Curriculum Vitae et Studiorum

Salvatore Guccione

INFORMAZIONI PERSONALI

Nome: Salvatore Guccione

Data di Nascita: 20 Marzo 1962 (Catania).

Stato civile: coniugato con Maria Caruso. Tre figlie: Camilla 25 anni /Beatrice 11 anni/Dafne Maria 7 anni; un figlio : Alessandro 19 anni.

Sede di lavoro: Dipartimento di Scienze del Farmaco , Università degli Studi di Catania, viale Andrea Doria 6, Ed. 2 Città Universitaria, I-95125 Catania .

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LINGUE Buona conoscenza lingua inglese (scritta e parlata)

Titoli di studio

1980 Maturità Classica (56/60)

1986 Laurea in Farmacia (110/110 e lode) in data 3 Aprile. Facoltà di Farmacia, Università degli Studi di Catania.

Titolo della tesi: *Sintesi e la Valutazione dell' Azione Analgesica ed Antinfiammatoria di Eterocicli Policondensati contenenti 10 Anello Pirimidonico.*

1986: Abilitazione alla Professione di Farmacista (**prima sessione**).

1992 Dottore di Ricerca in Scienze Farmaceutiche.

Titolo della tesi: *Sintesi di Eterocicli Condensati Contenenti il Nucleo Pirazolico. Un nuovo approccio di studio nel campo degli Agenti Antiinfiammatori ed Analgesici.*

Legenda: - = ad oggi.

Afferenza: Dipartimento di Scienze del Farmaco 1986-

1984: Scuola Preliminare di Fotochimica (Università di Perugia).

1986-1988: Volontario o contrattista presso l' Istituto di Chimica Farmaceutica e Tossicologica (oggi Dipartimento di Scienze del Farmaco)Università degli Studi di Catania.

1988-1991: Studente del Dottorato di Ricerca in Scienze Farmaceutiche (IV ciclo).

1987-1991: Partecipazione al Corso Avanzato in Chimica Farmaceutica e Seminario Nazionale per Dottorandi in Scienze Farmaceutiche tenutisi a Bressanone (1987-1990) ed Urbino (1991).

1988: Corso su Moderne Tecniche Cromatografiche (Dipartimento Farmaco- Chimico, Università di Messina);

1992: Conseguimento del titolo di Dottore di ricerca in Scienze Farmaceutiche con una tesi "Sintesi di Eterocicli Policondensati contenenti il Nucleo Pirazolico: un nuovo approccio nel settore degli agenti analgesici-antinfiammatori".

1992-1993: Volontario o contrattista presso l' Istituto di Chimica Farmaceutica e Tossicologica (oggi Dipartimento di Scienze del Farmaco)Università degli Studi di Catania.

1993: Vincitore del concorso per Ricercatore di Chimica Farmaceutica (gruppo disciplinare C07X oggi C08X; settore concorsuale 03/D1).

6 Giugno 1994 (nomina 6 Maggio 1994): presa di servizio con afferenza all' Istituto di Chimica Farmaceutica e Tossicologica (oggi Dipartimento di Scienze del Farmaco), Università degli Studi di Catania.

1996 (febbraio-agosto): Università di Innsbruck (Prof. T. Langer; Institut für Pharmazeutische Chemie).

1997-: Ricercatore confermato con qualifica dal **2007** di Professore Aggregato (Facoltà di Farmacia ; Facoltà di Scienze Matematiche, Fisiche e Naturali (corso di Laurea Magistrale in Chimica Biomolecolare).

2014: A.S.N. (**A**bilitazione **S**cientifica **N**azionale) Professore associato 03/D1 – Settore Chimica Farmaceutica, Tossicologica, Nutrizionale e Tecnologie Applicate.

Data abilitazione 29/01/2014.

1 Novembre 2017-: Prof. Associato CHIM08

Attività didattica:

A.A. 1994-1995: Attività seminariale per l' insegnamento di Chimica Farmaceutica II (corsi di Laurea in Farmacia e Chimica e Tecnologia Farmaceutiche). Partecipazione a commissioni di esame per discipline del SSD CHIM08. Collaborazione nella preparazione di tesi sperimentali e compilative di laurea.

A.A. 1995-1996: Attività seminariale per l' insegnamento di Chimica Farmaceutica II (corsi di Laurea in Farmacia e Chimica e Tecnologia Farmaceutiche). Partecipazione a commissioni di esame per discipline del SSD CHIM08. Collaborazione nella preparazione di tesi sperimentali e compilative di laurea.

A.A. 1996-1999: Attività seminariale e di assistenza in laboratorio per Analisi dei Medicinali II (3° anno Corso di Laurea in Farmacia) ed Analisi dei Farmaci (3° Anno Corso di Laurea in CTF). Partecipazione a commissioni di esame per discipline del SSD CHIM08. Collaborazione nella preparazione di tesi sperimentali e compilative di laurea.

1999-2010: membro del Collegio Docenti del Dottorato di Ricerca in Scienze Biochimiche e Biomolecolari. **Tutor Tesi dottorato : 3**

A.A. 1999-2005: Attività seminariale per l' insegnamento di Chimica Farmaceutica II (corsi di Laurea in Farmacia e Chimica e Tecnologia Farmaceutiche).

2000: Tutor per il progetto di mobilità studenti LEONARDO DA VINCI .

2000 Docente Garante ("Docente di riferimento")per le discipline del Settore Scientifico Disciplinare (SSD) CHIM08 per la costituzione del nuovo corso di Laurea specialistica in Chimica Biomolecolare (Facoltà di Scienze Matematiche, Fisiche e Naturali; Dipartimento di Scienze Chimiche).

A.A. 2001-: incarico di insegnamento "Esercitazioni di Chimica Farmaceutica e Tossicologica II" per il corso di Laurea Specialistica in Farmacia.

A.A. 2001- Insegnamenti di a) Chimica Farmaceutica e b) Modelling e Progettazione di Molecole Bioattive (Nuovo Ordinamento.: Progettazione e Sviluppo del Farmaco) per il Corso di Laurea Specialistica (Magistrale) in Chimica Biomolecolare (Dipartimento di Scienze Chimiche).

A.A. 2001- Relatore di tesi di Laurea compilative e sperimentali per i corsi di Laurea in Farmacia, Chimica e Tecnologia Farmaceutiche e Chimica (Dipartimento di Scienze Chimiche).

2007-: Docente Tutor presso la Scuola Superiore di Catania.

2007: Incarico d' insegnamento "Drug Modelling" (Modulo Molecular Imaging, Drug modelling e Drug Delivery presso il Master "Diagnostica Farmaceutica e Molecolare", Facoltà di Farmacia, Università degli Studi di Catania.

2007 : Membro commissione per esame finale Dottorato di Ricerca Internazionale (European PhD). Universidad de Navarra (Spagna) C.I.F.A. (19 Dicembre 2007).

2007-2013: Responsabile progetto SOCRATES-ERASMUS per la Facoltà di Farmacia e la Facoltà di Scienze Matematiche, Fisiche e Naturali.

2007-2013: Responsabile progetto ERASMUS ***Student Placement Life Long Learning*** per la Facoltà di Farmacia e la Facoltà di Scienze Matematiche, Fisiche e Naturali.

2014- Tutor Scuola Superiore di Catania.

2016-: Insegnamento di Fitochimica (6 CFU). Corso di Laurea in Scienze Farmaceutiche Applicate *curriculum* Scienze Erboristiche dei Prodotti Nutraceutici.

Legenda: - (ad oggi)

Altre attività:

1999, 2000: *Visiting Scientist* Dipartimento di Chimica Farmaceutica (Institut für Pharmazeutische Chemie), Università di Innsbruck.

1999-2016: Associate Editor European Journal of Medicinal Chemistry.

2000 *Visiting* Scientist , ORGANON, Oss, Olanda**.**

2001-2006: *Executive Guest Editor* di Current Pharmaceutical Design (***Special issue***: "**Pharmacophore Elucidation & their use in Drugs & Design: Experimental Structures, Conformational Analysis and 3D QSAR**".

2001- Membro INBB (Istituto Nazionale Biomolecole e Biostrutture).

2001-: Responsabile progetti SOCRATES-ERASMUS.

2002: **Organizzatore del Workshop** International Course "Multivariate QSAR Modelling", June 11-14, Capomulini, Acireale, (CT) sponsorizzato da UMETRICS, Umea (Svezia).

2002: *Invited Scientist* CHEMOVATION , Horsham, U.K..

2002: *Visiting Scientist* F. Hoffmann- La ROCHE, Basilea .

2002: Relatore evento formativo Ciclo di Vita del Medicinale ad Uso Umano: dalla Sintesi alla Postmarketing Surveillance. Catania (Hotel Baia Verde) 7,8 Settembre sotto il patrocinio Commissione Nazionale per la Formazione Continua.

2003: *Invited Scientist* Università di Trømso, INSTITUTE OF MEDICAL BIOLOGY, Department of Pharmacology.

*Nominato Supervisore *esterno* "graduation theses" Università di Tromso.

2004: Attività di *Consulting ed Invited Scientist* Drug Discovery Ltd, Glasgow (Scozia).

2004-2013: Attività di *Consulting* BioChemics Consulting SAS (Orleans, France).

2005: *Invited Scientist* F. Hoffmann-La ROCHE, Basilea, Svizzera.

2005, 2007: Responsabile PRA (Progetti Ricerca Ateneo).

2005 Membro dell' International Scientific Advisory Board, Bioactive Heterocycles and Drug Discovery Paradigm, January 8-10, 2005, Rajkot(India).

2005 Speaker Workshop *Introduction to molecular modelling* (Dicembre 12,13), Università di Tromsø, Norvegia.

2006: Membro dell' International Scientific Advisory Board :

2nd INTERNATIONAL SYMPOSIUM ON DRUG DISCOVERY AND PROCESS RESEARCH, CDDPR 2006. February 10-12, 2006. Belgaum, Karnataka, (India).

2006 Membro del Comitato Scientifico 3rd School on Advanced BioMedicine and BioInformatics. "Proteoms and Proteins"Lipari Island (Italy), July 9 (Sunday)-July 22 (Saturday).

2006: Organizzatore del Workshop *A Workshop based in FLO and AlleGrow* (5-8 marzo), Catania (Città Universitaria) in collaborazione con Thistlesoft, Colebrook,CT, USA.

2007: Membro dell' International Scientific Advisory Board e relatore (conferenza plenaria) "Current Trends in Drug Discovery Research"(CTDDR-2007). 17-20 Febbraio, 2007 (Central Drug Research Institute, Lucknow, India).

2007: membro dell' International Scientific Advisory Board e relatore (conferenza plenaria) 11th International Conference (**ISCBC – 2007, February 24-26, 2007**) on "Advances in Drug Discovery Research Hotel Rama International-Aurangabad.

2007-2015: Responsabile progetto SOCRATES-ERASMUS ed ERASMUS ***Student Placement Life Long Learning*** .

2010-2013: Direzione Scientifica dello spinoff universitario ETNALEAD . Premio "STARTCUP CATANIA" per l' Innovazione Scientifica e Partecipante al PNI (Premio Nazionale Innovazione) di Napoli (4 Dicembre 2007).

2008: Organizzatore del Workshop *An Insight into Science Publishing* (28- 29 Aprile), *Auditorum* Casa della Cultura Villa Citelli, Catania.

2008-2016: membro COPE (**C**ommittee **O**n **P**ublication **E**thics) .

2008-2013: Book *Series Editor* RSC (**Royal Society of Chemistry) "*Medicinal Chemistry Series Books*"** ed "invited" **FRSC (Fellow Royal Society of Chemistry)** .

2009: docente progetto di formazione Laboratorio Pubblico-Privato DM20919(CNR-WYETH).

2010-2013: Membro del Collegio del **Dottorato Internazionale in Neurofarmacologia.**

2010-: Docente Master Discipline Regolatorie del Farmaco .

2011-: revisore (referee)ISCRA (Italian SuperComputing Resource Allocation).

2011-: Institutional Co-Ordinator Lilly Open Innovation Drug Discovery (OIDD) Program.

2012-: revisore (referee) MIUR (REPRISE).

2017: revisore esterno Dottorato in Area del Farmaco e Trattamenti Innovativi XXX Ciclo Dipartimento di NEUROFARBA Sezione di Farmaceutica e Nutraceutica Universita' degli Studi di Firenze.

Principali Tematiche di Ricerca

1. Progettazione razionale (Modellistica Molecolare) e sintesi di nuovi ligandi enzimatici e recettoriali con particolare riferimento a GPCRs (**G**-**P**rotein **C**oupled **R**eceptors) ;
2. Bioinformatica con particolare riferimento a GPCRs (**G**-**P**rotein **C**oupled **R**eceptors) ;
3. Predizione *in silico* e validazione sperimentale proprietà ADME(T);
4. Sviluppo di nuovi softwares per 3D-QSAR;
5. Applicazione di tecniche computazionali a problemi chimici e biologici.

Collaborazioni Scientifiche Nazionali ed Internazionali

1. Istituto di Ricerche Farmacologiche “Mario Negri”, Consorzio Mario Negri Sud, via Nazionale, 66030,S. Maria Imbaro (CH). Italy.
2. Centro CNR di Studio per le Macromolecole Stereordinate ed Otticamente Attive, Università di Pisa, via Risorgimento 35,I-56126 Pisa, Italy.
3. Dipartimento di Scienze Farmaceutiche, Università di Ferrara, Italy.

4. Department of Enzymology, Merck, Sharp and Dohme Research Laboratories, Rahway, NJ 07065, USA.
5. School of Pharmacy, Aristotelian University of Tessaloniki, Department of Pharmaceutical Chemistry, 540 06 Thessaloniki, Greece.
6. Macromolecular Structure-CADD, Bristol Meyers Squibb, Pharmaceutical Research Institute,P.O. Box 4000, Princeton, NJ 08543, USA.
7. Laboratory of Computer Chemistry, Institute of Chemical Metallurgy, Chinese Academy of Science, Bejing, 100081, P.R. China.
8. Dipartimento di Scienze Farmaceutiche, Universita` di Modena e Reggio Emilia, via Campi, 183-I-41100, Modena, Italy.
9. lnstitut fur Pharmazeutische Chemie, University of Innsbruck, A-6020 lnnsbruck, Austria.
10. Department of Pharmacology, Centro de Investigacion en Farmacobiologıa Aplicada (CIFA),Universidad de Navarra, C/ Irunlarrea s/n, 31080, Pamplona, Spain .
11. Chelyabinsk State University Chelyabinsk.
12. Institute of Organic Synthesis, Ural Branch Russian Academy of Sciences Ekaterinburg.
13. Departament de Fisicoquìmica, Facultat de Farmàcia, Universitat de Barcelona, Av. Diagonal 643, 08028,Barcelona, Spain.
14. School of Molecular and Microbial Sciences and School of Pharmacy, University of Queensland, Brisbane, Australia.
15. Abteilung fur Molekulare Strukturbiologie, Institut fur Mikrobiologie und Genetik & GZMB, Justus-von-Liebig Weg 11, 37077 Goettingen, Germany;
16. Department of Molecular Genetics and Preparative Molecular Biology Institute for Microbiology und Genetics, Grisebachstr. 8, 37077 Goettingen, Germany
17. Department of General Chemistry and Instituto Nazionale di Biostrutture e Biosistemi, University of Parma, 43100 Parma, Italy.

18. Department of Pharmacology, yDepartment of Medical Biochemistry, and Institute of Medical Biology, Faculty of Medicine, University of Tromsø, 9037 Tromsø, Norway.
19. BioChemics Consulting 111 Bld. Duhamel du Monceau 45166 Olivet Cedex, France.
20. Universita` degli Studi di Pisa, Dipartimento di Chimica e Chimica Industriale, Via Risorgimento 35, I-56126 Pisa, Italy.
21. The University of Kansas, Department of Pharmacology & Toxicology, 1251 Wescoe Hall Drive, Lawrence, KS 66045, USA.
22. Department of Pharmacology, Institute of Medical Biology, University of Tromsø, 9037 Tromsø, Norway.
23. Neonatal Intensive Care Unit, “Cesare Arrigo” Children Hospital, 15100 Alessandria, Italy Department of Pediatrics, G. Gaslini Children's University Hospital, 16167 Genoa, Italy.
24. Dipartimento di Chimica Inorganica, Chimica Analitica e Chimica Fisica, University of Messina, and C.I.R.C.M.S.B., Vill. S.Agata, Messina, Italy.
25. Dipartimento di Scienze e Tecnologie Molecolari e Biomolecolari-Sezione di Chimica e Tecnologie Farmaceutiche, Università degli Studi di Palermo, Via Archirafi 32, 90123 Palermo, Italy;
26. Dipartimento di Psichiatria, Neurobiologia, Farmacologia e Biotecnologie, Università degli Studi di Pisa, Via Bonanno 6, 56126 Pisa, Italy;
27. Dipartimento di Scienze Farmaceutiche “P. Pratesi”, Università degli Studi di Milano, Via L. Mangiagalli 25, 20133 Milano, Italy
28. Lab. Inmuno-Biología Molecular, Hospital General Universitario Gregorio Marañón, 28007 Madrid, Spain.
29. Dipartimento Farmaco Chimico Tecnologico, Università degli Studi di Siena, I-53100 Siena, Italy.
30. Department of Chemistry, Florida Atlantic University, Boca Raton, Florida 33431, United States

31. New York Medical College, Department of Pharmacology, Valhalla, NY 10595, USA; Marshall University's Joan C. Edwards School of Medicine, Huntington, WV 25701, USA .
32. IBB-CNR, Istituto di Biostrutture e Bioimmagini, UOS di Catania c/o Dipartimento di Scienze Chimiche, Università degli Studi di Catania, Viale A.Doria 6 Ed.3, Città Universitaria, I- 95125 Catania, Italy.
33. Biomedical Sciences Research Complex, University of St. Andrews, North Haugh, St. Andrews KY16 8QP, U.K.
34. Drug Discovery Informatics Lab, QRC-Qasemi Research Center, Al-Qasemi Academic College,Baka El-Garbiah, Israel.
35. Department of Pharmacology, Institute of Clinical Medicine, University of Oslo and Oslo University Hospital, Oslo, Norway, 2 K.G. Jebsen Cardiac Research Centre and Center for Heart Failure Research, Faculty of Medicine, University of Oslo, Oslo, Norway
36. Chemistry Department (member of NAMEDIC), University of Namur, 61 Rue de Bruxelles, Namur B-5000, Belgium.
37. Sakarya University, Pamukova Vocational High School, 54900, Sakarya, Turkey
38. Molecular Modelling Laboratory, Department of Food Science, University of Parma, Parco Area delle Scienze 17/A, Parma 43124, Italy
39. National Research Council, Institute of Biostructures and Bioimaging, Catania, Italy
40. Dipartimento di Scienze Biomediche e Biotecnologiche, Università degli Studi di Catania.
41. BIONAP s.r.l. ,Contrada Fureria Belpasso, Italy
42. Dipartimento di Scienze del Farmaco,Universita degli Studi di Padova, Padua, Italy.
43. Dipartimento di Scienze Farmacologiche e Biomolecolari, Universita degli Studi di Milano, Milan, Italy.

44. School of Pharmacy and Pharmaceutical Sciences, Cardiff University, Cardiff, United Kingdom.

45. PEPTICOM LTD., Malha Technology Park (GATI), Building 8, 3rd floor, Jerusalem, Israel.

46. Elvesys Microfluidic Innovation Center, 83 avenue Philippe Auguste 75011 Paris, FRANCE.

47. Università di Southampton (Biological Sciences: Prof. Nullin Divecha), UK. e

48. Dipartimento di Scienze Farmaceutiche, Sezione di Chimica Generale e Organica "A. Marchesini" DISFARM (Università degli Studi di Milano) .

49. School of Pharmacy and Pharmaceutical Sciences, Cardiff University, Cardiff, United Kingdom.
50. Dipartimento di Farmacia –Scienze del Farmaco, Università di Bari.

Progetti e Networks di Ricerca Internazionali:

1. **1998-2000**: Co-ordinatore del programma European Science Exchange finanziato dalla Royal Society of Chemistry (Dr. Chaman Chander, University of Luton: Nitric oxide levels using a cartilage explant model).
2. **2002** Group Leader European Commission Human Potential Programme Access To Research Infrastructure.
3. **1999-2000**: Co-ordinatore del programma European Science Exchange finanziato dalla Royal Society of Chemistry (Dr. Chaman Chander, University of Luton: Nitric oxide levels using a cartilage explant model).
4. **2009-2010:** Coordinatore Progetto **"PROJECTS IN THE FRAMEWORK OF THE JOINT BILATERAL AGREEMENT CNR-ASRT (Egitto)" 2009-10: "Molecular Modelling Design, Synthesis and Studies on the effects of Gem-Bisphosphonic Acids on bone cancer processes of activated macrophages"**

(Partner : Dr. Wafaa M. Abdou, Department of Pesticide Chemistry, Chemical Industries Research Division, National Research Centre, El-Tahrir St., Dokki, D-12622 Dokki, Cairo, Egypt).

5. **2009-2013**: membro COST ACTION BM0806 : Advances in Histamine H_4R Research.
6. **2013-2017**: membro COST ACTION CM1207 " GLISTEN: GPCR-Ligand Interactions, Structures, and Transmembrane Signalling: a European Research Network".
7. **2018-:** Responsabile Accordo Internazionale di Collaborazione con PEPTICOM LTD.(Israele), Università di Southampton (Biological Sciences), UK. e Dipartimento di Scienze Farmaceutiche, Sezione di Chimica Generale e Organica "A. Marchesini" DISFARM (Università degli Studi di Milano) .

BANDI PRIN

1. Sintesi di Liganti per i recettori serotoninergici (area 03) PRIN 1997.
2. Progettazione e Sintesi di nuovi Ligandi Selettivi per il Recettore alfa1-adrenergico (area 03) PRIN 1999.
3. Sviluppo di Ligandi Selettivi per le sottoclassi alfa1-adrenergiche (area 03) PRIN 2001.
4. Sviluppo di ligandi selettivi per i recettori dell'endotelina (area 03) PRIN 2003.
5. Basi Molecolari nei processi di aggregazione di peptici fibrillogenici (area 03) PRIN 2005.
6. Surface Plasmon Resonance Imaging per la rivelazione parallela di target di RNA e microRNA mediante acidi peptido-nucleici (area 03) PRIN 2007.
7. Riconoscimento selettivo di micro RNA mediante surface plasmon resonance imaging e microfluidica digitale (area 03) PRIN 2009.
8. Meccanismi di patogenesi negli stadi precoci della malattia di Alzheimer: identificazione di target farmacologici e biomarkers (CHIM 03) PRIN 2015.

FINANZIAMENTI DI ATENEO

1. **2005, 2007:** Responsabile PRA (Progetti Ricerca Ateneo).
2. **2014-2016**: **FIR (F*inanziamento* R*icerca di* A*teneo)** *Sviluppo di nuovi ligandi del recettore Sigma-1 come radiotraccianti per PET imaging dell'adenocarcinomja della prostata* **(CHIM03/SSD CHIM08).**
3. **2016-2018: FIR (F*inanziamento* R*icerca di* A*teneo)** *In silico design and biological investigations of Diabetic Neuropathy modulators* **(CHIM03/SSD CHIM08).**

Associazioni:

- Società Chimica Italiana (Divisione di Chimica Farmaceutica).
- INBB (Istituto Nazionale Biosistemi e Biostrutture)-Consorzio Accademico Nazionale.
- Molecular Graphics and Modelling Society.

Attività di "referaggio":

J. Med. Chem., Current Medicinal Chemistry, Eur. J. Pharm. Sci.., Letters in Medicinal Chemistry, Journal of Molecular Graphics and Modelling, Internet Electronic Journal of Molecular Design. J. Agricultural and Food Chemistry; Biorganic and Medicinal Chemistry; International Journal of Pharmaceutical Medicine(IJPM), J. Computer-Aided Mol. Des. , Biochemical Journal **,** Journal Biochemical Pharmacology,Journal of Pharmacy and Pharmacology, J. Phys. Org.

Chem., J. Heterocyclic Chem, European Journal of Medicinal Chemistry, Bioorganic and Medicinal Chemistry, Bioorganic and Medicinal Chemistry Letters, Frontiers in Biosciences, Chemical Research in Toxicology, Bioinorganic Chemistry and Applications, Food & Function, Letters in Drug Design, Reference Module, Current Perspectives in Medicinal Chemistry.

ELENCO DELLE PUBBLICAZIONI

1. F. Russo, **S. Guccione**, N.A. Santagati, A. Santagati, A. Caruso, M.G. Leone, A. Felice, G. Attaguile, M. Amico Roxas.

New heterocyclic ring systems-V Synthesis and pharmacological activity of 6H-1,3,4-thiadiazolo [3',2': 1,2]-5-oxopyrimido[5,4-b]indole derivatives and of 1-phenyl-6H-1,2,4-Triazolo [1',5': 1,2]-5-oxopyrimido [5,4-b]Indole.

IL Farmaco Ed. Sc.,**43**,409-420 (1988).

2. F. Russo, G. Romeo, **S. Guccione**, E. Bousquet, A. Caruso, M.G. Leone, G. Attaguile, M. Amico Roxas.

Synthesis and pharmacological activity of 6H-thiazolo[3',2':1,2]-5-oxopyrimido[5,4-b] Indole derivatives, a new heterocyclic ring system.

Pharmazie, **45**, 242-244 (1990). **I.F.: 1.126**

3. F. Russo, G. Romeo, **S. Guccione**, A. De Blasi.

Pyrimido[5,4-b] Indole derivatives. 1. A new class of potent and selective α_1 adrenoceptor ligands.

J. Med. Chem., **34**, 1850-1854(1991). **I.F.: 6.259**

4. F. Russo, **S. Guccione**, G. Romeo, L. Monsù Scolaro, A. Caruso, V. Cutuli.

Synthesis and pharmacological evaluation of pyrazolopyrimidobenzoxazole and pyrazolopyrimidobenzothiazole derivatives.

Boll. Chim. Farm., **130**, 89-93, (1991).

5. F. Russo, **S. Guccione**, G. Romeo, L. Monsù Scolaro, S. Pucci, A. Caruso, V. Cutuli, M. Amico Roxas.

Synthesis and pharmacological properties of pyrazolotriazolopyrimidine derivatives.

Eur. J. Med. Chem., **27**, 73-80 (1992). **I.F.: 4.519**

6. F. Russo, **S. Guccione** , G. Romeo , G. Uccello Barretta, S. Pucci , A. Caruso , M. Amico-Roxas , V. Cutuli.

Pyrazolothiazolopyrimidine derivatives as novel class of anti-inflammatory or antinociceptive agents: synthesis, structural characterization and pharmacological evaluation. Eur. J. Med. Chem., **28**, 363-376 (1993). **I.F.: 4.519**

7. C. B. Vicentini, A. C. Veronese, **S. Guccione**, M. Guarneri, M. Manfrini and P. Giori.

An efficient procedure for the synthesis of Pyrazolo[3,4-d] [1,3] Thiazin-4-ones.

Heterocycles, **36**, 10, 2291-2301, 1993. **I.F.: 0.805**

8. G. Romeo, G. Ambrosini , **S. Guccione**, A. De Blasi , F. Russo.

Pyrimido [5,4-b] benzofuran and pyrimido [5,4-b] benzothiophene derivatives. Ligands for α_1- and $5HT_{1A}$- receptors.

Eur. J. Med. Chem. , **28** , 499-504 (1993). **I.F.: 4.519**

9. C. B. Vicentini, A. C. Veronese, **S. Guccione**, M. Guarneri, M. Manfrini and P. Giori.

A new procedure for the synthesis of 4H-pyrazolo[1,5-c][1,3,5]thiadiazine-4-thiones.

J. Heterocyclic Chem ., **31**, 1477-1480, 1994. **I.F.: 0.893**

10. G. Romeo, F. Russo & **S. Guccione**, R. Chabin, D. Kuo & W. B Knight.

Synthesis of new thiazinoindole derivatives and their evaluation as inhibitors of human leukocyte elastase and other related serine proteases.

Bioorg. Med. Chem. Lett ., **20** , 2399-2404, (1994). **I.F.: 2.454**

11. **S. Guccione**, A. Raffaelli, G. Uccello Barretta , L. Monsù Scolaro,S. Pucci and F. Russo.

Unforeseen alkylating effect of triethylorthoformate in the synthesis of pyrazolotriazolopyrimidine derivatives.

Eur. J. Med. Chem., **30**, 333-337 (1995). **I.F.: 4.519**

12. **S. Guccione**, A. Raffaelli, G. Uccello-Barretta, L. Monsù Scolaro,S. Pucci and F. Russo.

Potential of alkyl orthoformates as alkylating agents of non-electron rich nitrogen heterocycles.

J. Heterocyclic Chem. **32**, 1149-1158 (1995). **I.F.: 0.893**

13. **S. Guccione**, M. Modica, J. Longmore, D. Shaw, G. Uccello Barretta, A. Santagati, M. Santagati , F. Russo .

Synthesis and NK-2 antagonist effect of 1,6-diphenyl-pyrazolo [3, 4-d]-thiazolo[3,2-a]4H-pyrimidin-4-one.

Bioorg. & Med. Chem. Lett. **6**, 59-64 (1996). **I.F.: 2.454**

14. **S. Guccione**, T. Langer , F. Russo.

Alkylation of non-electron rich nitrogen heterocycles by alkyl orthoformates: quantum chemistry calculations.

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INVITED LECTURES

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