CURRICULUM VITAE

Education:

1992 PhD in Pharmaceutical Sciences.

1986 Degree in Pharmacy (110/110 *cum laude*) April 3th. Faculty of Pharmacy, University of Catania.

Professional Experience

Department of Drug Sciences University of Catania: **1986-present**.

2017-: Associate Professor (CHIM08).

2017: external reviewer Ph.D School ("Dottorato di Ricerca") Drug Research and Innovative Treatments (XXX Cycle), Neurosciences, Psychology, Drug Research and Child Health (NEUROFARBA) Department, University of Florence .

2014: National Scientific Qualifications as Associate Professor in the sector 03/D1 (CHIM08) Medicinal, Toxicological and Nutritional Chemistry and Applied Technologies.

2012-: Reviewer REPRISE (Register of Expert Peer-Reviewers for Italian Scientific Evaluation).

2007-: Tutor Professor Scuola Superiore of Catania an University institution for higher education on a residential basis .

2007: Teaching "Drug Modelling" (Molecular Imaging, Drug modelling e Drug Delivery) in the Master *Pharmaceutical and Molecular Diagnostic*.

2007: Member of the European PhD Committment. Universidad de Navarra (Spagna) C.I.F.A.

2007-2013: Responsible for SOCRATES-ERASMUS project Faculty of Pharmacy and Faculty of Natural, Physical and Mathematical Sciences, University of Catania.

2007-2013: Responsible ERASMUS ***Student Placement Life Long Learning*** Faculty of Pharmacy and Faculty of Natural, Physical and Mathematical Sciences, University of Catania.

2003: *Invited Scientist* University of Trømso (Norway), INSTITUTE OF MEDICAL BIOLOGY, Department of Pharmacology.

2002- Aggregate Professor for the Faculty of Pharmacy and of the Degree Course in Biomolecular Chemistry at the Faculty of Natural, Physical and Mathematical Sciences, University of Catania. He was also in the Commitment to establish the latter degree course.

2001- INBB member (Institute National of Biosistems and Biostructures)-Academic National Consortium.

2000: Tutor for the students mobility LEONARDO DA VINCI project .

1997-: Senior Researcher.

1996: University of Innsbruck (Prof. T. Langer).

1994: Researcher Department of Pharmaceutical Sciences University of Catania.

1988: Course on Modern Chromatographic Techniques ;

1984: Preliminary School of Photochemistry .

Teaching:

2014- Tutor *Scuola Superiore di Catania* (Higher Education Centre of the University of Catania).

2016-: Phytochemistry**.** First cycle degree in Applied Pharmaceutical Sciences *curriculum* **"**Herbal Sciences and Nutraceutical Products".

2001-: "Molecular Modelling" (Single Cycle Degree in Pharmacy, Pharmaceutical Chemistry and Technology (CTF), second cycle degree Biomolecular Chemistry).

1999-2000: Medicinal Chemistry.

1998-1999: Analytical Pharmaceutical Chemistry (Quantitative Chemistry) and Medicinal Chemistry.

1997-1998: Analytical Pharmaceutical Chemistry (Quantitative Chemistry) and Medicinal Chemistry .

1996-1997: Analytical Pharmaceutical Chemistry (Quantitative Chemistry) and Medicinal Chemistry; Lecturer of Computational Medicinal Chemistry in the Ph.D. School in Pharmaceutical Sciences.

1995-1996: Medicinal Chemistry.

1994: Medicinal Chemistry.

1993: Analytical Pharmaceutical Chemistry (Quantitative Chemistry) and Medicinal Chemistry.

POSITIONS OF RESPONSIBILITY AND ACTIVITIES:

2013-: COST ACTION CM1207 **" GLISTEN: GPCR-Ligand Interactions, Structures, and Transmembrane Signalling: a European Research Network".**

2012-: referee MIUR (Italian Ministery of University and Research).

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

2010-2013: Member of the International PhD School in Neuropharmacology.

2010-2013: scientific Director spinoff ETNALEAD.

2010: Teaching in the **Master "Discipline Regolatorie del Farmaco" (Drug Reguatory Disciplines) .**

2009-2013: COST ACTION BM0806 : Advances in Histamine H_4R Research.

2009-2010: Project co-Ordinator **"PROJECTS IN THE FRAMEWORK OF THE JOINT BILATERAL AGREEMENT CNR-ASRT (Egitto)" .**

2009: formative project "Laboratorio Pubblico-Privato" DM20919(CNR-WYETH).

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

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

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

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

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

2007-: Scientific Director of the spinoff ETNALEAD awarded by the prize "startup" for scientific innovation.

2006: Organizer Workshop "*A Workshop based in FLO and AlleGrow"* (March 5-8), Catania (Città Universitaria).

2006: International Scientific Advisory Board :

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

2006: Scientific Commitment 3rd School on Advanced BioMedicine and BioInformatics. "Proteoms and Proteins"Lipari Island (Italy), July 9 -July 22 .

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

2005- Responsible for (**3**) PRA research projects ("Progetti Ricerca Ateneo").

2005 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.

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

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

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**".

2002: Speaker formative event "Ciclo di Vita del Medicinale ad Uso Umano: dalla Sintesi alla Postmarketing Surveillance" (Life cycle of the drug: from syhthesis to Postmarketing Surveillance).

Catania (Hotel Baia Verde) 7,8 Settembre (Commissione Nazionale per la Formazione Continua “National Committment for Continued Learning”).

1999-2016: Editor European Journal of Medicinal Chemistry.

1998-2000: Italian Co-ordinator of the European Science Exchange Program granted by the Royal Society.

Reviewer : 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.

Research

a)Rational Design (Molecular Modelling) and synthesis of new enzyme and receptor ligands; b) *in silico* and experimental ADME(T) studies; c)new softwares for drug design and *life sciences*; d)computational approaches to chemistry and biochemistry; e)Bioinformatic mostly focusing on GPCRs (**G**-**P**rotein **C**oupled **R**eceptors) .

PUBLICATIONS

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).

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).

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).

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).

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.

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).

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.

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).

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).

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).

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).

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

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

J. Heterocyclic Chem., **33**, 1413-1415 (1996).

15. **S. Guccione**, L. Monsù Scolaro, F. Russo.

Synthesis of 3-methyl substituted pyrazolotriazolopyrimidin-4-one and pyrazolo-thiazolopyrimidin-4-one derivatives.

J. Heterocyclic Chem. **33**, 459-463 (1996).

16. A. Raffaelli, S. Pucci, G. Uccello Barretta, F. Russo, **S. Guccione**,

Identification of an impurity in the synthesis of pharmacologically active pyrazolotriazolopyrimidines by a combined spectrometric approach.

Rapid Commun.Mass Spectrom., **10**, 1939-1945 (1996).

17. A.Santagati, J. Longmore, **S. Guccione**, T. Langer, E. Tonnel, M. Modica, M. Santagati, L. Monsù Scolaro, F. Russo.

Building a model of intraction at the NK-2 receptors:Polycondensed heterocycles containing the pyrimidoindole skeleton.

Eur. J. Med. Chem., **32**, 973-985 (1997).

18. Cambria, A. Raudino, A. Geronikaki, G. Buemi, G. Raciti, P. Mazzone, **S. Guccione** and S. Ragusa.

Thiazole derivatives as inhibitors of purified bovine liver mitochondrial monoamine oxidase-B: structure-activity relationships and theoretical study.

J. Enzyme Inhib.,**14**, 307-321 (1999).

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

CoMFA study of new acetyl-coa: cholesterol o-acyl transferase (ACAT) inhibitors.

Sci. Pharm., **68**, 65-73 (2000). Invited paper.

20. **S. Guccione**, A. Doweyko, H. M. Chen, G. Uccello Barretta, F. Balzano.

3D-QSAR Using "Multiconformer" Alignment: The Use of HASL in the Analysis of 5-HT_{1A} Thienopyrimidinone Ligands.

J. Comput-Aided Mol. Des, **14**, 647-657 (2000).

21. C.B. Vicentini, M. Guarneri, V. Andrisano, **S. Guccione**, T. Langer, R. Marschhofer, R. Chabin, A. Edison , X. Huang , W. B. Knight , P. Giori.

Potential of Pyrazolooxadiazinone Derivatives as Serine Protease Inhibitors.

J. Enzyme Inhib., **16,** 15 – 34 (2001).

22. M. Modica, M. Santagati, **S. Guccione**, A. Santagati, F. Russo, A. Cagnotto, M. Goegan, T. Mennini.

Design, synthesis and binding properties of novel and selective 5-HT_3 and 5-HT_4 receptor ligands.

Eur. J. Med. Chem., **36,** 2001, 287-301

23. S. Gritsch, **S. Guccione**, R. Hoffmann, A. Cambria, G. Raciti and T. Langer.

A 3D QSAR study of Monoamino Oxidase B inhibitors, using the chemical function based pharmacophore generation approach.

J. Enzyme Inhibition, **16**, 199-215, 2001.

24. R. Pignatello, M. Ferro, G. De Guidi, G. Salemi, M. A. Vandelli, **S. Guccione**, M. Geppi, C. Forte, G. Puglisi.

Preparation, characterisation and photosensitivity studies of solid dispersions of diflunisal and Eudragit RS100® and RL100® .

Int J. Pharm. **218,** 2001, 27-42.

25. Wouters, J., Norberg, B., and Guccione, S. .

4-Methyl-2-[N-(3,4-methylenedioxy-benzylidene)hydrazino]thiazole and its reduction product, 4-methyl-2-[N-(3,4-methylenedioxybenzylidene)-hydrazono]-4,5-dihydrothiazole.

Acta Cryst. Section C, Crystal Struct. Comm., **C57**, 69-71, 2001.

26. Wouters J. , Luque F.J., Uccello Barretta G., Balzano F., Pignatello R.and Guccione S.,

Crystallographic, NMR and ab initio calculation studies of tautomerism among substituted dihydrothiazol-2-ylhydrazones.

J. Chem. Soc. Perkin-Trans 2, **5** (2002), 1012 - 1016.

27. Orús L. , Pérez-Silanes S. , Oficialdegui A-M., Martínez-Esparza J., Del Castillo J-C., Mourelle M. , Langer T. , Guccione S. , Donzella G . [d§], Krovat E.M., Poptodorov K., Lasheras B. , Ballaz S. , Hervías I. , Tordera R., Del Río J., Monge A .

Synthesis and molecular modeling of new 1-aryl-3-[4-arylpiperazin-1-yl]-1-propane derivatives with high affinity at the serotonin transporter and at 5-HT$_{1A}$ receptors.

J. Med. Chem., 45, **19**, 4128-4139, 2002.

28. Massimo Fresta, **Salvatore Guccione**, Andrea R. Beccari, Pio M. Furneri, and Giovanni Puglisi.

Combining Molecular Modeling with Experimental Methodologies: Mechanism of Membrane Permeation and Accumulation of Ofloxacin .

Bioorg. Med. Chem., **10**, 3871-3889, 2002.

29. Potemkin V.A., Arslambekov R.M., Bartashevich E.V., Grishina M.A., Belik A.V., Perspicace S., **Guccione S**.

Multi-conformational method for analyzing the biological activity of molecular structures.
Zhurnal Strukturnoi Khimii,/ Journal of Structural Chemistry, 43, **6**, 1045 – 1049, 2002.

30. Uccello-Barretta, G. , Balzano, F. ,Sicoli, G. , Friglola, C. , Aldana, I. , Monge, A. , Paolino, D. , **Guccione, S**.

Combining NMR and molecular modelling in a drug delivery context: investigation of the multi-mode inclusion of a new NPY-5 antagonist bromobenzensulfonamide into β-cyclodextrin.
Bioorg. Med. Chem., **12**, 2004 , 447-458.

31. Rosario Pignatello, **Salvatore Guccione**, Stefano Forte, Claudia Di Giacomo, Valeria Sorrenti, Luisa Vicari, Gloria Uccello Barretta, Federica Balzano, and Giovanni Puglisi.

Lipophilic conjugates of methotrexate with short-chain alkylamino acids as DHFR inhibitors. Synthesis,biological evaluation,and molecular modeling,
Bioorg. Med. Chem. **12** (2004) 2951–2964.

32. Chiara B. Vicentini,**Salvatore Guccione**, Laura Giurato, Rebecca Ciaccio, Donatella Mares, and Giuseppe Forlani.

Pyrazole Derivatives as Photosynthetic Electron Transport Inhibitors: New Leads and Structure-Activity Relationship.
J. Agric. Food Chem. **2005,** 53, 3848-3855.

33. Jordi Muñoz-Muriedas,Samantha Perspicace,Nuria Bech, **Salvatore Guccione**, Modesto Orozco, and F. Javier Luque.

Hydrophobic molecular similarity from MST fractional contributions to the octanol/water partition coefficient.
J.Computer-Aided Mol. Des., **19**, 401-419 (2005).

34. Gloria Uccello-Barretta,Federica Balzano, Donatella Paolino, Rebecca Ciaccio, and **Salvatore Guccione**.

Combined NMR-crystallographic and modelling inve stigation of the inclusion of molsidomine into α–, β– and γ–cyclodextrins .
Bioorg. Med.Chem. **13** (2005) 6502–6512.

35. Rosario Pignatello, Antonina Puleo , **Salvatore Guccione** , Giuseppina Raciti , Rosaria Acquaviva ,Agatina Campisi , Cinzia A.Ventura , Giovanni Puglisi .

Enhancement of drug affinity for cell membranes by conjugation with lipoamino acids. I. Synthesis and biological evaluation of lipophilic conjugates of tranylcypromine.

Eur. J. Med. Chem., **40**, 1074-1079, 2005.

36. Marco Geppi, **Salvatore Guccione** , Giulia Mollica, Rosario Pignatello, and Carlo A. Veracini.

Molecular Properties of Ibuprofen and Its Solid Dispersions with Eudragit RL100 Studied by Solid-State Nuclear Magnetic Resonance.

Pharm. Res. , **22**, 1544-1555, (2005)

37. Rosario Pignatello , **Salvatore** Guccione, Francesco Castelli, Maria G. Sarpietro, Laura Giurato, Massimo Lombardo, Giovanni Puglisi and Istvan Toth.

Enhancement of drug affinity for cell membranes by conjugation with lipoamino acids: II. Experimental and computational evidence using biomembrane models.

Int. J. Pharmaceutics 310 (2006) 53–63.

38. C. Hildmann, D. Wegener, D. Riester, R. Hempel, A. Schober, J. Merana, L. Giurato, **S. Guccione**, T.K. Nielsen, R. Ficner, A. Schwienhorst.

Substrate and inhibitor specificity of class 1 and class 2 histone deacetylases ,

J. Biotechnol., **124**, 258-270, 2006.

39. D. Mares, C. Romagnoli, E. Andreotti, G. Forlani, **S. Guccione**, C.B. Vicentini.

Emerging antifungal azoles and effects on Magnaporthe grisea.

Mycological Research **110** , 2006, 686-696.

40. Tadeusz Z.E. Jones, Laura Giurato, **Salvatore Guccione**, and Rona R. Ramsay.

Interactions of imidazoline ligands with the active site of purified monoamine oxidase A.

FEBS Journal **274** (2007) 1567–1575.

41. Osman A.B.S.M Gani, Olayiwola A. Adekoya, Laura Giurato, Francesca Spyrakis, Pietro Cozzini, **Salvatore Guccione**, Jan-Olof Winberg, and Ingebrigt Sylte .

Theoretical Calculations of the Catalytic Triad in Short Chain Alcohol Dehydrogenases/ Reductases.

Biophys J., **94** , 2008, 1412–1427.

42. Gloria Uccello-Barretta, Federica Balzano, Silvia Bardoni, Letizia Vanni, Laura Giurato, **Salvatore Guccione**.

Chiral discrimination processes by C9 carbamate derivatives of dihydroquinine: interaction mechanisms of diastereoisomeric 9-O-[(S)- or (R)-1-(1-naphthyl) ethylcarbamate]dihydroquinine and the two enantiomers of N-(3,5-dinitrobenzoyl)alanine methyl ester.

Tetrahedron: Asymmetry **19** (2008) 1084–1093.

43. Nadège Piclin, Marco Pintore, Carmela Maria Lanza, Antonio Scacco, Salvatore Guccione, Laura Giurato, Jacques R. Chrétien.

Sensory Analysis on Red Wines: Discrimination by Adaptive Fuzzy Partition (AFP).

J. Sensory Studies , 23, **4**, 2008 , 558-569.

44. Copani, **S. Guccione**, L. Giurato, F. Caraci, M. Calafiore, M.A. Sortino, F. Nicoletti.

The cell cycle molecules behind neurodegeneration in Alzheimer's disease: perspectives for drug development,

Current Medicinal Chemistry, **15,** 2008, 2420-2432.

45. Giovanni Li Volti, Fabio Galvano, Alessandro Frigiola, Salvatore Guccione, Claudia Di Giacomo, Stefano Forte, Giovanni Tringali, Massimo Caruso, Olayiwola Adedotun Adekoya , Diego Gazzolo.

POTENTIAL IMMUNOREGULATORY ROLE OF HEME OXYGENASE 1 IN HUMAN MILK: A COMBINED BIOCHEMICAL AND MOLECULAR MODELLING APPROACH.

The Journal of Nutritional Biochemistry, **21**, 2010, 865-871.

46. KELLY E. DESINO, ROSARIO PIGNATELLO, **GUCCIONE S**., LIVIA BASILE, SABAH ANSAR, MARY LOU MICHAELIS, RONA R. RAMSAY AND KENNETH L. AUDUS .

TCP-FA4: A DERIVATIVE OF TRANYLCYPROMINE SHOWING IMPROVED BLOOD-BRAIN PERMEABILITY. BIOCHEMICAL PHARMACOLOGY, **78**, 2009, 1412–1417.

47. Luis Berrade, Bárbara Aisa, María J. Ramirez, Silvia Galiano, Salvatore Guccione, Lise Román Moltzau, Finn Olav Levy, Ferdinando Nicoletti, Giuseppe Battaglia, Gemma Molinaro, Ignacio Aldana, Antonio Monge, and Silvia Perez-Silanes.

Novel Benzo[b]thiophene Derivatives as New Potential Antidepressants with Rapid Onset of Action.

J. Med. Chem., **54**, **2011**, 3086–3090.

48. Maria Angela Castriciano, Andrea Romeo, Nicola Angelini, Norberto Micali, Salvatore Guccione, Luigi Monsù Scolaro.

Spectroscopic Investigation and Molecular Modeling on Porphyrin/PAMAM Supramolecular Adduct.

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49. B. Maggio, D. Raffa, M.V. Raimondi, F. Plescia, M.L. Trincavelli, C. Martini, F. Meneghetti, L. Basile, Guccione S, G. Daidone (2012). *Synthesis, benzodiazepine receptor binding and molecular modelling of isochromeno[4,3-c]pyrazol-5(1H)-one derivatives*.

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50. Livia Basile, Susana Álvarez, Almudena Blanco, Andrea Santagati, Giuseppe Granada, Patrizia Di Pietro, Guccione S, Mª Ángeles Muñoz-Fernández (2012).

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51. Valeria Sorrenti, Guccione S, Claudia Di Giacomo, Maria N. Modica, Valeria Pittalà, Rosaria Acquaviva, Livia Basile, Morena Pappalardo, Loredana Salerno (2012).
Evaluation of Imidazole-based Compounds as Heme Oxygenase-1 inhibitors. CHEMICAL BIOLOGY & DRUG DESIGN, vol. 80, p. 876-886, ISSN: 1747-0285, doi: 10.1111/cbdd.12015
52. Deboprosad Mondal, Song YeLi, Luca Bellucci, Teodoro Laino, Andrea Tafi, Guccione S, and Salvatore D. Lepore (2013). *Stereoretentive Chlorination of Cyclic Alcohols Catalyzed by Titanium (IV) Tetrachloride: Evidence for a Front Side Attack Mechanism*.
JOURNAL OF ORGANIC CHEMISTRY, vol. 78, p. 2118-2127, ISSN: 0022-3263.
53. Luca Vanella, Giovanni Li Volti, Guccione S, Giancarlo Rappazzo, Eliana Salvo, Morena Pappalardo, Michal L Schwartzman, Nader G Abraham .
Heme Oxygenase-2/adiponectin Protein-Protein Interaction in Metabolic syndrome.
Biochemical and Biophysical research Communications, ISSN: 0006-291X 432 (2013) 606-611.
54. Livia Basile , Matteo Pappalardo, Salvatore Guccione **,** Danilo Milardi, and Rona R. Ramsay.

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How does Binding of Imidazole-based inhibitors to Heme Oxygenase-1 influence their Conformation? Insights combining Crystal Structures and Molecular Modelling.

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Potential of Aryl-urea-Benzofuranylthiazoles hybrids as multitasking agents in Alzheimer's disease

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a. **S. Guccione.** *Therapeutic Potential of Condensed Heterocycles* ; Russian Academy of Medical Science: Cancer Research Centre, Moscow (Russia), September 1994.

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c. **S. Guccione.** *Protein-tyrosin kinase inhibitors hybrid heterocycles as pp 60c-src protein tyrosine kinase inhibitors* . Wroclaw University of Medicine (Poland): Department of Organic Chemistry, Wroclaw (Poland), May 1995.

d. **S. Guccione.** *Bioisosterism and Molecular Hybridization in the Design of New enzyme Inhibitors.*

Collegium Medicum of the Jagiellonian University : Department of Chemical Technology of Drugs, Krakòw (Poland) May 1995.

e. **S. Guccione.** *Building a hypothesis on Human Leukocyte Elastase Inhibition by Difunctional Heterocycles* . Warsaw University of Medicine (Warsaw Academy of Medicine). Faculty of Pharmacy, Warsaw (Poland), May 1995.

f. **S. Guccione.** *Synthesis of Heterocycles of Pharmaceutical interest.* University of Pisa: Centro CNR di Studio delle Macromolecole Stereordinate ed Ottica- mente Attive, Pisa (Italy), June 1995.

g. **S. Guccione:** *3D-QSAR (HASL) in DRUG DESIGN* . Aristotelian University of Thessaloniki (Greece). Department of Pharmaceutical Chemistry , Thessaloniki (Greece), September 28th 1997 .

h. **S. Guccione:** *Use of different 3D-QSAR techniques in mapping unknown (not X-ray determined) biological targets.*

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Department of Medicines Synthesis and Technology, Faculty of Pharmacy, Lublin (Poland).

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k. **S. Guccione:** *3D-QSAR in Medicinal Chemistry: Problems, Solutions and Novel Applications.*
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l. **S. Guccione***: Computational approaches and their use in Drug Design : an overview.*
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m. **S. Guccione:** *Rational Dug Design: Computer Approaches in Structure-Property Relationships.*
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17) **S. Guccione**: *Windows to the world of Ligands-Macromolecular Receptor Interactions.*

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18) **S. Guccione** *Application of Computational Methods to Drug Design and Drug Delivery Studies.*

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25) **S. Guccione** *"Computational fishing in protein interactions and neurodegeneration hypotheses".*

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