

## PERSONAL INFORMATION

Aldo Galeone



Affiliation

University of Naples Federico II – Department of Pharmacy

Via D. Montesano, 49 – 80131 – Naples, Italy



+39081678542



+393335749698



galeone@unina.it



<https://www.docenti.unina.it/#/professor/414c444f47414c454f4e45474c4e4c444136314c3239453339374f/riferimenti>

Sex Male | Date of birth 29/07/1961 | 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

February 2021 – Today

**Full Professor in Organic Chemistry at the Pharmacy Department of Naples University Federico II**

October 2002 – January 2021

**Associate Professor in Organic Chemistry at the Biotechnological Sciences Faculty and Pharmacy Department of Naples University Federico II**

September 1998 – September 2002

**Researcher in Organic Chemistry at the Pharmacy Faculty of Naples University Federico II**

## EDUCATION AND TRAINING

July 1994 – July 1996

Post-doctoral fellowship - Pharmacy Faculty of Naples University Federico II

May 1994 – July 1994

Scientific collaboration

Interactions of antiviral and/or anticancer drugs with DNA synthetic fragments - Pharmacy Faculty of Naples University Federico II

June 1993

Ph. D. in Biologically Active Natural Substances

Final dissertation: "Synthesis of modified polynucleotides useful in biological and physical-chemical investigations" - Pharmacy Faculty of Naples University Federico II

January 1993 – July 1993

Scientific collaboration

Synthesis of modified polynucleotides as models in physical-chemical investigations, potential therapeutic agents and useful tool in diagnostics - Pharmacy Faculty of Naples University Federico II

July 1989

Degree in Pharmaceutical Chemistry and Technology (110/110)

November 1986

Degree in Pharmacy (102/110)

## WORK ACTIVITIES

Editorial activity

- Guest Editor of Special Issues "The Polymorphic World of G-Quadruplexes: From Structural Insights to Functional Activity" 1<sup>st</sup> Edition, 2<sup>nd</sup> Edition of the *International Journal of Molecular sciences*

- Section Board Member of *Molecules*

**Invited presentations**

Studies of heterochiral oligonucleotides forming G-quadruplex structures. Symposium on Nucleic Acid Chemistry, Structure and Interactions, Nova Gorica, 29<sup>th</sup>-31<sup>st</sup> May 2012

**Patents**

PYRIMIDO[5,4-D]PYRIMIDINE OR PYRIMIDINE DERIVATIVES COMPOUNDS AND USES THEREOF IN THE TREATMENT OF CANCER. International Publication Number: WO 2014/045310 A1

Prof. Galeone is leader of a research group working at the Dep. of Pharmacy at the Naples University Federico II. Almost all of his research activity has been devoted to the chemistry of nucleic acids, their synthetic modifications and structural and biological properties. In particular, in the last ten years, the scientific production of Prof. Galeone has been focusing on therapeutic oligonucleotides as G-quadruplex forming aptamers, miRNA and antagomiR, collaborating with several of the most important group leaders in the field.

**ADDITIONAL INFORMATION****Publications**

(SCOPUS) total number of publications in peer-review journals = **110 (105 with IF)**  
publications in the last 10 years: **37**  
total number of citations = **2564**  
H index = **30**

Most significant papers of last 5 years

- 1) Festa, C., Esposito, V., Benigno, D., De Marino, S., Zampella, A., Virgilio, A., Galeone, A. Discovering New G-Quadruplex DNA Catalysts in Enantioselective Sulfoxidation Reaction (2022) International Journal of Molecular Sciences, 23 (3), art. no. 1092, .
- 2) Virgilio, A., Benigno, D., Pecoraro, A., Russo, A., Russo, G., Esposito, V., Galeone, A. Exploring new potential anticancer activities of the g-quadruplexes formed by [(GTG2T(G3T)3] and its derivatives with an abasic site replacing single thymidine (2021) International Journal of Molecular Sciences, 22 (13), art. no. 7040, .
- 3) Virgilio, A., Esposito, V., Pecoraro, A., Russo, A., Vellecco, V., Pepe, A., Bucci, M., Russo, G., Galeone, A. Structural properties and anticoagulant/cytotoxic activities of heterochiral enantiomeric thrombin binding aptamer (TBA) derivatives (2020) Nucleic Acids Research, 48 (22), pp. 12556-12565.
- 4) Virgilio, A., Esposito, V., Tassinari, M., Nadai, M., Richter, S.N., Galeone, A. Novel monomolecular derivatives of the anti-HIV-1 G-quadruplex-forming Hotoda's aptamer containing inversion of polarity sites (2020) European Journal of Medicinal Chemistry, 208, art. no. 112786, .
- 5) Amato, T., Virgilio, A., Pirone, L., Vellecco, V., Bucci, M., Pedone, E., Esposito, V., Galeone, A. Investigating the properties of TBA variants with twin thrombin binding domains (2019) Scientific Reports, 9 (1), art. no. 9184, .
- 6) Misso, G., Zarone, M.R., Lombardi, A., Grimaldi, A., Cossu, A.M., Ferri, C., Russo, M., Vuoso, D.C., Luce, A., Kawasaki, H., Di Martino, M.T., Virgilio, A., Festa, A., Galeone, A., De Rosa, G., Irace, C., Donadelli, M., Necas, A., Amler, E., Tagliaferri, P., Tassone, P., Caraglia, M. miR-125b Upregulates miR-34a and Sequentially Activates Stress Adaption and Cell Death Mechanisms in Multiple Myeloma (2019) Molecular Therapy - Nucleic Acids, 16, pp. 391-406.
- 7) Burra, S., Marasco, D., Malfatti, M.C., Antoniali, G., Virgilio, A., Esposito, V., Demple, B., Galeone, A., Tell, G. Human AP-endonuclease (Ape1) activity on telomeric G4 structures is modulated by acetyltable lysine residues in the N-terminal sequence (2019) DNA Repair, 73, pp. 129-143.
- 8) Virgilio, A., Amato, T., Petraccone, L., Esposito, F., Grandi, N., Tramontano, E., Romero, R., Haider, S., Gomez-Monterrey, I., Novellino, E., Mayol, L., Esposito, V., Galeone, A. Improvement of the activity of the anti-HIV-1 integrase aptamer T30175 by introducing a modified thymidine into the loops (2018) Scientific Reports, 8 (1), art. no. 7447, .
- 9) Ferrucci, V., De Antonellis, P., Pennino, F.P., Asadzadeh, F., Virgilio, A., Montanaro, D., Galeone, A., Boffa, I., Pisano, I., Scognamiglio, I., Navas, L., Diana, D., Pedone, E., Gargiulo, S., Gramanzini, M., Brunetti, A., Danielson, L., Carotenuto, M., Liguori, L., Verrico, A., Quaglietta, L., Errico, M.E., Del Monaco, V., D'Argenio, V., Tirone, F., Mastronuzzi, A., Donofrio, V., Giangaspero, F., Picard, D., Remke, M., Garzia, L., Daniels, C., Delattre, O., Swartling, F.J., Weiss, W.A., Salvatore, F., Fattorusso, R., Chesler, L., Taylor, M.D., Cinalli, G., Zollo, M. Metastatic group 3 medulloblastoma is driven by PRUNE1 targeting NME1-TGF- $\beta$ -OTX2-SNAIL via PTEN inhibition (2018) Brain, 141 (5), pp. 1300-1319.
- 10) Esposito, V., Russo, A., Amato, T., Vellecco, V., Bucci, M., Mayol, L., Russo, G., Virgilio, A., Galeone, A. The "Janus face" of the thrombin binding aptamer: Investigating the anticoagulant and antiproliferative properties through straightforward chemical modifications (2018) Bioorganic Chemistry, 76, pp. 202-209.

Naples, 18-05-2023

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