

# Prof. Maria Carla Marcotullio



**Associate Professor SSD Bio/15**

## **Research Topics**

Phytochemical analysis of plants and fungi

Structur determination of secondary metabolites

Bio-assay guided fractionation of extracts

Quali- and quantitative analysis of plant extracts

## **Scientific parameters (31.12.14)**

Publications: 101

Citation number: 1599 (1472, escludendo le autocitazioni)

h-index: 23 (ISI Web of Knowledge, Web of Science).

## **Academic office**

Department representative for libraries

## **Teaching**

Plant Biology (6 CFU) (Pharmacy) (Canale A).

## Collaborations

Prof. J. Gertsch (University of Bern- Switzerland)

Prof. R.E. Robles Zepeda (University of Hermosillo Hermosillo-Mexico)

Prof. D. Ricci (University of Urbino)

Prof. F. Menichini (University of Calabria)

Prof. S. Sosa (University of Trieste)

Prof. S. Superchi (University of Potenza)

Prof. L. Cossignani (University of Perugia)

Prof. M. Moretti (University of Perugia)

Prof. C. Zadra (University of Perugia)

## Publications (2010-2014)

1. Santoro, E., Messina, F., Marcotullio, M. C.,\* Superchi, S., **2014**. Absolute configuration of bioactive furanogermacrenones from *Commiphora erythraea* (Ehrenb) Engl. by computational analysis of their chiroptical properties. *Tetrahedron* 70, 8033-8039.
2. Marcotullio, M. C.,\* Pelosi, A., Curini, M., **2014**. Hinokinin, an Emerging Bioactive Lignan. *Molecules* 19, 14862-14878.
3. Moretti, M., Cossignani, L., Messina, F., Dominici, L., Villarini, M., Curini, M., Marcotullio, M. C.,\* **2013**. Antigenotoxic effect, composition and antioxidant activity of *Dendrobium speciosum*. *Food Chem.* 140, 660-665.
4. Santoro, S., Superchi, S., Messina, F., Santoro, E., Rosati, O., Santi, C., Marcotullio, M. C.,\* **2013**. Agarsenone, a Cadinane Sesquiterpenoid from *Commiphora erythraea*. *J. Nat. Prod.* 76, 1254-1259.
5. Bellezza, I., Mierla, A., Grottelli, S., Marcotullio, M. C., Messina, F., Roscini, L., Cardinali, G., Curini, M., Minelli, A., **2013**. Furanodien-6-one from *Commiphora erythraea* inhibits the NF-kappa B signalling and attenuates LPS-induced neuroinflammation. *Mol. Immunol.* 54, 347-354.
6. Rosati, O., Curini, M., Messina, F., Marcotullio, M. C., Cravotto, G., **2013**. Ferrier Rearrangement and 2-Deoxy Sugar Synthesis from D-Glycals Mediated by Layered alpha-Zirconium Sulfophenylphosphonate-Methanphosphonate as Heterogeneous Catalyst. *Catal. Lett.* 143, 169-175.
7. Marcotullio, M. C.,\* Rosati, O., Maltese, F., Messina, F., **2013**. Cyrneine E, A New Cythane Diterpene from *Sarcodon cyrneus*. *Rec. Nat. Produ.* 7, 239-241.
8. Cenci, E., Messina, F., Rossi, E., Epifano, F., Marcotullio, M. C.,\* **2012**. Antiviral Furanosquiterpenes from *Commiphora erythraea*. *Nat.l Prod. Commun.* 7, 143-144.

9. Epifano, F., Curini, M., Marcotullio, M. C., Genovese, S., **2011**. Searching for Novel Cancer Chemopreventive Plants and their Products: The Genus *Zanthoxylum*. *Curr. Drug Targets* 12, 1895-1902.
10. Marcotullio, M. C.,\* Messina, F., Curini, M., Macchiarulo, A., Cellanetti, M., Ricci, D., Giamperi, L., Bucchini, A., Minelli, A., Mierla, A. L., Bellezza, I., **2011**. Protective Effects of *Commiphora erythraea* Resin Constituents Against Cellular Oxidative Damage. *Molecules* 16, 10357-10369.
11. Bonito, M. C., Cicala, C., Marcotullio, M. C., Maione, F., Mascolo, N., **2011**. Biological Activity of Bicyclic and Tricyclic Diterpenoids from *Salvia* Species of Immediate Pharmacological and Pharmaceutical Interest. *Nat. Prod. Commun.* 6, 1205-1215.
12. Genovese, S., Epifano, F., Marcotullio, M. C., Pelucchini, C., Curini, M., **2011**. An alternative quinoline synthesis by via Friedlander reaction catalyzed by Yb(OTf)<sub>3</sub>. *Tetrahedron Lett.* 52, 3474-3477.
13. Fraternali, D., Sosa, S., Ricci, D., Genovese, S., Messina, F., Tomasini, S., Montanari, F., Marcotullio, M. C.,\* **2011**. Anti-inflammatory, antioxidant and antifungal furanosesquiterpenoids isolated from *Commiphora erythraea* (Ehrenb.) Engl. resin. *Fitoterapia* 82, 654-661.
14. Conforti, F., Marcotullio, M. C., Menichini, F., Statti, G. A., Vannutelli, L., Burini, G., Menichini, F., Curini, M., **2011**. The Influence of Collection Zone on Glucosinolates, Polyphenols and Flavonoids Contents and Biological Profiles of *Capparis sicula* ssp *sicula*. *Food Sci. Technol. Int.* 17, 87-97.
15. Epifano, F., Sosa, S., Tubaro, A., Marcotullio, M. C., Curini, M., Genovese, S., **2011**. Topical anti-inflammatory activity of boropinic acid and its natural and semi-synthetic derivatives. *Biorg. Med. Chem. Lett.* 21, 769-772.
16. Genovese, S., Epifano, F., Carlucci, G., Marcotullio, M. C., Curini, M., Locatelli, M., **2010**. Quantification of 4'-geranyloxyferulic acid, a new natural colon cancer chemopreventive agent, by HPLC-DAD in grapefruit skin extract. *J. Pharm. Biomed. Anal.* 53, 212-214.
17. Menghini, L., Epifano, F., Genovese, S., Marcotullio, M. C., Sosa, S., Tubaro, A., **2010**. Antiinflammatory Activity of Coumarins from *Ligusticum lucidum* Mill. subsp. *cuneifolium* (Guss.) Tammaro (Apiaceae). *Phytother. Res.* 24, 1697-1699.
18. Rosati, O., Curini, M., Marcotullio, M. C., Oball-Mond, G., Pelucchini, C., Procopio, A., **2011**. Synthesis of 5-Amino-1,10b-dihydro-2H-chromeno 3,4-c pyridine-2,4(3H)-diones from Coumarins and Cyanoacetamides under Basic Conditions. *Synthesis*, 239-248.