

PERSONAL INFORMATION

Antonio Randazzo



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Sex Male | Date of birth 24/04/1971 | Nationality Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- 01/11/2018 - Today **Full Professor**
University of Naples Federico II – Department of Pharmacy – Via D. Montesano 49, 80131 Napoli, Italy
▪ Scientific Research and Teaching
- 01/11/2006 – 31/10/2018 **Associate Professor**
University of Naples Federico II – Department of Pharmacy – Via D. Montesano 49, 80131 Napoli, Italy
▪ Scientific Research and Teaching
- 01/11/1999 – 31/10/2006 **Assistance Professor**
University of Naples Federico II – Department of Pharmacy – Via D. Montesano 49, 80131 Napoli, Italy
▪ Scientific Research and Teaching
- 01/11/1999 – 31/03/2000 **Post-Doc**
Vanderbilt University, Department of Biochemistry, Nashville (Tennessee, USA)
▪ Scientific Research
- 12/05/1999 – 31/10/1999 **Post-Doc**
The Scripps Research Institute (TSRI), Department of Molecular Biology, San Diego (California, USA)
▪ Scientific Research
- 31/07/1998 – 31/08/1998 **Post-Doc**
The Scripps Research Institute (TSRI), Department of Molecular Biology, San Diego (California, USA)
▪ Scientific Research

RESEARCH ACTIVITIES

Leader of a research group of Medicinal Chemistry, working on:

- DNA G-quadruplex (G4) structures, formed in many human oncogenes.
- Metabolomics studies.

Methodologies: Nuclear Magnetic Resonance (ITC) and Mass Spectrometry (MS), UV, CD, Fluorescence spectroscopies, Surface Plasmon Resonance, Thermophoresis, Multivariate Data Analysis.

EDUCATION AND TRAINING

- 1995 - 1999 **Doctorate**
University of Naples Federico II – Dept. of Pharmacy – Via D. Montesano 49, 80131 Napoli, Italy
▪ Bioactive Natural Compound, NMR, UV, CD, MS
- 1990 - 1995 **Bachelor**
University of Naples Federico II – Dept. of Pharmacy – Via D. Montesano 49, 80131 Napoli, Italy
▪ Pharmaceutical and Medicinal Chemistry

WORK ACTIVITIES

Editorial activity	Associate Editor of <i>Frontiers in Chemistry</i> (Medicinal and Pharmaceutical Chemistry) (IF 5.221); Associate Editor of <i>Cancers</i> (MDPI) (IF 6.639).
Invited presentations	Prof. Randazzo has been invited to give oral presentation 16 times at international congresses and 9 times at national congresses.
Grants	AIRC IG #18695: Targeting DNA i-motif structures: a new frontier in anticancer therapy AIRC IG #26313: Multi-omics integration to develop effective anti-cancer drugs from DNA G-quadruplex and i-motif ligands.
Patents	Method for the preparation of a low unspecific binding support for affinity chromatography and/or on-line synthesis of oligonucleotides (#102017000030473 10/07/2019 and #3378556 A1 26/09/2018)

ADDITIONAL INFORMATION

Publications	<p>Total number of publications in peer-review journals: 138</p> <p>Total number of publications in peer-review journals in the last 10 years: 71</p> <p>Total Impact Factor (IF) (average IF/paper): 787,9 (5,83)</p> <p>Total number of citations: 4405</p> <p>H index= 37</p> <p>Relevant publications:</p> <ul style="list-style-type: none"> Nunzia Iaccarino, Mingpan Cheng, Dehui Qiu, Bruno Pagano, Jussara Amato, Anna Di Porzio, Jun Zhou, Antonio Randazzo, Jean-Louis Mergny "Effects of Sequence and Base Composition on the CD and TDS Profiles of i-DNA" <i>Angewandte Chemie - International Edition</i>, 2021, 60(18), 10295–10303 Nunzia Iaccarino, Khakimov B., Mikkelsen M.S., Nielsen T.S., Jensen M.G., Antonio Randazzo, Engelsen S.B. "Structurally different mixed linkage β-glucan supplements differentially increase secondary bile acid excretion in hypercholesterolaemic rat faeces" <i>Food & Function</i> 2020, 11(1), 514-523. Nunzia Iaccarino, Jussara Amato, Bruno Pagano, Anna Di Porzio, M. Micucci, L. Bolelli, R. Aldini, Ettore Novellino, Roberta Budriesi, Antonio Randazzo "Impact of phytosterols on liver and distal colon metabolome in experimental murine colitis model: an explorative study" <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> 2019, 34 (1), 1041-1050. Ilaria Lauri, Francesco Savorani, Nunzia Iaccarino, Pasquale Zizza, Luigi M. Pavone, Ettore Novellino, Søren B. Engelsen, Antonio Randazzo "Development of an Optimized Protocol for NMR Metabolomics Studies of Human Colon Cancer Cell Lines and First Insight from Testing of the Protocol Using DNA G-Quadruplex Ligands as Novel Anti-Cancer Drugs" <i>Metabolites</i>, 2016, 6(1), pii: E4. Sandro Cosconati, Luciana Marinelli, Roberta Trotta, Ada Vimo, Stefano De Tito, Romeo Romagnoli, Bruno Pagano, Vittorio Limongelli, Concetta Giancola, Pier Giovanni Baraldi, Luciano Mayol, Ettore Novellino, Antonio Randazzo "Structural and conformational requisites in DNA quadruplex groove binding: another piece to the puzzle" <i>J. Am. Chem. Soc.</i>, 2010, 132(18), 6425-6433. Sandro Cosconati, Luciana Marinelli, Roberta Trotta, Ada Vimo, Luciano Mayol, Ettore Novellino, Arthur J. Olson, Antonio Randazzo "Tandem Application of Virtual Screening and NMR Experiments in the Discovery of Brand New DNA Quadruplex Groove Binders" <i>J. Am. Chem. Soc.</i>, 2009, 131(45), 16336-16337. Luigi Martino, Ada Vimo, Bruno Pagano, Antonella Virgilio, Simone Di Micco, Aldo Galeone, Concetta Giancola, Giuseppe Bifulco, Luciano Mayol, Antonio Randazzo "Structural and Thermodynamic Studies of the Interaction of Distamycin A with the Parallel Quadruplex Structure [d(TGGGGT)]₄". <i>J. Am. Chem. Soc.</i>, 2007, 129(51), 16048-16056.
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