

Prof. Maurizio Botta

Curriculum Vitae

Prof. Maurizio Botta, PhD (U.N.B. – Canada) is full Professor of Medicinal Chemistry at the Faculty of Pharmacy, University of Siena, from November 1st 2009 is Dean of the same Faculty of Pharmacy and, from January 1st 2008, Adjunct Professor in Temple University's College of Science and Technology, in the Department of Biology, Philadelphia (USA). From November 2002 to October 2008 has been Head of the Dipartimento Farmaco Chimico Tecnologico of the University of Siena. EU expert for reviewing projects belonging to the TMR research program, for the Mid-Term review of the approved TMR projects. He is Executive Guest Editor of "Current Pharmaceutical Design" in the field of Anti-Angiogenesis Agents, EU expert in the panel "Quality of Life" for reviewing projects belonging to the "Life sciences, genomics and biotechnology for health" research program. Projects reviewer for Italian and Slovenian Research Projects, for the Austrian Research Fund (Wissenschaftsfonds-FWF), for the Cancer Research UK Programme and actually for "Fondazione Roma", for the French National Research Agency and for Italian Ministry for the Economic Development. He is Member of the Editorial Board for "ChemMedChem" (Wiley), from January 2008 Member of the Editorial Advisory Board for "Journal of Medicinal Chemistry" and from January 2010 Member of the Editorial Advisory Board for "Medicinal Chemistry Letters" (ACS), from November 2012 he is a member of the Editorial Advisory Board for the "Journal of Chemical Information and Modeling". He is member of the "Società Chimica Italiana" from 1976, member of the American Chemical Society from 1984 and of the QSAR Society from 1997 and, from 1998 to 2004, he was member of the "Direttivo della Divisione di Chimica Farmaceutica della Società Chimica Italiana". He was Chairman of 18 scientific schools and meetings, among which Schools of Synthetic Methodologies in Medicinal Chemistry of SCI and European Workshops in Drug Design and in Drug Synthesis, of European COST Meetings, of the "Twelfth FeCheM – conference on Heterocycles in Bio-Organic Chemistry", "ACS EFMC Frontiers in CNS & Oncology Medicinal Chemistry", "1st iDDi Workshop on Neglected and Orphan Diseases" held at University of Siena; he was co-Chairman at the Conference "3rd IUPAC-2002 International Symposium on the Chemistry of Natural Products", Firenze. Since 1998, he has contributed to the organization of more than 80 scientific seminars at the Dipartimento Farmaco Chimico Tecnologico of Siena University. He carries out reviewing activity for well know journals in organic and medicinal chemistry, received five Merck Research Laboratories Awards "Academic Development Program in Chemistry" (1996, 1997, 1998, 2001, and 2002). Since 1988, Prof. Botta is the owner of research funds granted by University, MIUR, CNR, EU, and Pharmaceutical Companies. Professor Botta is the author of more than 350 papers, 9 publications on volumes, 15 patents and more than 300 proceedings at congresses.

Research Area

The main research areas are the following: chemical studies on beta-lactam antibiotics; total synthesis and structure determination of biologically active natural products; synthesis of pyrimidine derivatives as antiviral and antitumor agents. The following methodologies have been used in such studies: classical methodologies for organic synthesis, methodologies for the solid phase synthesis of small molecules, use of enzymes, microwave, and parallel synthesis. Prof. Botta's team is involved in structural studies of biological macromolecules (enzymes, receptors, growth factors), studies about structure-function relationship of lipases, molecular modeling application on medicinal subjects. Moreover, in recent years he started to work on Virtual Library Design, Virtual Screening and ADME properties' determination studies.

Most Recent Publications

Giovanna Poce, Robert H. Bates, Salvatore Alfonso, Martina Coccozza, Giulio Cesare Porretta, Lluís Ballell, Joaquin Rullas, Fa'ima Ortega, Alessandro De Logu, Emanuela Agus, Valentina La Rosa, Maria Rosalia Pasca, Edda De Rossi, Baojie Wae, Scott G. Franzblau, Fabrizio Manetti, Maurizio Botta, Mariangela Biava (2013). Improved BM212 MmpL3 Inhibitor Analogue Shows Efficacy in Acute Murine Model of Tuberculosis Infection. PLOS ONE, vol. 8, p. e56980, ISSN: 1932-6203

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