PERSONAL INFORMATION

Giuseppe Pappalardo

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Sex : Male

Date of birth 25/07/1961

Nationality Italian

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☒ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

2021-to present

Research Director at CNR-IC Catania

- Head of the research group of Peptide Chemistry and Biology; Principal investigator of funded research projects and grants, Responsible of Peptide Synthesis Laboratory.
- Member of the UDVR team at CNR-DSCTM
- ANVUR VQR-201-2019: member of the Panel GEV3.

2013-2023
- ASN qualification as a full Professor in Inorganic Chemistry (Chim. 03/B1)

2002-2017
- Head of the Catania site of the CNR-IBB (now migrated to CNR-IC)
- Managing of the Institute's research and administration activities

2004-2011
- Contract Professor "Laboratory of chemical Synthesis of Proteins" Master (Magistral) Degree Course in Biomolecular Chemistry, University of Catania

2014-to present
- Member of the teaching staff of the International PhD school in Chemical sciences University of Catania

2013
- Member of the teaching staff of the International PhD school in Translational Biomedicine University of Catania

2010
- Member of the teaching staff of the International PhD school in Nanoscience University of Catania

2004, 2006, 2008, 2009, 2012, 2017
- Visiting scientist at 2017 Department of Inorganic and Analytical chemistry of the University of Debrecen Hungary (Prof. Imre Sovago).

1997
- Visiting scientist at the Organic Chemistry Department of the University of Saarland in Saarbrucken: Supervisor Prof. H.J. Schneider

EDUCATION AND TRAINING

1989-91
- Trained research fellowship at CNR
- Bioinorganic chemistry of metal complexes with biologically active peptides.

1986
- Master's degree in Biological Sciences summa cum Laude
- Chemistry of Natural Products and molecular structure determination by MS and NMR

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English B2 Level (independent user)

Memberships
- Italian Peptide Society (ItPS);

Tutorship
- Thesis Supervisor of several alumni and PhD students of the Biological Sciences and Chemical Sciences, Pharmaceutical sciences degree courses.

Conferences
- Invited Speaker: “Short Peptide Conjugates for Neuroprotection and Aß Detection.” International Symposium on Pathomechanisms of Amyloid Diseases, Catania, Sicily, Italy
- Keynote lecturer (invited): “The use of peptides for the management of Amyloid β: metal complexes, fibril formation and neuroprotection.” ISMEC 2019 Hajdúszoboszló (Debrecen, Hungary)
- Session lectures (invited): “Copper(II) and Zinc(II) Interactions with the Amyloid-β Peptide:Structure of the Complexes, Oligomerisation and in vitro Toxicity 10th International Symposium on Applied Bioinorganic Chemistry.” ISABC 10 (Debrecen, Hungary)
- Oral communications, seminars and lectures in several national and international meetings and schools

Digital skills
Trained user of most common writing and elaborating computer software. Microsoft Office package, Corel Draw, Origin, NMR-MestReC, MMass. Data bank user.

Other skills
Chemical synthesis of peptides, structural and conformational analyses of peptides by means of ESI-MS, MALDI-MS, CD, NMR. Metal complexes with biomolecules, handling of Amyloid peptides, protein/protein interaction; molecular bases of theragnostic devices.

ADDITIONAL INFORMATION

Relevant Projects
- 2022-2025 PNRR-EIC: Sicilian Micronanotech Research and Innovation Center "SAMOTHRACE”.
- 2019-2022 PON Progetti di Ricerca Industriale e Sviluppo Sperimentale nelle 12 aree di Specializzazione PNR 2015-2020 Project ARS01_1270 entitled “Innovative Devices for Shaping the Risk of Diabetes.
- 2017-2021 PI of the agreement of research collaboration CNR-IC/Department of Chemical Sciences “Ugo Shiff” University of Florence. P.I. Project: “Sintesi e caratterizzazione di sistemi peptidici per applicazioni in ambito diagnostico/prognostico e terapeutico mirati anche alla comprensione dei meccanismi molecolari di malattie neurodegenerative.
- 2016-2018 HAS-CNR bilateral research Programme: P.I. project “Peptide based nanostructures as theranostic tools for biological systems”.
- 2012-2015 PON 02_00355_2964193/1: P.I. (Research Unit CNR) project “Sviluppo di micro e nano-tecnologie e sistemi avanzati per la salute dell’uomo-HIPPOCRATES.“
- 2010-2015 PON 01_01078: P.I.(Research Unit CNR) project “Identificazione di biomarcatori e sviluppo di metodi diagnostici e terapeutici nel campo dell’oncologia e della biologia vascolare.”
- 2011-2014 FIRB-MERIT RBNE08HWLZ: P.I. (National Coordinator) project ”Molecular bases in ageing-related degenerative syndromes.”
- 2011-2013 PRIN 2009WCNS5C_002: P.I. (Research Unit) project “Synthesis and potential antitumor activity of copper(II) and zinc(II) complexes with ionophore-conjugated peptides.”
- 2006-2009 FIRB RBIN04L28_001: P.I. (Research Unit) project” Environmental factors in Alzheimer's and type 2 Diabete's diseases.”

Publications
113 publications (peer review International Journals, Book chapters)

Relevant publications (Max 10)
- Mazzaglia et al. KLVFF Oligopeptide-Decorated Amphiphilic Cyclodextrin Nanomagnets for Selective Amyloid Beta Recognition and Fishing, 2022, JCIS 613, 814–826, doi: 10.1016/j.jcis. 2022.01.051
- Consoli et al., 2021 Novel Peptide-Calix[4]arene Conjugate Inhibits Aβ Aggregation and Rescues Neurons from Aβ’s Oligomers Cytotoxicity in vitro. *ACS Chem. Neurosci*. 12, 1449−1462. doi: 10.1021/acschemneuro.1c00117
- Lazzaro, et al., Ion Mobility Spectrometry Combined with Multivariate Statistical Analysis: Revealing the Effects of a Drug Candidate for Alzheimer’s Disease on Aβ1-40 Peptide Early Assembly. *Analytical and Bioanalytical Chemistry*, 2019, 411, 6353–6363. doi: 10.1007/s00216-019-02030-7.
- Di Natale, et al., Potential therapeutics of Alzheimer’s Diseases: New insights into the neuroprotective role of trehalose-conjugated beta sheet breaker peptides, *Pept. Sci*. 2018, e24083. doi:10.1002/pep2.24083
- Villari, et al., A metalloporphyrin-peptide conjugate as an effective inhibitor of amyloid-β peptide fibrillation and cytotoxicity, Chemistry Select., 2017, 2, 9122– 9129. doi: 10.1002/slct.201701148
- Santoro et al., Copper(II) ions affect the gating dynamics of the 20S proteasome: a molecular and in cell study. 2016, *Sci. Rep*. 6:33444 | DOI: 10.1038/srep33444.
- Sinopoli et al., Ac-LPFFD-Th: A Trehalose-Conjugated Peptidomimetic as a Strong Suppressor of Amyloid-β Oligomer Formation and Cytotoxicity, 2016, *ChemBioChem*, 17(16):1541-9.

DOI:10.1002/cbic.201600243

- Giuffrida, et al., Monomeric ß-Amyloid interacts with type-1 insulin-like growth factor receptors to provide energy supply to neurons, 2015, Front. Cell. Neurosci. 9, 297. doi: 10.3389/fncel.2015.00297
- Tomasello et al. Aggregation and cytotoxic properties of hIAPP17-29 and rIAPP17-29 fragments: a comparative study with the respective full-length parent polypeptides., *Eur. J. Med. Chem*. 2014, 81, 442-455. doi: 10.1016/j.ejmech.2014.05.038
- Attanasio et al. Copper(II) and zinc(II) dependent effects on Aβ42 aggregation: a CD, Th-T and SFM study. *New J. Chem.*, 2013, 37, 1206-1215. doi: 10.1039/c3nj40999f

Researcher ID	B-7772-2015
ORDID	0000-0001-7328-3492
Scopus ID	56517055400
citations	WOS 2641; Scopus 2704; Google scholar 3260
h-index	WOS 29; Scopus 30; Google Scholar 30;

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016,
“I hereby express my consent to process and use my data provided in this CV".