CURRICULUM VITAE
DOTT.SSA LUANA BAGNOLI

Dipartimento di Scienze Farmaceutiche.
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EDUCAZIONE E PRIMA ATTIVITA DI RICERCA

Luglio 1991	**Laureata in Chimica e Tecnologia Farmaceutiche (110/110 e lode),** Università di Perugia
Aprile 1992	**Idoneità alla professione di farmacista**. (235/250), Università di Perugia
Novembre 1991-Ottobre 1994	**Studi di dottorato nel gruppo di ricerca del Prof. Tiecco** Argomenti di ricerca: Processi di selenazione –deselenazione catalizzate da difenil diseleniuro per la sintesi di derivati γ-alcossi o γ-idrossi-α,β-insaturi da esteri, ammidi e nitrili β,γ-insaturi Nuove metodologie per la sintesi di composti eterociclici. Sintesi di butenolidi da acidi β,ψ-insaturi. Ciclofunzionalizzazioni di alchenil ossime per la sintesi di 1,2-ossazine e di nitroni ciclici Ciclofunzionalizzazioni di O-allil ossime e idrossilammine per la sintesi di isosazzolidine
Giugno 1995	**Ph.D in Scienze Chimiche** Con una tesi dal titolo: "*Chimica dei Composti Selenorganici. Nuovi approcci alla sintesi dei composti Etereociclici*" Supervisore Prof. M. Tiecco

POSIZIONE ACCADEMICA

1994 - 2004	**Collaboratore tecnico (VII Livello)** e dal 2001 **D1 (VIII Livello)** Facoltà di Farmacia, Università di Perugia
Novembre 2004-ad oggi	**Ricercatore** Dipartimento di Scienze Farmaceutiche, Università di Perugia
2018	Conseguita **l'Abilitazione Scientifica Nazionale a Professore di II fascia**

ATTIVITA' DI INSEGNAMENTO

a.a. 2003 -2010	"**Metodi Spettroscopici di Analisi "**(10 CFU), CdL in Controllo di Qualità nel Settore Industriale Farmaceutico Alimentare (CQSIFA)
a.a. 2010-2011	**"Chimica dei Composti Eterociclici"** (6 CFU), CdLM in Chimica e Tecnologie Farmaceutiche
a.a 2011 - 2016	"**Analisi dei Medicinali"**(6 CFU), CdLM in Farmacia

a.a 2016 –ad oggi	**Didattica integrative curriculare** **Chimica organica I** (12 o 14 ore) CdLM in Chimica e Tecnologia Farmaceutiche, **Chimica Organica Modulo I** (6 ore) CdLM in Farmacia, **Chimica delle Sostanze Organiche Naturali** (6 ore) CdLM in Farmacia **Metodi Spettroscopici di Analisi in Chimica e Tecnologia Farmaceutiche** (6 o 10 ore) CdLM in Chimica e Tecnologia Farmaceutiche,
a.a. 2020 –ad oggi	"**Chimica delle sostanze organiche naturali** (6 CFU), CdLM in Farmacia
Luglio 2021	**"Chimica organica",** Docenza UFC3 Corso di formazione "Esperto del ciclo di produzione nel settore chimico e farmaceutico" Avviso SKILLS Intervento 1. Codice SIRU FSE1420-20-1-81-130-DBD924A4. N. ore effettuate 18
1997 – ad oggi	Relatore di tesi di laurea (più di 45) Supervisore di 2 Ph.D. Partecipato a numerose commissioni di esame e di laurea

ATTIVITA' DI ATENEO

Membro della Commissione Paritetica per la Didattica del Dipartimento di Scienze Farmaceutiche per i trienni accademici 2016/2019 e 2019/2022

Membro del Dottorato in Scienze Farmaceutiche

ATTIVITA' SCIENTIFICA L'attività scientifica della Dott.ssa Bagnoli riguarda l'uso dei reagenti selenorganici nello sviluppo di nuove metodologie sintetiche. La ricerca si è rivolta alla realizzazione di sintesi asimmetriche, ad elevato grado di diastereo- ed enantio-selettività adatte alla preparazione di prodotti polifunzionali e in particolare alla sintesi di composti eterociclici. Recentemente l'interesse scientifico si è focalizzata su processi domino da vinil selenoni per la sintesi di derivati indolici di interesse biologico, e sulla sintesi di derivati indolici sulfonammidici quali inibitori dell'anidrasi carbonica. La dott.ssa Bagnoli è coautore di 92 articoli pubblicati su riviste internazionali, un capitolo di libro e di numerose comunicazioni a conferenze e meeting nazionali ed internazionali. È stata membro di progetti di ricerca nazionali e ha collaborato con numerosi gruppi di ricerca nazionali ed internazionali anche all'interno dell' International Network for Multidisciplinary Research on Selenium Sulfur and other Redox Catalysts (SeS Redox and Catalysis). La Dott.ssa Bagnoli ha svolto funzioni di revisore di progetti di ricerca per il FIRB. Svolge funzioni di referee per riviste internazionali fra le quali Molecules; Tetrahedron; Tetrahedron: Asymmetry; Tehrahedron Lett.; European Journal of Organic Chemistry; Symmetry; Current Organic Chemistry; Chemistry Open; Letters in Organic Chemistry; Research; Chem. Commun, etc.

ATTIVITA' EDITORIALE. È Section member della rivista Molecules (Sezione di Chimica Organica) ed editor di due Special Issue nella stessa rivista dai titoli :
1)Heterocycles: Synthesis, Biological activity and synthetic Applications;
2) Celebrating two Centuries of Research in Selenium Chemistry: state of art and New perspective.

PREMI E CITAZIONI

(vedi lista delle pubblicazioni)

Citazione in Synfacts "Highlights in Current Synthetic Organic Chemistry 2008, 7, 728

Tetrahedron Asymmetry: Most Cited Paper 2004-2007 Award.

INDICATORI BIBLIOMETRICI aggiornati a gennaio 2022

92 pubblicazioni **(WOS);**90 pubblicazioni **(SCOPUS)**

Total number of citations: 2282 **(WOS);**
Total number of citations: 2369 **(SCOPUS);**
Total number of citations: 2690 **(Google Scholar)**

H-index: 29 **(WOS);**
H-index: 30 **(SCOPUS);**
H-index: 32 **(Google Scholar)**

LISTA DELLE PUBBLICAZIONI

92) Mangiavacchi, F., Botwina, P., Menichetti, E., Bagnoli, L.; Rosati, O.; Marini, F.; Fonseca; S. F.; Abenante, L.; Alves, D.; Dabrowska, A.; Kula-Pacurar, A.; Ortega-Alarcon, D.; Jimenez-Alesanco, A.; Ceballos-Laita, L.; Vega, S.; Rizzuti, B.; Abian, O.; Lenardão, E. J.; Velazquez-Campoy, A.; Pyrc, K.; Sancineto, L., Santi, C.
Seleno-Functionalization of Quercetin Improves the Non-Covalent Inhibition of Mpro and Its Antiviral Activity in Cells against SARS-CoV-2
International Journal of Molecular Sciences, **2021**, *22*(13), 704895.

91) Palomba, M.; De Monte, E.; Mambrini, A.; Bagnoli, L.; Santi, C.; Marini, F.
A three component [3+2]-cycloaddition/elimination cascade for the synthesis of spirooxindolepyrrolizines.
Org. Biomol.Chem., **2021**, *19*, 667–676.

90) Mangiavacchi, F.; Dias, I. F. C.; Di Lorenzo, I.; Grzes, P.; Palomba, M.; Rosati, O.; Bagnoli, L.; Marini, F.; Santi, C.; Lenardao, E. J.; Sancineto, L.
Sweet Selenium: Synthesis and Properties of Selenium-Containing Sugars and Derivatives. *Pharmaceuticals* **2020**, *13* (9), 1–28.

89) Hellwig, P. S.; Peglow, T. J.; Penteado, F.; Bagnoli, L.; Perin, G.; Lenardão, E. J.
Recent Advances in the Synthesis of Selenophenes and Their Derivatives
Molecules **2020**, 25, 5907, doi: 10.3390/molecules25245907.

87) Araujo, D.R.; Lima, Y. R.; Barcellos, A. M.; Silva, M. S.; Jacob, R. G.; Lenardão,, E. J.; Bagnoli, L.; Santi, C.; Perin, G.
Ultrasound-Promoted Radical Synthesis of 5-Methylselanyl-4,5-dihydroisoxazoles
*Eur. J. Org. Chem***. 2020**, 586-592

86) Bagnoli, L.
Synthesis of Biologically Relevant Heterocycleic Compounds through the Chemistry of Selenium
TARGETS IN HETEROCYCLIC SYSTEM, **2019** VOLUME 23
DOI:http://dx.medra.org/10.17374/targets.2020.23.220

85) Marini, F.; Palomba, M.; Bagnoli, L. Santi, C.
Synthesis of Pyrrolidinols by Radical Additions to Carbonyls Groups
Proceedings **2019**, 41,20; doi:10.3390/ecsoc-23-06606

84) M. Palomba, E. Scarcella, L. Sancineto, L. Bagnoli, C. Santi, F. Marini.
Synthesis of Spirooxindole Oxetanes Through a Domino Reaction of 3-Hydroxyoxindoles and Phenyl Vinyl Selenone.
Eur. J. Org. Chem., **2019**, 31-32, Special Issue, 5396-5401.

83) M. Palomba, L. Sancineto, F. Marini. C. Santi, L. Bagnoli
A domino approach to pyrazino- indoles and pyrroles using vinyl selenones.
Tetrahedron, **2018**, *74*, 7156-7163.

82) M. Palomba, F. Trappetti, L. Bagnoli, C. Santi, F. Marini.
Oxone mediated oxidation of vinyl selenides in water.
Eur. J. Org. Chem., **2018**, 3914-3919.

81) Mangiavacchi, F.; Mollari, L.; Bagnoli, L., Marini F.; Santi, C.
Condensation of 2-aminomethylaniline with aldehydes and ketones for the fast one-pot synthesis of a library of 1,2,3,4-tetrahydroquinazolines under flow conditions
Chem. Heterocycl. Compd., **2018**, *54*, 478-481.

80) Dolciami, D.; Gargaro, M.; Cerra, B.; Scalisi, G.; Bagnoli, L; Servillo, G.; Della Fazia, M. A.; Puccetti, P.; Quintana, F.J.; Fallarino, F.; Macchiarulo, A.
Binding Mode and Structure-Activity Relationships of ITE as Aryl Hydrocarbon Receptor (AhR) agonist
ChemMedChem **2018**,13, 270-279.

79) Santi, C, Bagnoli, L.
Special issue "Celebrating two centuries of research in selenium chemistry: state of art and new

prospective
Molecules **2017**, **Santi, C.: Guest editor; Bagnoli, L.: Assistant Guest Editor**
78) L. Sancineto, F. Mangiavacchi, C. Tidei, L. Bagnoli, F. Marini, A. Gioiello, J. Scianowski, C. Santi
Selenium-Catalyzed Oxacyclization of Alkenoic Acids and Alkenols
Asian J. Org. Chem. **2017**, *6*, 988 –992.
77) G. Mazzeo, G. Longhi, S. Abbate, M. Palomba, L. Bagnoli, F. Marini, C. Santi, J.L. Han, V.A. Soloshonok, E. Di Crescenzo, R. Ruzziconi
Solvent-free, uncatalyzed asymmetric "ene"reactions of N-tert-butylsulfinyl-3,3,3-trifluoroacetaldimines: a general approach to enantiomerically pure α-(trifluoromethyl) tryptamines
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76) E. J. Lenardão, E. L. Borges , G. Stach, L. K. Soares , D. Alves, R. F. Schumacher, L. Bagnoli, F. Marini, G. Perin
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75) B. Monti, C. Santi, L. Bagnoli, F. Marini, L. Sancineto
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74) C. Tomassini, F. Di Sarra, B. Monti, L. Sancineto, L. Bagnoli, F. Marini, C. Santi
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73) M. Palomba, E. Vinti, F. Marini, C. Santi, L. Bagnol
Synthesis of oxazino[4,3-*a*]indoles by domino addition-cyclization reactions of (1H-indol-2-yl)methanols and vinyl selenones in the presence of 18-crown-6
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72) Santi, C.; Jacob, R. G.; Monti, B.; Bagnoli, L.; Sancineto, L.; Lenardao, E.J.
Water and Aqueous Mixtures as Convenient Alternative Media for Organoselenium Chemistry
Molecules **2016**, *21*, 1482, 17 pages
71) G. Bellino, M. Scisciani, J. P. Vargas, L. Sancineto, L. Bagnoli, F. Marini, D. S. Ludtke, E. . J Lenardao, C. Santi
Reaction of Acyl Chlorides with In Situ Formed Zinc Selenolates: Synthesis of Selenoesters versus Ring-Opening Reaction of Tetrahydrofuran
Journal of chemistry, **2016**, DOI: 10.1155/2016/284914
70) M. Palomba, L. Rossi, L. Sancineto, E. Tramontano, A. Corona, L. Bagnoli, C. Santi, C. Pannecouque, O. Tabarrini, F. Marini
A New Vinyl Selenone-Based Domino Approach to Spirocyclopropyl Oxindoles Endowed with Anti-HIV RT Activity
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69) L. Sancineto, C. Tidei, L. Bagnoli, F. Marini, V. Lippolis, M. Arca, E. J. Lenardão, C. Santi
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68) L. Sancineto, M. Palomba, L. Bagnoli, F. Marini, C. Santi
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67) M. Palomba, L. Bagnoli, F. Marini C. Santi, L. Sancineto
Recent Advances in the Chemistry of Vinyl Chalcogenides
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66) L. Sancineto, A. Mariotti, L. Bagnoli, F. Marini, J. Desantis, N. Iraci, C. Santi, C. Pannecouque, O. Tabarrini
Design and Synthesis of DiselenoBisBenzamides (DISeBAs) as Nucleocapsid Protein 7 (NCp7) Inhibitors with anti-HIV Activity
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65) L. Sancineto, C. Tidei, L. Bagnoli, F. Marini, E. J Lenardão, C. Santi
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64) C. Tidei, L. Sancineto, L. Bagnoli, B. Battistelli, F. Marini, C. Santi
A Recyclable Biphasic System for Stereoselective and Easily Handled Hydrochalcogenations
Eur. J. Org. Chem., **2014**, 5968–5975.
63) S. Sternativo, B. Battistelli, L. Bagnoli, C. Santi, L. Testaferri, F. Marini
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61) L. Bagnoli, S. Casini, F. Marini, C. Santi, L. Testaferri
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60) P. Ronchi; C. Scarponi; M. Salvi, S. Fallarini; L. Polito; E. Caneva; L. Bagnoli*, L. Lay
Synthesis of a Structural analogue of the Repeating Unit from streptococcus pneumonite 19F Capsular Polysaccharide based on the Cross- methathesis-Selenocyclization reaction sequence.
J. Org. Chem. **2013**, *78*, 5172-5183
59) C. Santi, R. Di Lorenzo, C. Tidei, L. Bagnoli, T. Wirth
Stereoselective Selenium catalyzed Dihydroxylation and Hydroxymethoxylation of Alkenes
Tetrahedron **2012***, 68*, 10530- 10535
58) L. Bagnoli, C. Scarponi, M. G. Rossi, L. Testaferri, M. Tiecco.
Synthesis of Enantiopure 1,4-Dioxanes, Morpholines, and Piperazines from the Reaction of Chiral 1,2-Diols, Amino Alcohols, and Diamines with Vinyl Selenones."
Chem. Eur. J. **2011,** *17,* 993-999
57) Bagnoli L., Cacchi S., Fabrizi G., Goggiomani A., Scarponi C., Tiecco M.
Diastereoselective Synthesis of Hexahydro-3H- pyrrolizin-3-ones through Pd-catalyzed Carboamination
J. Org. Chem. **2010**, *75*, 2134-2137
56) Bagnoli L., Scarponi C., Testaferri L., Tiecco M.
Preparation of both enantiomers of cyclopropane derivatives from the reaction of vinyl selenones with di - (-)-bornyl malonate"
Tetrahedron: Asymmetry **2009**, *20*, 1506-1514.
55) M. Tiecco, L. Testaferri, F. Marini, S. Sternativo, F. Del Verme, C. Santi, L. Bagnoli, A.Temperini
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Citato su **Synfacts** "Highlights in Current Synthetic Organic Chemistry" **2008**, *7*, 728.
54) Tiecco Marcello, Testaferri Lorenzo, Bagnoli Luana, Scarponi Catalina.
Selenium -promoted synthesis of enanantiopure octahydroindolizines, hexahydro-3H-pyrrolizin- 3-ones
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53) M. Tiecco, L. Testaferri, L. Bagnoli, C. Scarponi, A. Temperini, F. Marini, C. Santi
Selenium Promoted Synthesis of Enantiopure Pyrrolidines Starting from Chiral Aminoalcohols
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Synthesis of Enantiomerically Pure β-Azidoselenides Starting from Natural Terpenes.
Tetrahedron, **2007** 12373-12378.
51) M. Tiecco, L. Testaferri, A. Temperini, R. Terlizzi, L. Bagnoli, F. Marini, C. Santi.
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50) M. Tiecco, L. Testaferri, A. Temperini, R. Terlizzi, L. Bagnoli, F.Marini, C.Santi
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49) M. Tiecco., L. Testaferri, F. Marini, S. Sternativo, C. Santi, L. Bagnoli, A. Temperini
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Tetrahedron, **2007** *63*, 5482-5489.
48) M. Tiecco, L. Testaferri, L. Bagnoli, C. Scarponi, A. Temperini, F. Marini, C. Santi
Organoselenium Mediated Asymmetric Cyclizations. Synthesis of Enantiomerically Pure 2-Substituted 1,6-Dioxaspiro[4,4]nonanes.
Tetrahedron: Asymmetry, **2006***,* 17, 2768-2774.
47) M. Tiecco, L. Testaferri, C. Santi, C. Tomassini, S. Santoro, F. Marini, L. Bagnoli, A. Temperini
Intramolecular Non-Bonding Interactions Between Selenium and Sulfur. Spectroscopic Evidence and Importance in Asymmetric Synthesis
Eur. J. Org. Chem., **2006**, 4867-4873.
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Synlett, **2006**, 587-590.
45) M. Tiecco, L. Testaferri, L. Bagnoli, F. Marini, C. Santi, A. Temperini, C. Scarponi, S. Sternativo

R. Terlizzi and C. Tomassini
Enantioselective Synthesis of Heterocyclic Compounds Mediated by Organoselenium Reagents.
Arkivoc, **2006**, 186-206.

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Phosphorus, Sulphur and Silicon, **2005***, 180*, 1071-1075.

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Asymmetric Syntheses Promoted by Organoselenium Reagents
*Phosphorus, Sulphur and Silicon***, 2005**, *180*, 729-740.

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Tetrahedron Asymmetry, **2005**, *16*, 2429-2435.

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36) M. Tiecco, L. Testaferri, L. Bagnoli, R. Terlizzi, A. Temperini, F. Marini, C. Santi, C. Scarponi.
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Tetrahedron: Asymmetry **2003**, *14*, 2651-2657.

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Synthesis of Enantiomerically Pure 1,4-Dioxanes from Alkenes Promoted by Organoselenium Reagents.
Tetrahedron: Asymmetry **2003**, *14*, 1095-1102.

30) M. Tiecco, L. Testaferri, C. Santi, C. Tomassini, F. Marini, L. Bagnoli, A. Temperini
Asymmetric Azidoselenenylation of Alkenes: A Key Step for the Synthesis of Enantiomerically Enriched Nitrogen-Containing Compounds.
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Asymmetric Synthesis of Thioamido Selenides. A Simple Synthetic Route to Enantiopure Thiazolines.

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Capitoli e monografie

1) F. Marini, L. Bagnoli, S. Sternativo
Enantioselective Catalysis for the Preparation of Organoselenium Compounds and Applications
In Organoselenium Chemistry: Between Synthesis and Biochemistry (Chapter 7)
2014 Bentham Science Publishers (ISBN 978-1-60805-839-6).