

POSITIONS AND HONORS

Positions and Employment

July 2017	Licence as Full Professor in medicinal chemistry
Dec 2015-	Associate Professor in Medicinal Chemistry
November 2014	Visiting Professor at the School of Pharmaceutical Sciences of Sun Yat-Sen University (Guangzhou, China)
January 2014	Licence as Associate Professor in Medicinal Chemistry
Dec 2007–2015	Assistant Professor at the Department of Pharmaceutical Sciences of the Faculty of Pharmacy of the University of Pisa.
may 2003–Dec 2007	Research Associate in the Medicinal Chemistry Laboratory at the University of Pisa with Professor Aldo Balsamo.
Jan 2000–may 2003	Ph.D. in Medicinal Chemistry (Dottorato di Ricerca in “Scienza del farmaco e delle sostanze bioattive”) with the thesis “Design and Synthesis of new non-steroidal antiinflammatory molecules as selective cyclooxygenase 2 inhibitors”, Department of Pharmaceutical Sciences, University of Pisa (Italy).
1993–1999	Degree in Pharmaceutical Chemistry and Technology (CTF) Department of Pharmaceutical Sciences, University of Pisa (Italy).

Other Experience and Professional Memberships

2000 -	Member, Italian Division of Medicinal Chemistry (SCI)
2010	Invited Editor for the book entitled Multifunctional Drugs: New Chimeras in Medicinal Chemistry; Transworld Research Network, Trivandrum, Kerala, India, 2010 [ISBN 978-81-7895-495-0].
2011	Guest Editor of Effects of Stereochemistry in Medicinal Chemistry and Drug Discovery Current Topics in Medicinal Chemistry, 11(7). (ISSN 1568-0266)
2011-2017	Editorial Board Member of TheScientificWorldJournal
2012	External Reviewer for the evaluation of research projects on Life and Health field from the Portuguese Foundation for Science and technology (FCT).
2012	Reviewer of MIUR research proposals (PRIN2012, Futuro in Ricerca 2013)
2013	Member of Technical Committee for the 3th ScienceOne Conference on Drug Discovery and Development (SCDDD2014), Dubai, 21-23 January 2014
2014	Reviewer for the International Workshop on Chemical Science and Pharmaceutical Research (CSPR2014) Beijing, 25-28 September 2014
2014	Member of Technical Committee on the International Conference on Pharmaceutical Sciences (ICPS2015) Dubai, January 21-23, 2015
2015	External Reviewer of research proposal submitted to Croatian Science Foundation: Life & Sciences
2015	Member of Technical Program Committee of the 2nd Int'l Conference on Bioorganic and Medicinal Chemistry (ICBMC 2016).
2016	Member of American Chemical Society (ACS)- Division of Medicinal Chemistry (Application ID:I4B71)
2016	Reviewer of MIUR research proposals (PRIN2015)
2016	Editorial board Member of The Open Medicinal Chemistry Journal
2016	Editorial Board Member of Scientific Reports
2016	Associate Editor of the OPEN ACCESS Journal: FRONTIER IN CHEMISTRY – SECTION MEDICINAL AND PHARMACEUTICAL CHEMISTRY
2016	Member of MuTaLig COST Action (CA15135)
2017	Associate Editor for Pharmacology of Anti-Cancer Drugs: Frontiers in Pharmacology and Frontiers in Oncology
2018	Editor of Research Topic IN FRONTIER IN CHEMISTRY (ISSN 22962646) MULTI-TARGET-DIRECTED LIGANDS (MTDL) AS CHALLENGING

RESEARCH TOOLS IN DRUG DISCOVERY: FROM DESIGN TO PHARMACOLOGICAL EVALUATION- SECTION Medicinal and Pharmaceutical Chemistry

- 2019 **Editorial Board Member** of MDPI-Molecules
 2019 **Special Issue Editor** of Molecules (ISSN 1420-3049). NEUROPROTECTIVE AGENTS TO TREAT DEMENTIAS - section "Medicinal Chemistry".
 2020 **Co-Guest Editor** of Molecules (ISSN 1420-3049). NEW SYNTHETIC METHODOLOGY FOR DRUG-LIKE MOLECULES - section: Organic Chemistry
 2020 **Section Board Member of Molecules**
 2020 **Editor of Research Topic** IN FRONTIER IN CHEMISTRY (ISSN 22962646) PROTEIN-PROTEIN INTERACTIONS: DRUG DISCOVERY FOR THE FUTURE- SECTION Medicinal and Pharmaceutical Chemistry -

Academic and professional achievements

- 2007- **Graduate Student Advisor** of many experimental theses in Pharmacy and CTF, University of Pisa/Department of Pharmacy/ Italy
 2011 – **Member of several juries** for the awarding of research grants and scholarships; University of Pisa, Department of Pharmacy (Italy)
 2009-2013 **Member of the Steering Committee** of the PhD Graduate School in "Science of Drugs and Bioactive Substances" at the University of Pisa
 2013 **Member of Final Examination** Committee of PhD Program in "Drug Sciences and Bioactive Substances" University of Pisa, Italy
 2017- **Member of the Steering Committee** of the PhD Graduate School in "Science of Drugs and Bioactive Substances" at the University of Pisa

AWARDS

2009 –Farindustria' Award

Motivation: "For the outstanding results achieved in the development of new anti-ischemic mitochondrial ATP-sensitive potassium channels openers"

2011- Young Researcher Award (University)

Motivation: "Optimal scientific production estimated on 31/12/2010"

2011 – Certificate of Appreciation from ACS Publications

Motivation: "for the valuable contribution and dedicated service in the peer review of manuscript submitted to ACS Journals"

2013 – Certificate of merit – Special Committee (Pari Opportunità – Unipi)

Motivation: "For the outstanding results achieved in the research field."

2013- Young Researcher Award (University)

Motivation: "Optimal scientific production evaluated on 31/12/2011"

2017 – **GSK Discovery Partnerships with Academia:** passed to second stage (not retained for funding).

SCIENTIFIC ACTIVITY

The scientific activity of Prof. Rapposelli has allowed her to gain extensive experience in several experimental fields, such as medicinal chemistry and cardiovascular pharmacology; (see www.rapposelligroup.com). She is the author of:

- 114 publications on peer-reviewed international scientific journals,
- 4 book's chapters,
- 12 patents and
- more than 150 congress communications.

The present rating of the citation index (H-index) is 25 (from the database Scopus). Google Scholar (H-index 29, i10-index 61). The main currently research topics are: (a) design and synthesis of new molecules targeting chemoresistance in cancer therapy (b) Synthesis of new multitarget drugs through the combination of pharmacophoric moieties for the neurodegenerative diseases (c) Synthesis of small molecules to treat GBM.

SOURCES OF EXTERNAL FUNDING (from 2014 to present PUBLIC AND PRIVATE)

2020-2023 Public Funding

Neurodegenerative disorders throughout the lifespan. Autophagy-dependent biomarkers for trial readiness from infantile neuronal ceroid-lipofuscinoses to senile dementias (DEM-AGING)

Funded by: *Bando Ricerca Salute 2018 - Progetto LINEA 1 (Coordinator: Santorelli F)*

Role of Unit Principal Investigator

2019-2022 Public Funding

Hydrogen Sulfide in the Vascular inflamm-Aging: role, therapeutic Opportunities and development of novel pharmacological tools for age-related cardiovascular diseases (SVAgO)

Funded by: *MIUR- Prin 2017 (PI: Calderone V)*

Role: Participant

2019-2020 Public Funding

Activation of lipolysis and pro-autophagic processes for the treatment of Alzheimer's syndrome

Funded by: *Bando DT University of Pisa*

Role: Principal investigator

2018-2020 Public Funding

Target / Multitarget approaches for the design and development of Small Molecules for innovative therapies

Funded by: *PRA2018_20 University of Pisa (PI: Rossello A.)*

Role: Participant

2018-2020 Public/Private Funding

PREVAGE - Development of new potential drugs for the prevention of cellular aging and neurodegenerative diseases

Funded by: *POR-FSE 2017 Regione Toscana*

Role: Principal Investigator

2015 to present Private Funding

Research project focused on the synthesis of new multitarget compounds for the treatment of multifactorial pathologies

Funded by: *International Society for Drug Development (ISDD) (Milan, Italy)*

Role: Scientific Director

2015-2016 Public Funding

Development of nitrogenous heterocyclic derivatives as modulators of cell life / death processes.

Funded by: *PRA2016_59 University of Pisa (PI: Da Settimo Federico)*

Role: Participant

2014 - 2015 Private Funding

Research project focused on design and synthesis of anticancer drugs

Funded by: *International Society for Drug Development (ISDD) (Milan, Italy)*

Role: Scientific Director

Complete List of Published Work in My Bibliography:

<https://www.rapposelligroup.com/publications>

Complete List of Published Work in My Bibliography:

<https://www.rapposelligroup.com/patents>