



## STEFANIA BUTINI

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Sex female | Date of birth 25/07/1967 | Nationality Italian

### WORK EXPERIENCE

Current and previous positions  
1<sup>st</sup> May 2024 to date

2015 - 2024

**Full Professor of Medicinal Chemistry (CHIM 08)**

University of Siena, University of Siena, Siena, Italy

**Associate Professor of Medicinal Chemistry (CHIM 08)**

University of Siena, Siena, Italy

2004 - 2015

**Full time Permanent Researcher - Medicinal Chemistry (CHIM 08)**

University of Siena, Siena, Italy

2002 - 2004

**Research Assistant - Medicinal Chemistry (CHIM 08)**

University of Siena, Siena, Italy

2000-2001

**Contract for Scientific Collaboration** entitled "New atypical antipsychotics"

University of Siena, Siena, Italy

### EDUCATION AND TRAINING

2001

**PhD in Pharmaceutical Sciences**

University of Siena, Siena, Italy

1997

**Laurea in Chemistry and Pharmaceutical Technologies** (110/110 cum laude)

University of Siena, Siena, Italy

### VISITING ACADEMIC POSITIONS

1999-2000,

**Research fellow** in the laboratories Prof Håkan Wikström (University of Groningen, NL) where she developed compounds potentially useful for treatment of cocaine-craving or of Parkinson's Disease

### WORK ACTIVITIES

Academic Activity

At University of Siena

2016 - 2021

**Member of the "Presidio di Qualità"**

2006 to date

**Teaching member (and reference member) of the doctorate program** in "Chemical and Pharmaceutical Sciences"

2002 - 2013

**Tutor appointed by the Faculty of Pharmacy of "Percorsi di Qualità"**

a project between University of Siena and Secondary High School

2011 - 2012

**Member (by Rector's nomination) of the Commission "formazione continua"**

2007 - 2012

**President of the Teaching Committee of 'Scientific Information on Medicinal Products'** (Informazione Scientifica del farmaco- ISF- Classe L-24)

2006 - 2007

**Member of the Teaching Committee of 'Scientific Information on Medicinal Products'** (Informazione Scientifica del farmaco- ISF- Classe L-24)

2010 - 2016

**Coordinator of Erasmus agreement** with University of Copenhagen

2018 to date

**Coordinator of Erasmus agreement** with University of Dusseldorf

Administrative role and position  
responsibility

2012 - 2015

**Participant of the COST Action CM1103** "Structure-based drug design for diagnosis and treatment of neurological diseases: dissecting and modulating complex function in the monoaminergic systems of the brain"

2016 - 2020

**Participant of the COST Action CA1513** "Multi-target paradigm for innovative ligand identification in the drug discovery process" (MuTaLig)

2005

**Organizing Committee of the 2nd COSTB22 Congress on "Drug discovery and development for Parasitic diseases"** Siena, 29 September-1 October 2005

2014 to 2020

**Organizing Committee of the "European School in Medicinal Chemistry" ESMEC** (<http://eventi.uniurb.it/esmec/>)

2017

**Co-Chair and Symposium organizer at the 6<sup>th</sup> Conference of the Mediterranean Neuroscience Society, Malta**

### EDITORIAL ACTIVITY

2014-2015

**"Topic Editor"** for the journal *Frontiers in Pharmacology* for the section "Structural needs for multi-target compounds in the treatment of neurodegenerative disorders"

2015 - to date

**Editorial Board** of the journal *CNS Neuroscience & Therapeutics*

2020 - to 2023

**Advisory Editorial Board** of the *Journal of Medicinal Chemistry*

2021 - to date

**Editorial Board** of the *International Journal of Molecular Sciences*

2009 - to date

**Referee for international journals with high IF pertinent with the SSD CHIM/08**

Membership of scientific Societies

1998 - to date

**Member of the Società Chimica Italiana (SCI)** section Medicinal Chemistry

**PRIZES AND AWARDS**

2022

**The manuscript** "Synthesis of Unsymmetrical Squaramides as Allosteric GSK3beta Inhibitors Promoting beta-Catenin-Mediated Transcription of TCF/LEF in Retinal Pigment Epithelial Cells" of which she is corresponding Author, **was selected for being highlighted as front cover of ChemMedChem Issue 24 of 2022**

## Local recognitions

2001

**Recipient of research funds "Young Researchers 2000"** University of Siena for a project entitled "Design, Synthesis and Pharmacological Evaluation of Novel D3 Receptor Partial Agonists as Therapeutic Agents to Reduce Cocaine Abuse Induced Effects"

2017

**Recipient of Funding for Basic Research Activities - FFABR** (Finanziamento delle attività base di ricerca - FFABR): Score of scientific production: 82  
<http://www.anvur.org/attachments/article/1204/BeneficiariFFABRAssociati.pdf>

## Academic recognition

2010

**Habilitation to be associate professor of Medicinal Chemistry** (CHIM08)

2012

**National Scientific Habilitation to be associate professor of Medicinal Chemistry** (CHIM08)

2012 and 2018

**National Scientific Habilitation to be full professor of Medicinal Chemistry** (CHIM08)

## Other WORK ACTIVITIES

## Referee for (inter)national projects

2011

**External Referee** within the actions of the University of Milano for funding research

2013

**Referee for the "Netherlands Organization for Scientific Research (NWO)"** for funding research

2014- to date

**Referee for the MIUR (REPRISE)** for: SIR (Scientific Independence of young Researchers) program; VQR 2011-2014; "BluSKy research" projects at University of Pavia; "Research Grants 2017" projects at University of del Piemonte Orientale; FISR2020 – "Evaluation of research proposals COVID-19"; for 2 research projects funded in the frame of the ARTI PUGLIA

## Committees for PhD

2018-2021

**Remote reviewer** for: "MEDICINA TRASLAZIONALE" of the University of Calabria XXX cycle; "Drug Discovery and Development" of the University of Salerno XXX cycle; doctorate school at Central University of Punjab department of Pharmaceutical Sciences and Natural Products; "Drugs Biomolecules and Health Products" of the University of Parma XXXIII cycle

June 2013 and March 2014

**External Member** of the "Assessment Committee" for PhD thesis for the Faculty of "health and medical sciences" of the University of Copenhagen

March 2021

**Committee for the final exam** of the doctorate school in "Chemistry & Biology" XXXIII cycle at University of Piemonte Orientale

## Committees for RTDA/B

August 2022

**Member of the selection committee** for a position (CHIM08) at the University of Perugia

June 2023

**Member of the selection committee** for a position (CHIM08) at the University of Milan

December 2023

**Member of the selection committee** for a position (CHIM08) at the University of Naples

## Committees for State Exams for the National Professional Habilitation for Pharmacist

**Member of the committee** - June 2012 and two sessions of 2021

**PRESIDENT OF THE COMMITTEE**- two sessions of 2022 and 2023

## TEACHING ACTIVITIES,

## PhD SUPERVISION and MENTORING

## Teaching Activity

2001 – to date

**Since more than 20 years** she has taught many courses of the SSD CHIM/08 at University of Siena

2004 – to date

She was **tutor or co-tutor** for >40 experimental master theses

## PhD Supervision

2012 to date

**Tutor of four PhD students** at the XXVIII, XXX, XXXV, and XXXVIII cycle the "doctorate program in chemical and pharmaceutical sciences"

**Co-tutor of two ESRs** of the EU ITN project "TRACT" and PhD students of the XXXII cycle of the "doctorate program in chemical and pharmaceutical sciences" of the University of Siena

## Research fellows and post-doc

## Mentoring

2013 - to date

She has been **supervisor of seven research fellows and three post-doc**

## FUNDING (current and past)

## SCIENTIFIC RESPONSIBILITY of funded grants on a competitive basis

2023 – to date

**PRIN 2022:** PRIN 20227S3BM7 A chemical biology approach towards a Synthetic Lethality-based Anticancer therapy through the use of RAD51/RAD52 inhibitors (SyLAR)

2019 – to date

**PRIN 2017:** PRIN 20175SA5JJ\_003 "Exploiting the EndoCannabinoid System to control inflammation and promote neuroprotection and myelin repair (ExECS)".

2015-2017

**Istituto Toscano Tumori (ITT) 2013:** "Overcoming chemo-resistance: elucidation of the molecular mechanism of pyrrolo-1,5-benzoxazepines (PBOs) as innovative anticancer agents".

2014 - 2017

**PRIN 2012:** PRIN 201274BNKN "Design and development of novel agents for the treatment of parasitic diseases".

2013-2015	<b>Tuscany Region POR CReO FESR 2007-2013 BANDO UNICO R&amp;S (2012);</b> "Development of multimodal imaging stems for the analysis of report genes in animal models in vivo and ex vivo" (SMAG).
2011 - 2013	<b>PRIN 2009:</b> PRIN 2009BPZ5 "Development of antimalarials active against the erythrocytic phase of the Plasmodium falciparum life cycle".
<b>PARTICIPATION</b>	
<b>to (inter)national funded grants on a competitive basis</b>	
2022 – to date	<b>PNRR:</b> "THE - Tuscany Health Ecosystem" Ecosistema dell'innovazione sulle scienze e le tecnologie della vita in Toscana - Spoke 7 – "development of targeted therapies for rare cancers (hairy cell leukemia and medulloblastoma), idiopathic pulmonary fibrosis and retinitis pigmentosa".
2020– to date	<b>Tuscany Region - Health Research Program 2018. LINE 1.</b> Proj. "Epigenetic and proteomic approaches towards innovative targeted therapies for idiopathic pulmonary fibrosis" HIDE-IPF, DD 8245 dated 26/05/2020.
2020– to date	<b>Tuscany Region - Health Research Program 2018. Line 3.1.</b> Proj. PRECISE-CLL "Development of personalized diagnosis and innovative therapies for resistant CLL", DD 975 dated 16/01/2020.
2018 - 2021	<b>Regione Toscana POR FSE 2014-2020 (Asse A – Occupazione) Progetti Congiunti di Alta Formazione Attraverso l'attivazione di Assegni di Ricerca (ANNO 2017)</b> – "Medicina di precisione e malattie rare" (MePreMaRe). Role: participant a co-tutor of a research fellow
2016 - 2021	<b>EU-H2020-MSCA-ITN-2016;</b> Project number 721906 TRACT "Training in Cancer Mechanisms and Therapeutics". Role: participant and co-tutor of two ESRs
2010 - 2013	<b>Tuscany Region - Health Research Program 2009.</b> "Investigation of the mechanism of action of paclitaxel and development of peptidomimetics as innovative antitumor agents".
2009 - 2012	<b>EU-FP7- Marie Curie:</b> InterMalTraining – Project number 215281-1 "Intervention Strategies against Malaria".
2008 – 2010	<b>PRIN 2007:</b> PRIN 20073EWPF9, "Design and synthesis of novel modulators neurotransmitter receptors".
2008 - 2009	<b>Fondazione Monte dei Paschi di Siena.</b> MPS 29815. "Development of novel antimalarial agents"
2007 - 2009	<b>EU-FP6 2005.</b> SpidERA for LIFE LSH-2005-3-1-037207. "Speeding collaborations in the Life Science and Health domain of the European Research Area and beyond".
2006 – 2008	<b>PRIN 2005:</b> PRIN 2005034807, "Design, synthesis and preliminary biological evaluation of new modulators of the receptors of the central nervous system".
2005 - 2010	<b>EU-FP6 2005,</b> AntiMal - Project number LSHP-CT-2005-018834, "Development of New Drugs for the Treatment of Malaria".
2002 - 2004	<b>PRIN 2002:</b> PRIN 2002038554, "Structural studies of functional domains in excitatory aminoacids transport systems (EAATs)"; "Design and synthesis of new specific ligands and study of their interaction with transporters".
<b>ADDITIONAL INFORMATION</b>	
<b>SCIENTIFIC ACTIVITY</b>	
<b>Research statement</b>	Her research activity focuses on the development of bioactive compounds with a special emphasis on cancer but also for CNS diseases, antiparasitic, and rare diseases. Exploration of chemistry and biology of synthetic organic molecules with therapeutic potential include target selection, rational design of innovative targeted therapies, new synthetic methodologies, and general strategies for synthesis, bioinformatics and the study of structure-function relationships aimed at HIT selection and HIT-to-LEAD transition. She is experienced in mentoring PhD and post-doc student and as Research Units' coordinator in National and International polycentric research projects dealing with drug development in various fields.
<b>Scientific production and quality</b>	
1999- to date	<b>Total number of publications in peer-review journals is &gt; 160, H index = 39 - total citations 4581</b> (source: Scopus, access date 29/09/2024) Full list of publications (Scopus): <a href="https://www.scopus.com/authid/detail.uri?authorId=6507753270">https://www.scopus.com/authid/detail.uri?authorId=6507753270</a> ORCID: <a href="https://orcid.org/0000-0002-8471-0880">https://orcid.org/0000-0002-8471-0880</a>
<b>Patents</b>	<b>Co-inventor of seven patents:</b> 1) WO2005097797(A2), PCT/IT2005/000182; 2) WO2006072608(A2), PCT/EP2006/050001; 3) WO2008043839(A1), PCT/EP2007/060888; 4) WO2008031888(A2), PCT/EP2007/059721; 5) WO2008101891(A1), PCT/EP2008/051923; 6) US20080293689(A1); PCT/IT2005/000182; 7) WO2010/105930 (A1); PCT/EP2010/052884
<b>Oral presentations</b>	
1999 – to date	She has participated as <b>speaker at national and international congresses or conferences</b> and by keeping 18 oral communications (9 of which were invited). Prof Butini was also invited to give two <b>lectures in European Doctorate Schools</b>
<b>Languages</b>	<b>Prof Butini has a very good knowledge of the written and spoken English language according to the Standards and Guidelines for Quality Assurance in the European Higher Education Area (ESG 2015)</b>