

PERSONAL INFORMATION



Umberto Galderisi

- Full Professor of Molecular Biology at the School of Medicine, University of Campania "Luigi Vanvitelli", Naples, Italy.
- POSITION
- Adjunct Professor, Sbarro Inst. for Cancer Research and Mol. Medicine, Temple Univ, Philadelphia, PA, USA.
- Visiting Scientist at Genkok (Genome and Stem Center) of Erciyes University, Kaiseri, Turkey

WORK EXPERIENCE

2008 - 2018	Associate Professor of Molecular Biology
	Luigi Vanvitelli Campania University, Naples, Italy
2001 - 2007	Assistant Professor of Molecular Biology
	Second University of Naples, Naples, Italy
	 Researcher in Molecular Biology
2006, 2008, 2011	Visiting Scientist
	"Heinrich Pette" Institute of Hamburg University, Germany.
	 Research on cell cycle regulation and anti-oncogenes
2003	Visiting Scientist
	Tulane University, New Orleans, LA, USA
	 Research on mesenchymal stem cells
2001 to present	Adjunct Associate Professor
	College of Science, Temple University, Philadelphia, PA, USA
	 Research on cell cycle regulation and anti-oncogenes
1998, 1999	Visiting Scientist
	Faculty of Medicine, Thomas Jefferson University, Philadelphia, PA, USA
	 Research on cell cycle regulation and anti-oncogenes
1997 - 1999	Senjor Scientist
	CEINGE, Naples, Italy
	 Research in molecular and cellular biology



Curriculum Vitae

1996 Post Doc

"Museum National d'Histoire Naturelle", Paris, France

- Research in molecular biology

EDUCATION AND TRAINING

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1992	PhD
	University "Federico II", Naples, Italy
	PhD in Embryology and Histology
1987	Master of Science
	University "Federico II", Naples, Italy
	Degree in Biological Science
ADDITIONAL INFORMATION	
Memberships	National Association of Italian Biologist
	International Society for Cellular Therapy (ISCT)
	 ECSA (European Cellular Senescence Association) Founder and President of Stem Cell Research Italy (www.stemcellitaly.it)
	- Founder and Fresident of Stern Cen Rescaren haly (www.sterneemany.it)
Editorial Board	 World Journal of Stem Cells (till Dec 2024)
	 Stem Cell Discovery (2008 to present)
	 Journal of Cardiology and Therapy (2013 to present)
	 Imaging Journal of Clinical and Medical Sciences (2014 to present)
	 Journal of Cancer Metastasis and Treatment (2014 to present)
	 Frontiers in Bioengineering and Biotechnology (2021 to present)
	 Cell Transplantation (2023 to present)
Scientific Interests	 Basic and applied researches on normal and cancer stem cells.
Scientific interests	 Analysis of senescence processes that affect stem cell properties.
	 Effect of low dose radiations on the biology of normal and cancer stem cells.
	 Animal models for studies on stem cell aging and senolytic treatments.
Publications	 Co-author of more than 180 articles (H-index 46) by Scopus.
	Selected publications
	1: Alessio N, Aprile D, Peluso G, Mazzone V, Patrone D, Di Bernardo G, Galderisi U. IGFBP5 is released by senescent cells and is internalized by healthy cells, promoting their senescence through interaction with retinoic receptors. Cell

promoting their senescence through interaction with retinoic receptors. Cell Commun Signal. 2024 Feb 13;22(1):122. doi: 10.1186/s12964-024-01469-1. PMID: 38351010; PMCID: PMC10863175.

2: Alessio N, Acar MB, Squillaro T, Aprile D, Ayaz-Güner Ş, Di Bernardo G, Peluso G, Özcan S, Galderisi U. Progression of irradiated mesenchymal stromal cells from early to late senescence: Changes in SASP composition and anti-tumour properties. Cell Prolif. 2023 Jun;56(6):e13401. doi: 10.1111/cpr.13401. Epub



Curriculum Vitae

2023 Mar 22. PMID: 36949664; PMCID: PMC10280137.

3: Aprile D, Alessio N, Squillaro T, Di Bernardo G, Peluso G, Galderisi U. Role of alvcosphingolipid SSEA-3 and FGF2 in the stemness and lineage commitment of multilineage differentiating stress enduring (MUSE) cells. Cell Prolif. 2023 Jan:56(1):e13345. doi: 10.1111/cpr.13345. Epub 2022 Oct 12. PMID: 36225120; PMCID; PMC9816924.

4: Avaz-Guner S, Alessio N, Acar MB, Aprile D, Özcan 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 Commun Signal. 2020 Jul 29;18(1):118. doi: 10.1186/s12964-020-00614-w. PMID: 32727501; PMCID: PMC7388533.

5: Alessio N, Squillaro T, Di Bernardo G, Galano G, De Rosa R, Melone MAB, Peluso G, Galderisi U. Increase of circulating IGFBP-4 following genotoxic stress and its implication for senescence. Elife. 2020 Mar 30;9:e54523. doi: 10.7554/eLife.54523. Erratum in: Elife. 2022 Jul 01;11: PMID: 32223893; PMCID: PMC7136022.

6: Alessio N, Acar MB, Demirsoy IH, Squillaro T, Siniscalco D, Bernardo GD, Peluso G, Özcan S, Galderisi U. Obesity is associated with senescence of mesenchymal stromal cells derived from bone marrow, subcutaneous and visceral fat of young mice. Aging (Albany NY). 2020 Jul 7;12(13):12609-12621. doi: 10.18632/aging.103606. Epub 2020 Jul 7. PMID: 32634118; PMCID: PMC7377882.

7: Alessio N, Pipino C, Mandatori D, Di Tomo P, Ferone A, Marchiso M, Melone MAB, Peluso G, Pandolfi A, Galderisi U. Mesenchymal stromal cells from amniotic fluid are less prone to senescence compared to those obtained from bone marrow: An in vitro study. J Cell Physiol. 2018 Nov;233(11):8996-9006. doi: 10.1002/jcp.26845. Epub 2018 Jun 15. PMID: 29904927.

8: 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. PMID: 29563495; PMCID: PMC6118406.

9: Squillaro T, Severino V, Alessio N, Farina A, Di Bernardo G, Cipollaro M, Peluso G, Chambery A, Galderisi U. De-regulated expression of the BRG1 chromatin remodeling factor in bone marrow mesenchymal stromal cells induces senescence associated with the silencing of NANOG and changes in the levels of chromatin proteins. Cell Cycle. 2015;14(8):1315-26. doi: 10.4161/15384101.2014.995053. PMID: 25724006; PMCID: PMC4614278.

10: Acar MB, Ayaz-Güner Ş, Di Bernardo G, Güner H, Murat A, Peluso G, Özcan S, Galderisi U. Obesity induced by high-fat diet is associated with critical changes in biological and molecular functions of mesenchymal stromal cells present in visceral adipose tissue. Aging (Albany NY). 2020 Dec 27;12(24):24894-24913. doi: 10.18632/aging.202423. Epub 2020 Dec 27. PMID: 33361524; PMCID: PMC7803587.

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