

Name Giovanni
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Place and date of birth 15 Agosto 1969, Caserta ITALY
Degree Master of Science in Biology, PhD in Molecular Biology
Accademic affiliation Department of Experimental Medicine, Section of Biotechnology and Molecular Biology, School of Medicine, University of Campania "Luigi Vanvitelli", Naples, Italy.
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PRESENT POSITION

- Associate Professor of Molecular Biology at the School of Medicine, Dept. of Medicina Sperimentale, University of Campania "Luigi Vanvitelli", Naples, Italy.
- Affiliate Professor at the Sbarro Health Research Organization at Temple University

MEMBERSHIP

- ISSCR (International Society for Stem Cell Researches).
- International Society for Cellular Therapy (ISCT).
- National Association of Italian Biologist.
- Founder of Stem Cell Research Italy, scientific association of researchers involved in stem cell studies (<http://www.stemcellitaly.it>).

STUDIES

- **1994** Master degree in Biological Sciences, *summa cum laude*, University of Naples, Naples, Italy.
- **2003** PhD in Molecular Biology

WORK EXPERIENCES IN ITALY AND ABROAD

- **1994** Post-degree practical training at the School of Medicine, Institute of Biochemistry of Macromolecules, 2nd University of Naples, Naples, Italy
- **1995-1996** Post-doctoral fellowship, P.F. FATMA, National Research Council (C.N.R.), Rome, Italy.
- **1997-1998** Post-doctoral fellowship P. F. Beni Culturali, National Research Council (C.N.R.), Rome, Italy.
- **1999** Post-doctoral fellowship P. F. Beni Culturali, National Research Council (C.N.R.), Rome, Italy.
- **1999-2002** Post-doctoral fellowship at Department of Experimental Medicine, Second University of Napoli, Italy.
- **2000** Visiting Researcher at The Kuvim Centre for the study of infectious and tropical disease", Hebrew University, Hadassah Medical School, Jerusalem-Israel.
- **2003-2007** Post-doctoral fellowship at Department of Experimental Medicine, Second University of Napoli, Italy.

HONORS

- **2002:** Winner of the Award “Consorzio di Ricerca per lo Sviluppo nella Provincia di Caserta (CRISVICE) for the originality PhD thesis.
- **2007** Selection for Assistant Professor of Molecular Biology, Second University of Napoli, Italy.

Main current research interests

- Basic and applied researches on normal and cancer stem cells.
- Analysis of senescence processes that affect stem cell properties.
- Effect of low dose radiations on the biology of normal and cancer stem cells.

He is co-author of more than 64 articles (H-index 22, citations 1281 by Scopus)

Selected publications

- Ayaz-Guner S., Alessio, Nicola, Acar M. B., Aprile D., Ozcan S., Di Bernardo, G., Peluso G., Galderisi U. A comparative study on normal and obese mice indicates that the secretome of mesenchymal stromal cells is influenced by tissue environment and physiopathological conditions. *Cell Communication and Signaling*, 2020, 18(1), 118
- Squillaro, T.; Peluso, G.; Galderisi, U.; Di Bernardo, G. Long non-coding RNAs in regulation of adipogenesis and adipose tissue function *eLife*, 2020, 9, pp. 1-15, e59053
- Alessio, N., Squillaro, T., Di Bernardo G., Galano G., De Rosa R., Melone M.B., Peluso, G., Galderisi, U. Increase of circulating IGFBP-4 following genotoxic stress and its implication for senescence *eLife*, 2020, 9, e54523
- Nicola Alessio, Tiziana Squillaro, Vincenzo Monda, Gianfranco Peluso, Marcellino Monda, Mariarosa AB Melone, Umberto Galderisi, Giovanni Di Bernardo Circulating factors present in the sera of naturally skinny people may influence cell commitment and adipocyte differentiation of mesenchymal stromal cells. *World J Stem Cells* 2019 March 26; 11(3): 0-0 DOI: 10.4252/wjsc.v11.i3.0000
- Alessio N, Aprile D, Squillaro T, Di Bernardo G, Finicelli M, Melone MA, Peluso G, Galderisi U. The senescence-associated secretory phenotype (SASP) from mesenchymal stromal cells impairs growth of immortalized prostate cells but has no effect on metastatic prostatic cancer cells. *Aging* 2019 Aug 14;11(15):5817-5828. doi: 10.18632/aging.102172
- Squillaro T, Alessio N, Di Bernardo G, Özcan S, Peluso G, Galderisi U. Stem Cells and DNA Repair Capacity: Muse Stem Cells Are Among the Best Performers. *Adv Exp Med Biol*. 2018;1103:103-113. doi: 10.1007/978-4-431-56847-6_5.
- Alessio N, Stellavato A, Squillaro T, Del Gaudio S, Di Bernardo G, Peluso G, De Rosa M, Schiraldi C, Galderisi U. Hybrid complexes of high and low molecular weight hyaluronan delay in vitro replicative senescence of mesenchymal stromal cells: a pilot study for future therapeutic application. *Aging (Albany NY)*. 2018 Jul 12;10(7):1575- 1585. doi: 10.18632/aging.101493.

- Alessio N, Squillaro T, Özcan S, Di Bernardo G, Venditti M, Melone M, Peluso G, Galderisi U. Stress and stem cells: adult Muse cells tolerate extensive genotoxic stimuli better than mesenchymal stromal cells. *Oncotarget*. 2018 Apr 10;9(27):19328-19341. doi: 10.18632/oncotarget.25039. eCollection 2018 Apr 10.
- Alessio N, Riccitiello F, Squillaro T, Capasso S, Del Gaudio S, Di Bernardo G, Cipollaro M, Melone MAB, Peluso G, Galderisi U. Neural stem cells from a mouse model of Rett syndrome are prone to senescence, show reduced capacity to cope with genotoxic stress, and are impaired in the differentiation process. *Exp Mol Med*. 2018 Mar 22;50(3):1. doi: 10.1038/s12276-017-0005-x..
- 7. Alessio N, Capasso S, Di Bernardo G, Cappabianca S, Casale F, Calarco A, Cipollaro M, Peluso G, Galderisi U. Mesenchymal stromal cells having inactivated RB1 survive following low irradiation and accumulate damaged DNA: Hints for side effects following radiotherapy. *Cell Cycle*. 2017 Feb;16(3):251-258. doi:10.1080/15384101.2016.1175798.

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