

## PERSONAL INFORMATIONS

📍 University of Bari "Aldo Moro"  
Department of Pharmacy-Drug Sciences  
Via E. Orabona, 4 Campus "E. Quagliariello"

☎ +390805442734 📱 Replace with mobile number

✉ [paola.vitale@uniba.it](mailto:paola.vitale@uniba.it)

🌐 <https://www.uniba.it/docenti/vitale-paola>

## WORK EXPERIENCE

2022 -

### University Associate Professor

Academic sector: Organic Chemistry (SSD CHIM/06)

University of Bari "Aldo Moro", Department of Pharmacy-Drug Sciences, Via E. Orabona, 4.

<https://www.uniba.it/docenti/vitale-paola>

- Teaching: Organic Chemistry (Master degreee Course in Pharmacy (5-yr degree course);
- Mentoring: master graduated students in "Pharmacy" and "Chemistry and Pharmaceutical Technology" (University of Bari, Italy); PhD (1 under supervision) in "Drug Sciences";

2006 - 2022

### University Assistant Professor

University of Bari "Aldo Moro", Department of Pharmacy-Drug Sciences, Via E. Orabona, 4.

- Teaching:  
Organic Chemistry (Master degreee Course in Pharmacy (5-yr course) 2010-2022;  
Modern synthesis in organic chemistry (PhD Course in "Drug Sciences") 2019-2020;
- Mentoring: 14 graduates in "Pharmacy"; 12 in "Chemistry and Pharmaceutical Technology" (University of Bari, Italy);  
PhD supervisor: "Chemical and Molecular Sciences" (1); Pharmacy-Drug Sciences (1);  
Academic sector: Organic Chemistry (SSD CHIM/06)

2013 - 2014

Two Career breaks for materity leaves

## EDUCATION AND TRAINING

2004 - 2006

Post doc fellow

University of Bari "Aldo Moro", Department of Pharmacy-Drug Sciences, Via E. Orabona, 4.

- New methodologies in Organic synthesis, Heterocycles chemistry, Multinuclear Magnetic Resonance, Spectroscopic Structure determination for SAR studies applications.

2003 - 2001

PhD in Organic Chemistry- School of Drug Sciences

University of Bari "Aldo Moro", Department of Pharmacy-Drug Sciences, Via E. Orabona, 4.

- Thesis: New synthetic methodologies of pharmacological active isoxazoles. Mentors: Prof. L. Di Nunno and A. Scilimati.

from 3-2-2003 to 13-6-2003 ▪ Center of Excellence on Aging (CEA) of the University of Chieti <https://www.cast.unich.it/en/about-us/history>,. Research topic: "Isoxazole derivatives and their use as cyclooxygenase inhibitors". under the supervision of Prof. Paola Patrignani. The scientific collaboration and the multidisciplinary results have been subject of 3 publications in international scientific journals, 4 Communications at national and international conferences; 6 Italian and international patents.

1995 - 2000

M.Sc. degree (summa cum laude) in Chemistry and Pharmaceutical Technology" 5-year degree course; Mentor: Prof. Leonardo Di Nunno)

- Thesis: "Investigations on the stereo- and regioselective functionalization of 5-alkyl-3-arylisoaxazoles"

### Awards

2000 - Academic Year Best graduated Of the Pharmacy Faculty

### Editorial activity

<https://publons.com/researcher/1189029/paola-vitale/>;

- "Organic Chemistry" Section Board - Molecules (MDPI)
- Guest Editor fCatalysts (MDPI) Special Issue: "Chiral Building Blocks via Asymmetric Catalysis"
- Guest Editor Molecules (MDPI) Special Issue: "Chemoenzymatic Synthesis and Application"

- Invited conferences** Invited Lecture. 28th ECHC- European Colloquium On Heterocyclic Chemistry- Lecce, 2-5-september 2018 "3-Arylisoxazolines and 3-arylisoxazoles from reaction of aryl nitrile oxides and enolates: synthesis and reactivity IL7.
- Grants**
- MIUR-PRIN 2020SBNHLH\_003 "REPLAY: REconnecting PLAstics life cycle to biogeochemical cycles by sustainable hydrolysis and Yeasts;
  - MIUR-PRIN 2017A5HXFC\_002 "Unlocking Sustainable Technologies Through Nature-Inspired Solvents"
  - Research contract with "Aferetica s.r.l." for "NATURE" Project [New Approach for Renal Uremic Toxins] Aiuto a sostegno dei Cluster tecnologici regionali.
  - PI of Projects financially supported by the University of Bari "A. Moro":
    - a) 2015-2016 "Processi bio-assistiti o chemoenzimatici innovativi per la sintesi stereoselettiva a basso impatto ambientale di "building blocks" di interesse farmaceutico enantiomericamente arricchiti." fondi Ateneo Quota ordinaria supporto alla Ricerca Prot.72904-VIII/2 del 15/10/18 e Rettifica Prot. 74470-VIII/2 del 18/10/18;
    - b) 2017-2018 "Sviluppo di nuove metodologie bio- e metallo-catalizzate eco-sostenibili per la sintesi di intermedi, prodotti per la chimica fine e/o di target farmaceutici" Ripartizione Fondo ordinario Ricerca scientifica (ex 60%) Prot. n. 25308 – VIII/2 del 21/04/2020.
  - AIRC MFAG (Id 17566) "Inibitori COX in Combinazione con Chemioterapici per il trattamento del Mieloma Multiplo.
  - National Operative Programme for Research and Competitiveness (PON) 2007–2013 (PON01\_00862), co-funded by MIUR, on "An Integrated Technological Platform for the Development of New Drugs for Rare Diseases" (C.I.N.M.P.I.S.'s Unit of Bari) with Dompè (PI), AXXAM, Biogem, Medestea, Cnada Inc, IBP, CNR.
  - International bilateral Vigoni Project (2012–2013) "Functional Organoboron and Organolithium Intermediates: Structural Characterization and Applications in Stereoselective Synthesis and Material Sciences" in collaboration with Prof. Dietmar Stalke (University of Göttingen, Germany).  
Reti di Laboratori – Produzione Integrata di Energia da Fonti Rinnovabili nel Sistema Agroindustriale Regionale" program funded by the "Apulia Region Project Code 01". (Intervento cofinanziato dall'Accordo di Programma Quadro in materia di Ricerca Scientifica – Il Atto Integrativo – PO FESR 2007–2013, Asse I, Linea 1.2-PO FSE 2007–2013 Asse IV "Investiamo nel vostro futuro".
- Patents**
- 1) "Procedimento sostenibile per la sintesi di molecole ad attività antistaminica in solventi non convenzionali biodegradabili (Deep Eutectic Solvents)" A. Quivelli, V. Capriati, F. Rossi, P. Vitale, F. Perna, J. Garcia Alvarez (2021). Università di Bari "A. Moro", University of Oviedo, MI2021000031322.
  - 2) MOFEZOLAC AND TWO DERIVATIVES FOR USE IN THE TREATMENT OF NEUROINFLAMMATION" Scilimati A., Perrone M. G., Vitale P. (2021). Università di Bari "A. Moro." , EP17723517. <https://register.epo.org/application?number=EP17723517>.
  - 3) "Heterocycles and their radiolabeled analogs useful as COX-1 selective inhibitors" Scilimati A., Perrone M. G., Vitale P. (2019). Università di Bari "A. Moro." , EP 2 948 187 B1 (<https://register.epo.org/application?number=EP14708640>)
  - 4) "MOFEZOLAC DERIVATIVES AS MULTI-FUNCTIONS SELECTIVE COX-1 INHIBITORS". Scilimati A., Perrone M. G., Vitale P. (2017), Università di Bari "A. Moro." Patent Cooperation Treaty Application WO2017187352, Patent number EP3448840. <https://patents.google.com/patent/WO2017187352A1>.
  - 5) "Novel heterocycles and their radiolabeled analogs useful as COX-1 selective inhibitors". Scilimati A., Perrone M.G., Vitale P. (2014). WO2014115020, University of Bari "A. Moro" European Patent Application; Patent number EP2948187. <https://patents.google.com/patent/WO2014115020A1>.
  - 6) "Procedimento per la sintesi di alcoli chirali mediante impiego di Lactobacillus reuteri". Agrimi G., Ricci M. A., Palmieri L., Pisano I., Vitale P., Perna F. M., Scilimati A. (2014). MI2014A002079, Università Degli Studi Di Bari.
  - 7) "Use of Isoxazole Derivatives As Cyclooxygenase Inhibitors". Scilimati, A.; Di Nunno, L.; Vitale, P.; Patrignani, P.; Tacconelli, S.; Porreca, E.; Stuppia, L. (2010). EP2246337, Università Di Bari, Università Di Chieti. <https://patents.google.com/patent/EP2246337A1/en>.
  - 8) "Functionalized diarylisoxazoles inhibitors of cyclooxygenase". Scilimati, A.; Vitale, P.; Di Nunno, L.; Patrignani, P.; Tacconelli, S.; Capone, M.L. (2008). US7989450B2, Università degli Studi di Bari e Università degli Studi di Chieti. <https://patents.google.com/patent/US7989450B2>.
  - 9) "Isoxazole derivatives and their use as cyclooxygenase inhibitors". Scilimati A, Di Nunno L, Vitale P., Patrignani P, Tacconelli S, Porreca E, Stuppia L (2006). EP1706390. Università degli Studi di Bari e Università degli Studi di Chieti. <https://patents.google.com/patent/EP1706390B1/en?oq=EP1706390>.
  - 10) "Diarilissosazoloni funzionalizzati inibitori della cicloossigenasi" Scilimati, A.; Vitale, P.; Di Nunno, L.; Patrignani, P.; Tacconelli, S.; Capone, M.L. Brevetto Italiano 2005, MI 2005A001320. Università degli Studi di Bari.
  - 11) "Isoxazole derivatives and their use as cyclooxygenase inhibitors" Scilimati A, Di Nunno L, Vitale P., Patrignani, P.; Tacconelli, S.; Porreca, E.; Stuppia, L. PCT Int. 2005, WO2005068442. Università degli Studi di Bari, Università degli Studi di Chieti. <https://patents.google.com/patent/WO2005068442A2>.
  - 12) "Derivati isossazolici e loro impiego come inibitori della cicloossigenasi", Di Nunno, L.; Vitale, P.; Scilimati, A.; Tacconelli, S.; Patrignani, P. Brevetto Italiano 2004, MI2004A000019. Università degli Studi di Bari, Università degli Studi di Chieti.

## ADDITIONAL INFORMATIONS

- Organizing Committee** "CINMPIS Ventennium Conference", Bari, 29-30 September 2014. Guest Prof. Ei-ichi Negishi - (Purdue University) Nobel Prize for Chemistry in 2010.
- Doctorate School 2006–2017** Board of Directors' member of the Doctorate School in "Chemical and Molecular Sciences"
- Erasmus Coordinator 2021–** Coordinator of Erasmus+ programme with The University of Oviedo (Spain)

**Publications 2001-2022** 75 publications in peer-review journals;  
total Impact Factor (IF) 357;  
(average IF/paper) 5.7/75  
1552 total number of citations;  
25 H index

The research work was the subject of oral communications (8), posters at national and international conferences (53), national and international patents (11), book chapters (5), conference proceedings, (75) publications in international journals [in many of which he is first author (26), Corresponding Author (17), last author (5)], see detailed list.

### Cover & Highlights

- 1- Cover Feature: *Chem. Eur. J.*, 2020, 26, 8742-8748: <https://chemistry-europe.onlinelibrary.wiley.com/doi/pdf/10.1002/chem.202001521>;
- 2- Cover Feature: *ChemSusChem*, 2020, 13, 3583-3588: <https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cssc.202001513>;
- 3- Cover Feature: *Catalysts* 2018, 8, 55: [https://www.mdpi.com/2073-4344/8/2?view=compact&listby=type&page\\_no=1](https://www.mdpi.com/2073-4344/8/2?view=compact&listby=type&page_no=1).
- 4- Highlight: *Angew. Chem. Int. Ed.*, 2017, 56 (34), 10200-10203 in *Synfacts 2017*, 13(10), 1074 DOI: 10.1055/s-0036-1591265
- 5- Highlight: *Current Organic Chemistry*, 2013, 17, 1986-2000 in CHEMINFORM: Isocyclic Compounds CHEMINFORM Volume 45, issue 2, 2013, <https://doi.org/10.1002/chin.201402242>;
- 6- Highlight *Synthesis (Germany)* 2013, 45, p. 2940-2948 in CHEMINFORM: Isocyclic Compounds CHEMINFORM Volume 45, issue 2, 2013, <https://doi.org/10.1002/chin.201402224>;
- 7- Highlight: *Tetrahedron-Asymmetry*, 2013, 24, 389-394, in CHEMINFORM: Isocyclic Compounds CHEMINFORM Volume 44, issue 35, 2013, <https://doi.org/10.1002/chin.201335063>;
- 8- Spotlights on our sister journals: *Chem. Med. Chem*, 2012, 7, 629-641 highlighted in *Angew. Chem. Int. Ed.* 14/2012. Isoform selectivity. *Angew. Chem. Int. Ed.* 2012, 51, 3299. Doi: 10.1002/anie.201289914;
- 9- Highlight: *Synthesis*, 2010, 18, 3195-3203. In CHEMINFORM: Isocyclic Compounds CHEMINFORM Volume 42, issue 3, 2011, <https://doi.org/10.1002/chin.201103082>;
- 10- Highlight: *Tetrahedron* 2008, 64, 11198-11204 in CHEMINFORM: Heterocyclic Compounds. CHEMINFORM Volume 40, Issue 16, April 21, 2009. <https://doi.org/10.1002/chin.200916171>;
- 11- Highlight: *Tetrahedron* 2005, 61, 11270-11278. In CHEMINFORM. Volume 37, Issue 10, March 7, 2006, DOI:10.1002/chin.200610141;
- 12- Highlight: *Tetrahedron* 2002, 58, 2659-2665 in CHEMINFORM Volume 33, Issue 33, August 20, 2002, <http://onlinelibrary.wiley.com/doi/10.1002/chin.200233137/full>.