

Prof.ssa MARIA ANGELA SIRACUSA nata a Catania il 02/01/1950.

1972: Laurea in Farmacia presso l'Università degli studi di Catania (110/110 e lode).

1974 – 1976: Titolare di una borsa di formazione didattico-scientifica presso la Facoltà di Farmacia dell'Università degli Studi di Catania.

1976 – 1985: Tecnico Laureato presso l'istituto di Chimica Farmaceutica e Tossicologica (Facoltà di farmacia).

1985 ad oggi: Professore associato (raggruppamento CHIM/08) presso la Facoltà di Farmacia dell'Università degli studi di Catania.

Attività didattica:

- “ Esercitazioni di Chimica Farmaceutica e Tossicologica I “ (Corso di laurea in Farmacia)
- “ Analisi dei Medicinali I” (Corso di laurea in Farmacia)
- “Analisi dei Farmaci e dei principi attivi I” (Corso di laurea specialistica in Farmacia)
- ” Elementi di Chimica Farmaceutica” (Corso di Laurea triennale in Informazione scientifica sul Farmaco)
- “Chimica farmaceutica e tossicologica” (Corso di laurea triennale in Scienze erboristiche)

Fa parte del Collegio Docenti del Dottorato di Scienze Farmaceutiche dell'Università degli Studi di Catania.

Attività organizzativa:

- Docente responsabile dell'autovalutazione nell'ambito del progetto Campus One per il Corso di Laurea in Informazione scientifica sul farmaco.
- **2005-2013:** Presidente del Consiglio del Corso di Laurea Specialistica in Farmacia.
- Componente del Comitato Organizzativo di: 1) Italian - Hungarian - Polish I Joint Meeting on Medicinal Chemistry. Giardini Naxos - Taormina (Italy), September 28th-October 1st, **1999**. Italian-Austrian-Czech-Greek-Hungarian-Polish-Slovak-Slovenian VII Joint Meeting on Medicinal Chemistry. Catania (Italy), June 30th-July 2nd **2011**.

Attività scientifica:

- Studio di ligandi per il recettore alfa₁-adrenergico e per le sue sottoclassi.
- Studio di ligandi per i recettori serotoninergici 5-HT_{1A} - 5HT₇ e 5HT₃
- Studio di derivati dell'imidazolo come inibitori della NOS.
- Studio di ligandi come inibitori dell'eme -ossigenasi.

- Studio di ligandi per i recettori dell'endotelina.

Pubblicazioni ultimi cinque anni:

1. L. Salerno, V. Pittalà, G. Romeo, M. N. Modica, M.A. Siracusa, C. Di Giacomo, R. Acquaviva, I. Barbagallo, D. Tibullo, V. Sorrenti. Evaluation of novel aryloxyalkyl derivatives of imidazole and 1,2,4-triazole as heme oxygenase-1 (HO-1) inhibitors and their antitumor properties. *Bioorg. & Med. Chem.*, **2013**, submitted.
2. V. Pittalà, L. Salerno, G. Romeo, M.N. Modica, M.A. Siracusa. A Focus on Heme Oxygenase-1 Inhibitors. *Curr. Med. Chem.* **2013** In press, CMC-EPUB-20130531-8.
3. L. Salerno, M.N. Modica, G. Romeo, V. Pittalà, M.A. Siracusa, M.E. Amato, R. Acquaviva, C. Di Giacomo, V. Sorrenti. Novel inhibitors of nitric oxide synthase with antioxidant properties. *Eur. J. Med. Chem.*, **2012**, *49*, 118-126.
4. G. Romeo, L. Materia, M.N. Modica, V. Pittalà, L. Salerno, M.A. Siracusa, F. Manetti, M. Botta, K. P. Minnemann. Novel 4-phenylpiperidine-2,6-dione derivatives. Ligands for alpha1-adrenoceptor subtypes. *Eur. J. Med. Chem.*, **2011**, *46*, 2676-2690.
5. V. Pittalà, M.A. Siracusa, M.N. Modica, L. Salerno, A. Pedretti, G. Vistoli, A. Cagnotto, T. Mennini, G. Romeo. Synthesis and molecular modeling of 1H-pyrrolopyrimidine-2,4-dione derivatives as ligands for the alpha1-adrenoceptors. *Bioorg. & Med. Chem.*, **2011**, *19*, 5260-5276
6. M. N. Modica, V. Pittalà, G. Romeo, L. Salerno, M. A. Siracusa. Serotonin 5-HT₃ and 5-HT₄ Ligands: an Update of Medicinal Chemistry Research in the Last Few Years. *Current Medicinal Chemistry*, **2010** vol. 17, p. 334-362, ISSN: 0929-8673
7. L. Salerno, M.A. Siracusa, G. Romeo, M. N. Modica, V. Pittalà, A. Cagnotto, T. Mennini. New Benzoxazole and Benzothiazole Derivatives as Potential 5-HT₇ receptor ligands. Proceeding of Hungarian-Austrian-Czech-German-Greek-Italian-Polish-Slovak-Slovenian Joint Meeting on Medicinal Chemistry, Budapest, Hungary, 24-27 June **2009**, **57-60**
8. L. Salerno, M. Modica, G. Romeo, V. Pittalà, M.A. Siracusa. New compounds controlling NO overproduction. In "Recent Research Developments in Chemistry and Biology of Nitric oxide" Ed. Catania Valeria Sorrenti, Angelo Vanella, Claudia Di Giacomo. **2008**, 35-62.
9. M. Modica, G. Romeo, L. Salerno, V. Pittalà, M. A. Siracusa, I. Mereghetti, A. Cagnotto, T. Mennini, R. Gàspàr, A. Gàl, G. Falkay, M. Palkò, G. Maksay, F. Fùlòp. Synthesis and Receptor Binding of New Thieno[2,3-d]-pyrimidines as Selective Ligands of 5-HT₃Receptors. *Arch. Pharm.*, **2008**, *6*, 333-343.
10. V. Pittalà, M. Modica, L. Salerno, M.A. Siracusa, F. Guerrero, I. Mereghetti, A. Cagnotto, T. Mennini, G. Romeo. Synthesis and Endothelin Receptor Binding Affinity of a Novel Class of 2-Substituted-4-aryl-3-quinolinecarboxylic Acid Derivatives. *Medicinal Chemistry*, **2008**, *4*, 129-137.
11. M. A. Siracusa, L.Salerno, M. Modica, V. Pittalà, G. Romeo, M. E. Amato, M. Nowak, A.J. Bojarski, I.Mereghetti, A. Cagnotto, T. Mennini. Synthesis of New

Arylpiperazinylalkylthiobenzimidazole, Benzothiazole, or Benzoxazole Derivatives as Potent and Selective 5-HT_{1A} Serotonin Receptor Ligands. *J. Med. Chem.* **2008**, *51*, 4529–4538.

LISTA DELLE COMUNICAZIONI A CONGRESSO negli ultimi cinque anni

1. G. Romeo, M. N. Modica, L. Salerno, V. Pittalà, M. A. Siracusa, A. Cagnotto. Thieno[3,2-d]pyrimidin-4(3H)-one derivatives as novel 5-HT₇ receptor ligands. In: Joint Meeting on medicinal Chemistry, June 30th – July 4th, **2013**, Lublin, Poland.
2. M. Modica, S. Intagliata, G. Romeo, V. Pittalà, L. Salerno, M. A. Siracusa, A. Cagnotto. New thienopyrimidine and quinazoline derivatives as potential 5-HT₇ receptor ligands. In: Joint Meeting on medicinal Chemistry, June 30th – July 4th, **2013**, Lublin, Poland.
3. L. Salerno, V. Pittalà, G. Romeo, M. N. Modica, M.A. Siracusa, C. Di Giacomo, R. Acquaviva, I. Barbagallo, D. Tibullo, V. Sorrenti. Evaluation of novel aryloxyalkyl derivatives of imidazole and 1,2,4-triazole as Heme Oxygenase-1 inhibitors and their antitumor properties. Workshop: Oxidative Stress, Inflammation and Metabolic Diseases. Scuola Superiore, Villa San Saverio - University of Catania. Catania, Italy, May 30th **2013**.
4. M. Pappalardo, L. Salerno, V. Sorrenti, M.A. Siracusa, G. Romeo, L. Basile. Binding Mode Analysis and Pharmacophore Development for Imidazole Derivatives as Heme Oxygenase (HO) Inhibitors. WORKSHOP: ADVANCES IN HEME OXYGENASES AND OXIDATIVE STRESS. Scuola Superiore, Villa San Saverio- University of Catania. Catania, Italy, April 12th-13th, **2012**, p. 42.
5. Pittalà V., Forte G., Fortuna C., G. Romeo G., Modica M. N., Salerno L., Siracusa M. A., Cardile V. (2012). (E)-alpha-[[[(5-Substituted)1H-indol-3-yl]methylene]benzeneacetic Acid and Amide Derivatives: Synthesis, Characterization, and Evaluation of in vitro Antiproliferative Activity. In: 21ST NATIONAL MEETING ON MEDICINAL CHEMISTRY. Palermo, 17-20 Luglio **2012**.
6. L. Salerno, V. Pittalà, G. Romeo, M. N. Modica, M. A. Siracusa, C. Di Giacomo, R. Acquaviva, V. Sorrenti. Evaluation of Novel Imidazole- and 1,2,4 Triazole-based Compounds as Heme Oxygenase-1 (HO-1) Inhibitors. In: 21ST NATIONAL MEETING ON MEDICINAL CHEMISTRY. Palermo, 17-20 Luglio **2012**.
7. Salerno, L.; Siracusa, M.A.; Romeo, G.; Modica, M.N.; Pittalà, V.; Cagnotto. A. New benzoxazolone and benzothiazolone derivatives as potential 5-HT₇ receptor ligands. VII Joint Meeting on Medicinal Chemistry. Catania (Italy), June 30th-July 2nd (**2011**), p. 199.
8. Romeo G, Pittalà V, Modica M N, Salerno L, Guerrera F, Siracusa M A, Cagnotto A (2010). Novel [1]benzothieno[[3,2-d]pyrimidin-4(3H)-ones. Ligands for the 5-HT₇ receptor. In: DRUG OF THE FUTURE. Brussels, Belgium, September 5-9, **2010**, vol. 35 (suppl. A), p. 100, BARCELONA: Prous Science -Thomson Reuters
9. L. Salerno, M. A. Siracusa, G. Romeo, M. N. Modica, V. Pittalà, A. Cagnotto, T. Mennini. New benzoxazole and benzothiazole derivatives as potential 5-HT₇ receptor ligands. Hungarian-Austrian-Czech-German-Greek-Italian-Polish-Slovak-Slovenian Joint Meeting on Medicinal Chemistry, Budapest, Hungary, 24-27 June **2009**, p. 164

10. G. Romeo, M. N. Modica, V. Pittalà, L. Salerno, M. A. Siracusa, A. Cagnotto, T. Mennini. New thienopyrimidine derivatives as potential 5-HT₇ receptors ligands. XIX National Meeting on Medicinal Chemistry, Verona Italy, 14-18 september **2008**, p. 221.
11. V. Pittalà, L. Salerno, M. N. Modica, M. A. Siracusa, G. Romeo. In search of the Magic Bullets: Discover of RN5 and its Structural Modifications for Targeting Selectively alpha 1 Adrenoceptors. EHRLICH II-2nd Word Conference on Magic Bullets Celebrating the 100th Anniversary of the Nobel Prize Award to Paul Ehrlich, Nürnberg, 3-5 october, **2008**, A-257.
12. M. Nowak, A. J. Bojarski, L. Salerno, M. N. Modica, M. A. Siracusa. Molecular modeling explains differences in binding affinity of new potent and selective 5-HT_{1A} ligands: arylpiperazinylalkylthiobenzoxazole derivatives. VI Multidyscyplinarna Konferencja Nauki o Leku, Krakov, Poland, 25-29 may **2008**, p. 46.