

## **Roberta Ceci, PhD**

Università di Roma “Foro Italico”

P.zza Lauro de Bosis 6, 00135 Roma – Italia

Tel. +39.0636733.589 – roberta.ceci@uniroma4.it

Associate professor of Biochemistry at the University of Rome “Foro Italico” with research backgrounds in signal transduction and muscle differentiation. She received the PhD degree in cell biology from the University of Rome “Sapienza”. Past professional appointments have included the positions of visiting scientist at the European Molecular Biology Laboratories (EMBL, Heidelberg, Germany) and at National Institute of Health (NIH, Bethesda, USA). She is interested in studying cellular and molecular mechanisms underlying cell differentiation and adaptation to movement through “in vitro” cellular models and “in vivo” protocols on humans respectively. Her recent research concerns the role of the redox homeostasis and endocannabinoid system in the systemic adaptation to exercise.

### Publications 2017-2021:

- Sgrò P, Ceci R, Lista M, Patrizio F, Sabatini S, Felici F, Sacchetti M, Bazzucchi I, Duranti G, Di Luigi L. Quercetin Modulates IGF-I and IGF-II Levels After Eccentric Exercise-Induced Muscle-Damage: A Placebo-Controlled Study. *Front Endocrinol (Lausanne)*. 2021 Nov 3;12:745959. doi: 10.3389/fendo.2021.745959. PMID: 34803913; PMCID: PMC8595302.
- Duranti G, Maldini M, Crognale D, Horner K, Dimauro I, Sabatini S, Ceci R. *Moringa oleifera* Leaf Extract Upregulates Nrf2/HO-1 Expression and Ameliorates Redox Status in C2C12 Skeletal Muscle Cells. *Molecules*. 2021 Aug 20;26(16):5041. doi: 10.3390/molecules26165041. PMID: 34443628; PMCID: PMC8400669.
- Duranti G, Ceci R, Di Luigi L, Antinozzi C, Dimauro I, Sabatini S, Cervelli M, Sgrò P. Effect of Tadalafil Administration on Redox Homeostasis and Polyamine Levels in Healthy Men with High Level of Physical Activity. *Int J Environ Res Public Health*. 2021 Sep 22;18(19):9962. doi: 10.3390/ijerph18199962. PMID: 34639267; PMCID: PMC8508218.
- Duranti G, Maldini M, Crognale D, Sabatini S, Corana F, Horner K, Ceci R. *Moringa Oleifera* leaf extract influences oxidative metabolism in C2C12 myotubes through SIRT1-PPAR $\alpha$  pathway. *Phytomedicine PLUS*. 2021. 1; 100014. doi:10.1016/j.phyplu.2020.100014. ISSN: 26670313
- Dorelli B, Gallè F, De Vito C, Duranti G, Iachini M, Zaccarin M, Preziosi Standoli J, Ceci R, Romano F, Liguori G, Romano Spica V, Sabatini S, Valeriani F, Cattaruzza MS. Can Physical Activity Influence Human Gut Microbiota Composition Independently of Diet? A Systematic Review. *Nutrients*. 2021 May 31;13(6):1890. doi: 10.3390/nu13061890. PMID: 34072834; PMCID: PMC8228232.
- Reinoso-Sánchez JF, Baroli G, Duranti G, Scaricamazza S, Sabatini S, Valle C, Morlando M, Casero RA Jr, Bozzoni I, Mariottini P, Ceci R, Cervelli M. Emerging Role for Linear and Circular Spermine Oxidase RNAs in Skeletal Muscle Physiopathology. *Int J Mol Sci*. 2020 Nov 3;21(21):E8227. doi: 10.3390/ijms21218227. PMID: 33153123.
- Bazzucchi I, Patrizio F, Ceci R, Duranti G, Sabatini S, Sgrò P, Di Luigi L, Sacchetti M. Quercetin Supplementation Improves Neuromuscular Function Recovery from Muscle Damage. *Nutrients*. 2020 Sep 17;12(9):E2850. doi: 10.3390/nu12092850. PMID: 32957571.
- Di Luigi L, Duranti G, Antonioni A, Sgrò P, Ceci R et al. The Phosphodiesterase Type 5 Inhibitor Sildenafil Improves DNA Stability and Redox Homeostasis in Systemic Sclerosis Fibroblasts Exposed to Reactive Oxygen Species. *Antioxidants (Basel)*. 2020;9(9):E786. Published 2020 Aug 25. doi:10.3390/antiox9090786

- Ceci R, Duranti G, Di Filippo ES, Bondi D, Verratti V, Doria C, Caporossi D, Sabatini S, Dimauro I, Pietrangelo T “Endurance training improves plasma superoxide dismutase activity in healthy elderly” *Mechanisms of Ageing and Development* 2019 doi:10.1016/j.mad.2019.111190
- Bazzucchi I, Patrizio F, Ceci R, Duranti G, Sgrò P, Sabatini S, Di Luigi L, Sacchetti M, Felici F. (2019). The Effects of Quercetin Supplementation on Eccentric Exercise-Induced Muscle Damage. *NUTRIENTS*, vol. 11, ISSN: 2072-6643,doi: 10.3390/nu11010205
- Duranti G, Ceci R , Patrizio F, Sgro'P, Di Luigi L, Sabatini S, Felici F, Bazzucchi I (2018). Chronic consumption of quercetin reduces erythrocytes oxidative damage: evaluation at resting and after eccentric exercise in humans. *NUTRITION RESEARCH*, ISSN: 0271-5317 doi:10.1016/j.nutres.2017.12.002
- Cervelli M, Leonetti A, Duranti G, Sabatini S, Ceci R, Mariottini P. (2018). Skeletal Muscle Pathophysiology: The Emerging Role of Spermine Oxidase and Spermidine. *MEDICAL SCIENCES*, ISSN: 2076-3271 doi:10.3390/medsci6010014
- Colamartino M, Duranti G, Ceci R, Sabatini S, Testa A, Cozzi R (2018). A multi-biomarker analysis of the antioxidant efficacy of Parkinson's disease therapy. *TOXICOLOGY IN VITRO*, ISSN: 0887-2333 doi: 10.1016/j.tiv.2017.10.020
- Ceci R, Duranti G, Sgrò P, Sabatini S, Di Luigi L (2017). Acute tadalafil administration increases plasma fatty acids without changes in the inflammatory response in healthy men. *ACTA BIOCHIMICA POLONICA*, ISSN: 0001-527X, doi:10.18388/abp.2017\_2205
- Ceci R, Duranti G, Leonetti A, Pietropaoli S, Spinozzi F, Marcocci L, Amendola R, Cecconi F, Sabatini S, Mariottini P, Cervelli M (2017). Adaptive responses of heart and skeletal muscle to spermine oxidase overexpression: evaluation of a new transgenic mouse model . *FREE RADICAL BIOLOGY & MEDICINE*, vol. 103, p. 216-225, ISSN: 0891-5849, doi: 10.1016/j.freeradbiomed.2016.12.040
- Duranti G, Ceci R, Sgrò P, Sabatini S, Di Luigi L. (2017). Influence of the PDE5 inhibitor tadalafil on redox status and antioxidant defense system in C2C12 skeletal muscle cells.. *CELL STRESS & CHAPERONES*, ISSN: 1355-8145, doi: 10.1007/s12192-017-0778-9
- Di Luigi L, Sansone M, Sansone A, Ceci R, Duranti G, Borrione P, Crescioli C, Sgro`P, Sabatini S (2017). Phosphodiesterase Type 5 Inhibitors, Sport and Doping. *CURRENT SPORTS MEDICINE REPORTS*, ISSN: 1537-890X doi: 10.1249/JSR.0000000000000422
- de Perini A, Dimauro I, Duranti G, Fantini C, Mercatelli N, Ceci R, Di Luigi L, Sabatini S, Caporossi D (2017). The p75NTR-mediated effect of nerve growth factor in L6C5 myogenic cells. *BMC RESEARCH NOTES*, ISSN: 1756-0500 doi: 10.1186/s13104-017-2994-x