






PERSONAL INFORMATION

Bruno Pagano



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Sex Male | Date of birth 18/09/1976 | 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

From December 2022 – to date	Full Professor of Physical Chemistry Department of Pharmacy, University of Naples Federico II
From 2018 – to 2022	Associate Professor of Medicinal Chemistry Department of Pharmacy, University of Naples Federico II
From 2017 – to 2019	Member of the Council of the School of Medicine and Surgery University of Naples Federico II
From 2016 – to date	Member of the Board of the PhD Course in Pharmaceutical Sciences University of Naples Federico II
From 2016 – to 2018	Member of the Council of the Department of Pharmacy University of Naples Federico II
From 2011 – to 2018	Assistant Professor of Medicinal Chemistry Department of Pharmacy, University of Naples Federico II
From 2010 - to date	Member of the Italian Chemical Society (SCI) ▪ Member of the Board of the Interdivisional Group of Calorimetry and Thermal Analysis (GICAT) (2020-today)
From 2010 - to date	Member of the Italian Association of Calorimetry and Thermal Analysis (AICAT)
From 2008 – to 2009	FEBS fellow Randall Division of Cell and Molecular Biophysics, King's College London, UK

EDUCATION AND TRAINING

2008	PhD in Pharmaceutical Sciences University of Salerno
2007	PhD visiting student UCL School of Pharmacy, London, UK
2006	PhD visiting student King's College London, UK

- 2004 Postgraduate fellow
National Institute for Medical Research, London, UK
- 2003 Degree in Chemistry (MSc equivalent)
University of Naples Federico II

WORK ACTIVITIES

- Honours and awards**
- 2011 - "Gastone De Santis" Award from the Italian Chemical Society and Italfarmaco Spa.
 - 2010 - "Alberto Lucci" Award from the Italian Association of Calorimetry and Thermal Analysis.
 - 2009 - "Giacomino Randazzo" Award from the Italian Chemical Society (sec. Campania) for the best PhD thesis of 2008 in the field of Chemical Sciences.
- Funded projects as PI**
- 2020 - Project title: "Noncanonical DNA-binding proteins: from identification to next generation peptide-based anticancer therapeutics" (5-year grant). Funding organization: Italian Association for Cancer Research (AIRC).
 - 2020 - Project title: "Correlation between cytosine methylation and conformational changes in G4 detected by UVRR" (n. 20207070). Funding organization: Central European Research Infrastructure Consortium (CERIC).
 - 2019 - Project title: "Role of oxidative damage in G-tetrad: A UV Resonant Raman Spectroscopy assay" (n. 20195478). Funding organization: Elettra.
 - 2015 - Project title: "G-quadruplex-binding proteins and their functional relevance in human cancer cells" (3-year grant). Funding organization: Italian Association for Cancer Research (AIRC).
 - 2015 - Project title: "Targeting i-motifs throughout the human genome" (Call STAR 2014 Prot. 2015/0063170). Funding organization: University of Naples Federico II.
 - 2013 - Project title: "G-quadruplex-forming aptamers for the therapy of prion diseases" (Future in Research (FIR) 3-year grant). Funding organization: Italian Ministry of University and Research (MUR).
 - 2011 - Project title: "Telomere-targeting anticancer drugs" (3-year grant). Funding organization: Italian Association for Cancer Research (AIRC).
- Editorial activity**
- Member of the Editorial Board of International Journal of Molecular Sciences.
 - Associate Editor of Frontiers in Chemistry.
 - Guest Editor of Journal of Thermal Analysis and Calorimetry, Special Chapter on Recent Development in the Field of Calorimetry, Thermal Analysis and Applied Thermodynamics (Vol. 130, 2017).
 - Guest Editor of International Journal of Molecular Sciences, Special Issue "Chemistry and Biology of Noncanonical Nucleic Acid Structures: From Physicochemical Properties to Therapeutic Applications".
- Presentations**
- Speaker at several national and international conferences. Selected invited lectures in the last 5 years:
- 2019 - "*Insights into noncanonical DNA structures and their binding properties in aqueous environments*". Conference Frontiers in Water Biophysics, Ettore Majorana Foundation and Centre for Scientific Culture, Erice (TP).
 - 2021 - "*Biophysical methods to quantify non-canonical nucleic acids stability and interactions in solution*". Innovative therapeutic targets in non-canonical nucleic acids structures - Winter International School 2021 (INTERACTION WINS 2021).
 - 2022 - "*Thermodynamics of Noncanonical Nucleic Acid Structures*". International Symposium on Chemical Thermodynamics for Young Researchers (ISCTYR), Laurino (SA).
 - 2022 - "*Physicochemical studies of i-motif-forming DNA sequences*". XLVIII Congress of the Physical Chemistry Division of the Italian Chemical Society, Genoa.
- Conferences**
- Member of the Organizing Committee of "Third International Meeting on G-Quadruplex and G-assembly" (2011).
 - Member of the Organizing Committee of "XXXVIII National Congress on Calorimetry, Thermal Analysis and Applied Thermodynamics" (2016).
 - Member of the Scientific Committee of "5th Central and Eastern European Conference on Thermal Analysis and Calorimetry & 14th Mediterranean Conference on Calorimetry and Thermal Analysis" (CEEC-TAC5 & Medicta2019) (2019).
 - Member of the Organizing Committee of "National Conference of the Division of Chemistry of Biological Systems" of the Italian Chemical Society (2022).
 - Member of the National Organizing Committee del "13th European Symposium on Thermal Analysis and Calorimetry" (ESTAC-13) (2022).

ADDITIONAL INFORMATION

- International agreements
- Member of the Joint Committee of the International agreement between the University of Naples Federico II and the University of Lodz, Poland (2018-today).
 - Member of the Joint Committee of the International agreement between the University of Naples Federico II and the Ivanovo State University of Chemistry and Technology, Russia (2015-today).
- Reviewer activity
- Reviewer for the following Journals: *ACS Omega* (ACS Publications); *Analytical Chemistry* (ACS Publications); *Biochimica et Biophysica Acta (BBA) - General Subjects* (Elsevier); *Biochimie* (Elsevier); *Biomaterials* (Elsevier); *Bioorganic Chemistry* (Elsevier); *Bioorganic & Medicinal Chemistry Letters* (Elsevier); *Biophysical Chemistry* (Elsevier); *ChemBioChem* (Wiley); *Chemical Biology & Drug Design* (Wiley); *Chemical Communications* (Royal Society of Chemistry); *Chemical Science* (Royal Society of Chemistry); *ChemistrySelect* (Wiley); *ChemMedChem* (Wiley); *Computational and Structural Biotechnology Journal* (Elsevier); *European Journal of Medicinal Chemistry* (Elsevier); *International Journal of Biological Macromolecules* (Elsevier); *International Journal of Molecular Sciences* (MDPI); *Journal of Biomolecular Structure and Dynamics* (Taylor & Francis); *Journal of Computational Biophysics and Chemistry* (World Scientific Publishing); *Journal of Molecular Modeling* (Springer); *Journal of Thermal Analysis and Calorimetry* (Springer); *Life* (MDPI); *Methods* (Elsevier); *Molecules* (MDPI); *Nucleic Acids Research* (Oxford University Press); *Organic & Biomolecular Chemistry* (Royal Society of Chemistry); *Pharmaceuticals* (MDPI); *Physical Chemistry Chemical Physics* (Royal Society of Chemistry); *PLoS One* (Public Library of Science); *Scientific Reports* (Nature Research); *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (Elsevier); *The Innovation* (Cell Press); *The Journal of Physical Chemistry* (ACS Publications).
- Publications
- H-index*: **32**
 Total number of publications in peer-reviewed journals*: **97**
 Number of publications in the last 10 years*: **71**
 Total number of citations*: **2700**
 *Source Scopus
- Selected publications in the last 5 years:
- *Human inhalable antibody fragments neutralizing SARS-CoV-2 variants for COVID-19 therapy* (2022) *Molecular Therapy*, 30 (5), 1979-1993.
 - *Conformational plasticity of DNA secondary structures: probing the conversion between i-motif and hairpin species by circular dichroism and ultraviolet resonance Raman spectroscopies* (2022) *Physical Chemistry Chemical Physics*, 24 (11), 7028-7044.
 - *On the thermodynamics of folding of an i-motif DNA in solution under favorable conditions* (2021) *Physical Chemistry Chemical Physics*, 23 (28), 15030-15037.
 - *Insights into telomeric G-quadruplex DNA recognition by HMGB1 protein* (2019) *Nucleic Acids Research*, 47 (18), 9950-9966.
 - *Tailoring a lead-like compound targeting multiple G-quadruplex structures* (2019) *European Journal of Medicinal Chemistry*, 163, 295-306.
 - *HMGB1 binds to the KRAS promoter G-quadruplex: A new player in oncogene transcriptional regulation?* (2018) *Chemical Communications*, 54 (68), 9442-9445.

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