**CV Prof. Maurizio Anzini**

Prof. Maurizio Anzini **(MA)** graduated in Chemistry and Pharmaceutical Technology at the University of Rome "La Sapienza" in 1976 (Department of Medicinal Chemistry, Faculty of Pharmacy). In 1977 he entered to the Italian College of Pharmacists and in 1980 got the specialization in Chemical Clinical Analyses at the University of Camerino, Italy).
*Work Experience*. Clinical Pathology, with special reference to the development of chemical tests of clinical interest first as undergraduate technician and then as graduate analyst in Institute of Health (Rome, Italy) from Feb. 1974 through Apr. 1983. Medicinal Chemistry, drug design, synthesis, purification and characterization of organic compounds as Researcher in the Dipartimento Farmaco Chimico Tecnologico, Università di Siena from May 1983 through October 1998.
*Professional Experience*. 1983-98 Lecturer in Medicinal Chemistry, Faculty of Pharmacy, Università di Siena. In 1992 MA joined the lab of Pharmacochemie Moleculaire of Prof. Camille Wermuth at the French Research Council (CNRS) in Strasbourg (France) where he worked at the design and synthesis of new ligands for the Peripheral Benzodiazepine Receptor, and successively, in 1993, granted by the Italian Research Council (CNR) he spent a period at Rutgers State University, Newark, NJ (USA) where, in collaboration with Prof. R. Ian Fryer, worked at a project dealing with the search of a full antagonist of the Central Benzodiazepine Receptor (CBR).
In 1998 MA was appointed Associated Professor of Medicinal Chemistry at the Faculty of Pharmacy, University of "Magna Græcia" di Catanzaro where he spent three years and on November, 1st 2001 moved definitively to the Università di Siena where he still teaches and works.
January 2014, MA was qualified Full Professor of Medicinal Chemistry.

*Teaching Classes*:
AY 1992-1998: Drug Analysis I;
AY 1995-1998: Receptors Chemistry.
AY 1998-2001: Drug Analysis I.
AY 1999-2001: Drug Analysis and Metabolites in Biological Fluids
AY 2001-2002**:** Drug Analysis I; Medicinal and Toxicological Chemistry II
AY 2002-2003: Drug Analysis I; Drug Analysis II; Medicinal and Toxicological Chemistry II; Receptors Chemistry.
AY 2003-2004: Drug Analysis I; Medicinal and Toxicological Chemistry II; Receptor Chemistry.
AY 2004-2005: Drug Analysis I; Receptors Chemistry.
AY 2005-2006: Drug Analysis I; Drug Analysis II; Drug Analysis III (Qualit. Organic Chemistry).
AY 2006-2007: Drug Analysis I, Drug Analysis III (Qualitative Organic Chemistry).
AY 2007-2008: Drug Analysis III (Qualitat. Organic Chemistry); Analysis of Natural Substances.
AY 2008-2014: Drug Analysis III (Qualitative Organic Chemistry).
AY 2013-2016: Medicinal and Toxicological Chemistry II; Drug Analysis III (Qualitat. Organic Chemistry)

Prof. Anzini published 109 peer-reviewed papers and 7 national and international patents.

*Research Activity:*

Professor Anzini's research group is involved in a series of projects in many fields of medicinal chemistry. The main research areas are the following: anxiety, pain, neurodegenerative diseases, inflammation in osteoarthritis and neurodegeneration, hypertension, antiemetics in chemotherapy. All the above-mentioned projects are the result of a tight collaboration between computational and synthetic chemists making easier the constant exchange of knowledge and information indispensable to the iterative process of drug discovery. The following methodologies have been

used in such studies: classical methodologies for organic synthesis, use of enzymes, microwave, structure-based and ligand-based approaches like docking, molecular dynamics, virtual library design and virtual screening, QSAR and 3D-QSAR.

In particular, Prof. Anzini's research group topics include:

1. Drug Design and Synthesis of new ligands for different GPCR and ion channels such as 5-$HT_1$, *k*-Opioid, $AT_1$, $NK_1$, and 5-$HT_3$, Central and Peripheral Benzodiazepine receptors.
2. Drug Design and Synthesis of new COX-2 inhibitors, structurally related to Coxibs, as non-steroidal anti-inflammatory agents devoid of GI and CV undesired effects.
3. Drug Design and Synthesis of a new class of anti-inflammatory drugs: COX-2 inhibiting/Nitric Oxide (NO) Donors with an improved safety profile.
4. Studies and preparation of new neuroprotective agents potentially useful in motoneuron diseases with special regard to Amiotrophic Lateral Sclerosis (ALS).
5. Design and Synthesis of anticancer drugs.
6. Synthesis and characterization of polymers of pharmaceutical interest as drug delivery systems.
7. Setting up and validation of methods in drugs analysis [HPLC and Capillary Electrophoresis (CE)].

Prof. Anzini carries out reviewing activity for well know journals in organic and medicinal chemistry.
He is member of the "Società Chimica Italiana" from 1983.
Since 2000, Prof. Anzini is the owner of research funds granted by University, MIUR, CNR, and Pharmaceutical Companies and he was also Chairman of 8 scientific schools and meetings:

1. **"First Magna Græcia Medicinal Chemistry Workshop on New Perspectives in Drug Research**", Copanello (CZ), June, 10-13 **2001**.
*(http://www.unicz.it/ricerca/convegni)*
2. "**CE-Day – Giornata di Studio sull'Elettroforesi Capillare**", Certosa di Pontignano (SI), 5 Giugno **2002**.
*(http://www.unisi.it/eventi/ceday)*
3. **The 12th FECHEM Conference on Heterocycles in Bioorganic Chemistry**, Siena, June 20-24, **2004**.
*(http://www.unisi.it/eventi/fechem)*
4. "**CE-Days 2004 – Giornate di Studio sull'Elettroforesi Capillare**", Certosa di Pontignano (SI), 3-5 Ottobre **2004**.
*(http://www.unisi.it/eventi/cedays2004)*
5. "**CE-Days 2007 – *Capillary Electrophoresis Advanced Course***", Certosa di Pontignano (SI), 11-14 Giugno **2007**.
*(http://www.unisi.it/eventi/ceday/)*
6. **Master di II Livello in Tecnologie Farmaceutiche Industriali**, l'Università degli Studi di Siena – **A.A. 2005-2006**; **A.A. 2006-2007**, **A.A. 2008-2009, A.A. 2009-2010; , A.A. 2011-2012, A.A. 2012-2013, A:A: 2013-2014. A.A. 2014-2015; A.A. 2015-2016; A.A. 2017-2018.**
*(http://www.unisi.it/did/master-tfi)*
7. "**The Siena Conference on Product and Process Optimization**", Certosa di Pontignano (SI), October, 5-8 **2008**.
*(http://ifpacsiena.org)*
*8. "***La Tutela della Sicurezza, della Salute sul Lavoro e dell'Ambiente nel Settore Chimico-Farmaceutico",** Certosa di Pontignano (SI), 7-9 Novembre **2010**
*http://www.unisi.it/1tsla*

1. Ricerche su composti eterociclici azotati. Sintesi del 6,10-diidro-11H-benzimidazo[1,2-b]indazolo, del 7a,12-diidro-7H-nafto[2',1':4,5]imidazo[1,2-b]indazolo e della 8-metilnafto[1',2':4,5]imidazo [1,2-c]chinazolina. Un nuovo metodo di sintesi della fenantridina e della benzo[a]fenantridina
S. Vomero, V. Nacci, I. Fiorini, M. Anzini, F. Chimenti.
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2. A N.M.R. Characterization of benzo- and naphthimidazoles, benzo- and naphthimidazoquinazo lines.
S. Vomero, M. Anzini, A. Segre, E.Rossi. -
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3. Polycondensed Heterocycles. III. Synthesis of 5,11-Dioxo-1,2,3,11a-tetrahydro-5H,11H- and 5-Oxo-2,3,11,11a-tetrahydro-1H,5H-pyrrolo[2,1-c][1,4]benzothiazepine.
V. Nacci, A. Garofalo, M. Anzini, G. Campiani. -
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4. Thioanalogues of Antitumor Antibiotics. 1. Synthesis of 7,8-disubstituted 5,11-Dioxo-1,2,3,11a-tetrahydro-5H,11H- and 5-Oxo-2,3,11,11a-tetrahydro-1H,5H-pyrrolo[2,1-c][1,4]benzothiazepine.
V. Nacci, A. Garofalo, M. Anzini. -
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6. Synthesis of Functionalized Derivatives of Quinazolines and 1,4-Benzodiazepines.
M. Anzini, A. Garofalo, and S. Vomero.
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7. Synthesis of 1,2,4,-Triazolo[4',3':1,6]pyridazino[4,5-b]quinoline Derivatives.
S. Vomero, M. Anzini, A. Cappelli.
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8. 5-HT and Benzodiazepine Receptor Ligands. III. Synthesis and Receptor Affinities of 1,2,4,-Triazolo[4',3':1,6]pyridazino[4,5-b]quinoline and 2,3-Dihydro-9-phenyl-1H-pyrrolo[3,4-b]quinoline-1-one Derivatives.
M. Anzini, A. Cappelli, S. Vomero, M. Botta and A. Cagnotto.
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10. Synthesis and 5-HT Receptors Binding Studies of Some 3-Substituted-2-(4-methyl-1-piperazinyl)-4-phenylquinolines.
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15. 6-(1-Piperazinyl)-7H-indeno[2,1-c]quinoline Derivatives with High Affinity and Selectivity for 5-HT3 Serotonin Sites
M. Anzini, A. Cappelli, S. Vomero, A. Cagnotto, M. Skorupska

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16. Synthesis and Receptor Binding Studies of 2-Functionalized 1,4-Benzodiazepine Derivatives as Potential Metaclazepam-like Antianxiety Agents.
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17. 5,6-Dihydro-5-[4-[4-(2-methoxyphenyl)-1- piperazinyl]butyl]-4H- pyrrolo[1,2-a][1,4]benzodiazepine-4,6-dione and Related Compounds as New 5-HT1A Receptor Ligands.
M. Anzini, F. Corelli, A. Cagnotto and M. Skorupska. -
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18. Synthesis of 6-[N-Alkyl-N-(4-hidroxybutyl)amino]pyrimidine Derivatives.
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19. Synthesis of 2-Substituted-2,3-dihydro-9-phenyl-1H-pyrrolo[3,4-b]quinolin-3-ones as Potential Peripheral Benzodiazepine-receptor Ligands.
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20. Synthesis of 4-Substituted-1,2,3,4-tetrahydro-11-phenyl-5H-azepino[3,4-b]quinolin-5-one as Potential Peripheral Benzodiazepine-receptor Ligands.
A. Cappelli, M. Anzini, S. Vomero
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A. Cappelli, M. Anzini, S. Vomero, M. C. Menziani, P. G. De Benedetti, M. Sbacchi, G. D. Clarke, L. Mennuni.
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23. Characterization and Differentiation of Heterocyclic Isomers. Part 2. Mass Spectrometry and Molecular Orbital Calculations on Pyrrolo[1,2-a][1,4]benzodiazepin-4-one, -6-one, -4,6-dione
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26. Characterization of Quinoline Derivatives. I. 6,7-Dihydro-8-(4-methyl-1-piperazinyl)[1]benzoxe pino[ 4,5-c]quinoline 0.13-Hydrate.
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29. Novel Potent and Selective Central 5-HT3 Receptor Ligands Provided with Different Intrinsic Efficacy. I. Mapping the Central 5-HT3 Receptor Binding Site by Arylpiperazine Derivatives.
A. Cappelli, M. Anzini, S. Vomero, L. Mennuni, F. Makovec, E. Doucet, M. Hamon, G. Bruni, M. R. Romeo, M. C. Menziani, P. G. De Benedetti, T. Langer.
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G. Giorgi, A. Cappelli, M. Anzini, S. Vomero
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G. Giorgi, A. Cappelli, M. Anzini, S. Vomero
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A. Cappelli, M. Anzini, S. Vomero, L. Canullo, L. Mennuni, F. Makovec, E. Doucet, M. Hamon, M.C. Menziani, P. G. De Benedetti, G. Bruni, M. R. Romeo, G. Giorgi, A. Donati
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36. Mapping and Fitting the Peripheral Benzodiazepine Receptor Binding Site by Carboxamide Derivatives. Comparison of Different Approaches to Quantitative Ligand-Receptor Interaction Modelling.
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A. Cappelli, G. Pericot Mohr, M. Anzini, S. Vomero, A. Donati, M. Casolaro, R. Mendichi, G. Giorgi, F. Makovec.
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