NAME	Pittalà, Valeria
POSITION TITLE	Associate professor Medicinal Chemistry (CHIM/08)
EDUCATION	
03/1995	Master degree in Chemistry and Pharmaceutical Technologies, Summa cum Laude University of Catania
04/1999	PhD in Pharmaceutical Science, Summa cum Laude – University of Catania

EMPLOYMENT

03/2020 – present	Associate Professor (CHIM08) Department of Drug and Health Science, University of Catania, Italy
11/2002 – 02/2020	RTI Medicinal Chemistry (CHIM08) Department of Drug Science, University of Catania, Italy
	Research Scientist. Member of <i>Combinatorial Chemistry Group</i> (R&D) Pharmacia Corporation, 10 Pasteur Road, 20014 Nerviano (MI), Italy

OTHER PROFESSIONAL EXPERIENCE, BOARDS AND COMMITTEE

2022 – 2023	Adjunct Faculty Member of Arabian Gulf University, Manama, Bahrein			
2021/2019/2018/2017 Visiting Professor at the Department of Molecular Medicine and Nanomedicine Unit (3–4 weeks/year), Arabian Gulf University, Manama, Bahrein				
11/2020	National Scientific Qualification (ASN) for Full Professor 3D1 – CHIM08			
2019 – present	Journal Topic Board member of International Journal of Molecular Science IF 5.92			
2018 – present	Editorial board member of Recent Patents on Anti-Cancer Drug Discovery IF 4.17			
2018 – present	Editorial board member of Mini-Reviews in Medicinal Chemistry IF 3.86			
2017 – present	Member of the PhD Academic Board in Biotechnology [DOT1708221]			
2016 – 2020	Member of "Giunta del Dipartimento di Scienze del Farmaco"			
2009 – 2016	Member of the PhD Academic Board in Pharmaceutical Sciences			
09/2000 – 11/2000	Visiting Researcher at Pharmacia Corporation, Kalamazoo, MI 49001, United States			
05/1998 – 09/1998	Visiting PhD at the Department of Organic Chemistry, University of Granada, Spain			

REVIEWER POSITIONS

Journals

ChemMedChem, Mini-Reviews in Medicinal Chemistry, Bioorganic and Medicinal Chemistry, European Journal of Medicinal Chemistry, Current Medicinal Chemistry, Seminars in Cancer Biology, Cells, Inorganica Chimica Acta, Neuroscience and Biobehavioral Reviews

SCIENTIFIC INTERESTS AND RESEARCH EXPERTISE

My early investigations were focused on the development of new methods, validation and analysis in synthesis and production of targeted libraries for different kinases including Aurora and CDK2. I contributed to the

discovery and identification of danusertib (phase I-II clinically investigated) by being co-inventor of bicyclopyrazoles chemical class (US7531531, US7541354, WO2002012242). Selected bicyclopyrazole derivatives are available to the scientific community through various catalogues (more than 60), i.e. danusertib is available from Selleckchem (Cat. No. S1107), Ontario Chemicals, Inc. (Cat. No. D3316), and many others.

My research interests include the synthesis, structure-activity relationship studies, and preliminary pharmacological evaluation of ligands for G-protein Coupled Receptors (GPCRs), such as σ_1 and σ_2 receptors, α_1 adrenergic, serotonin 5-HT₇ and 5-HT_{1A} receptors.

In the last ten years, the main active area of investigation is the rational design and development of modulators of the NRF2/Keap1 axis with a specific focus on heme oxygenase-1 (HO-1) inhibitors. The identification in our research group of a high number of novel, potent and selective HO-1 inhibitors, along with the release of a free internet accessible database collecting all the HO-1 inhibitors known to date, makes us one of the leading groups in field.

Altogether, these research activities have resulted in the identification of tools to study the pharmacology of these biological systems *in vitro* and *in vivo*.

BIBLIOMETRY AND SUMMARY OF THE SCIENTIFIC PRODUCTION

- ORCID: 0000-0003-1856-0308
- SCOPUS ID: 6507693975
- Cit. Scopus 3843;
- h-index: 32
- N. 7 International Patent Applications (A1, A2, or B2) Cit. Scifinder 95
- N. 122 Peer-reviewed publications in journals with impact factor (WOS/Scopus). Among these, around 40 as first, last or corresponding author

RESEARCH SUPPORT – ONGOING

1. P.O. FESR Sicilia 2014-2020 n. 08 ME 2110000209

2020-2023

Title: "Validazione di un prodotto terapeutico innovativo per la gestione del dolore cronico primario limitandone l'infiammazione persistente e la neuro infiammazione associate". Acronym: ProTIDol. CUP G4811801100007

2. PON "Ricerca e Innovazione" 2014-2020 e FSC, di cui all'avviso MIUR D.D. del 13 luglio 2017 n.1735, ammesso alle agevolazioni con D.D. prot. n. 526 del 17/04/2020. ARS01_00693 2020–2023

Title: BONE++ Sviluppo di Micro e Nanotecnolgie per la Predittività, la Diagnosi, la Terapia e i Trattamenti Rigenerativi delle Alterazioni Patologiche dell'Osso e Osteo-Articolari – Settore Salute - N. Domanda ARS01_00693.Unit Responsible: RI 4.2 - Sviluppo e Caratterizzazione del Prototipo di Protesi (OR4.2.6 -Sviluppo di Sistemi Avanzati Innovativi per lo Stelo Femorale di Protesi d'Anca)

3. Founder Department of Life Sciences (Arabian Gulf University, Bahrein) 2019–2023

Title: A combined virtual and experimental approach for High Throughput Screening of Protein Disulfide Isomerases inhibitors to identify novel anti-inflammatory agent. Unit responsible (Research Objective #4: Set up a rational drug design strategy based on active compounds identified by the screening and synthesize more potent and specific leads)

4. Programma Ricerca di Ateneo UNICT 2020–22 linea 2; project number 57722172126 2020–2024

Title: Modulazione dell'Eme ossigenasi nella Terapia Antitumorale (META). Principal Investigator

COMPLETED RESEARCH SUPPORT

1.	Piano per la ricerca 2016-2018, linea di intervento 2 – University of Catania	2016–2018
	Title: Targeting heme oxygenase-1 to improve cancer therapy	
2.	Finanziamento delle attività base di ricerca – MIUR	2017–2018
З.	PRIN 2015	2015–2017
	Title: Early neuroprotective and anti-inflammatory treatment to prevent the developmeretinopathy	ent of diabetic
4.	FIR – University of Catania	2014–2015
	Title: Ruolo dello stress ossidativo e dell'HO-1 nelle complicanze del diabete: effetto di loro derivati sintetici in un modello sperimentale <i>in vivo</i> .	di sostanze naturali e/o
5.	PRIN 2003	2003–2005
	Sviluppo di ligandi selettivi per i recettori dell'endotelina	

TEACHING ACTIVITIES

1. MSc Pharmacy – From 2011 to date

Analysis of Inorganic Substances of Pharmaceutical Interest and Good Practices in the Laboratory, 6 ECTS II year, (A-L course)

Analysis of Inorganic Substances of Pharmaceutical Interest and Good Practices in the Laboratory, 6 ECTS – II year, (M-Z course)

- BSc Applied Pharmaceutical Science From 2009 to date Pharmaceutical Biotechnology Applied to Officinal Plants (6 ECTS, II year)
- 3. MSc Applied Chemical and Pharmaceutical Technologies From 2007 to 2011 Analysis of Drugs, part I (4 ECTS, II year)
- 4. BSc Molecular Medicine (Arabian Gulf University) From 2022 to date Drug design, evaluation, development, and Delivery (1 ECTS, I year)