, G. D'Andrea, E. Dainese, S. Cecconi, M. Maccarrone "Bisphenol A deranges the endocannabinoid system of primary Sertoli cells with impact on inhibin B production" <i>Int J Mol Sci</i> 2020 Nov 26; 21 (23): 8986.</p> <p>21) R. Iorio, S. Petricca, C. Luzi, P. Bellio, L. Cristiano, C. Festuccia, G. Amicosante, and G. Celenza "Lactobacillus sakei pro-Bio65 reduces TNF-α expression and up-regulates GSH content and antioxidant enzymatic activities in Human Conjunctival cells" <i>Trans Vis Sci Tech</i>. 2021 (Accepted)</p>
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L'AQUILA, 15TH FEBRUARY 2021