

# Curriculum Vitae Prof. Maria Carla Marcotullio

## ■ Personal Informations

---

Name and Surname: Maria Carla Marcotullio  
Address: Dipartimento di Scienze Farmaceutiche  
del Giochetto-Edificio B- 06122 Perugia-Italy  
Phone: +39 -075-5857215  
E-mail: mariacarla.marcotullio@unipg.it  
Place and Date of Birth: Merida (Venezuela)-09.26.1960  
Citizenship: Italian

## ■ Education

---

03/1985: Degree in Pharmaceutical Chemistry and Technology achieved at the Faculty of Pharmacy of the University of Perugia, Summa cum laude  
04/1985-12/1986: Research fellow at the Organic Chemistry Institute, Faculty of Pharmacy, University of Perugia. Scientific subject: Isolation, structural determination, modifications and synthesis of natural compounds.

## ■ Working Experience

---

01/2014 and 11/2018: Qualified as Full Professor in Botany (05/A1) (National Scientific Qualification)  
11/2005-present: Associate Professor of Pharmaceutical Biology at the Department of Pharmaceutical Science - University of Perugia.  
01/1990–10/2005: Research Assistant (SSD CHIM/06) at University of Perugia  
01/1987–12/1989: Graduate Technician at the Organic Chemistry Institute- Faculty of Pharmacy-University of Perugia

## ■ Awards and Fellowships

---

05/1989-06/1990: CNR-Research Fellowship. Researcher at the Department of Chemistry-University of California-San Diego-USA-Prof. E. Wenkert's group.

## ■ Professional Appointments

---

2017-present:	Head of the Pharmacy Degree Course
2016-2017:	Member of the Coordination Committee of the Pharmacy Degree Course
2015-present:	Delegate of the Pharmaceutical Sciences Department for the Libraries Services
2014-present:	Supervisor of a Cultural and Scientific International Framework signed between the University of Perugia and the University of Sonora (Hermosillo, Mexico)
2013-present:	Member of the Scientific Board of SIF (Italian Society of Phytochemistry)

## ■ PhD Programs

---

Present:	Member of the Scientific Board of the PhD program in Pharmaceutical Sciences
2014-2020:	Member of the Scientific Board of the PhD program in “Biotechnology”
2007-2013:	Member of the Scientific Board of the PhD program in “Chemistry and Technology of drugs”

## ■ PhD Thesis Supervision

---

2003/2004:	Dr. Federica Maltese-XVII cycle: “Extraction and structural determination of natural compounds and their analogues”
2008/2009:	Dr. Gildas Norbert Oball Mond Mwankie-XXII cycle: “Bioactive natural molecules: structural and synthetic aspects”
2012/2013:	Dr. Federica Messina-XXVI cycle: “Phytochemical and Synthetic Approaches to Secondary Metabolites from Medicinal Plants and Their Biological Activity Evaluation. <i>Cannabis sativa</i> , <i>Commiphora erythraea</i> , <i>Bursera microphylla</i> ”
2017/2018:	Dr. Giulia Gigliarelli-XXX cycle Phytochemical analysis of medicinal plants extracts. Isolation and structure elucidation of secondary metabolites and their biological activity evaluation. <i>Bursera microphylla</i> , <i>Bursera fagaroides</i> , <i>Bursera palaciosii</i> and <i>Rhynchosia precatorea</i>

## ■ Affiliations

---

1985-present:	Member of SIF (Italian Society of Phytochemistry)
2007-present:	Member of Gesellschaft für Arzneipflanzen- und Naturstoff-Forschung e.V. (GA)

2004-present: Member of the Phytochemical Society of Europe

## ■ Projects

---

- 2020: **FISR:** Participant in the project: “Identificazione ed isolamento da piante medicinali e funghi di sostanze farmacologiche e di bersagli farmacologici utili nel trattamento di COVID-19”
- 2019: **FISR:** Principal Investigator of the project: “Moraceae per il trattamento delle malattie infiammatorie: identificazione, produzione e meccanismo molecolare”
- 2017: **PRIN:** Principal Investigator of the project “Plant-derived products for autoimmune disease therapy: identification, production and molecular mechanism”
- 2015: **PRIN:** Principal Investigator of the project “Plant natural compounds for cancer chemotherapy: identification, production and molecular mechanism”, (not granted, evaluation 13/15)
- 2014: Cassa di Risparmio di Terni e Narni: Scientific Advisor of the project: “Resins from Mexico” (granted)
- 2014: Aboca: Scientific Advisor of the project “Phytochemical study of medicinal plants fractions” (granted)
- 2008: **PRIN:** Participant in the project “Eco-friendly synthetic processes mediated by heterogeneous catalysts” (granted)
- 2004: **PRIN:** Participant in the project “Layered solids as heterogeneous catalysts in the organic synthesis in liquid phase” (granted)
- 1999: **PRIN:** Participant in the project “New methodologies for the synthesis of degradation products of natural steroids” (granted)
- 1997: **PRIN:** Participant in the project “New methodologies for the preparation of functional groups: synthesis of natural compounds” (granted)

## ■ Publications and Communications

---

126 publications on Journals

97 Communications at International and National Congresses

2 Invited Book Chapters

M.C. Marcotullio Sarcodon Mushrooms: Biologically Active Metabolites in: Phytochemicals - Bioactivities and Impact on Health, Iraj Rasooli (Ed.), ISBN: 978-953-307-424-5, InTech.

doi: 10.5772/27477

F. Messina, O. Rosati, M. Curini, M.C. Marcotullio Chapter 2 - Cannabis and Bioactive Cannabinoids

in Studies in Natural Products Chemistry, Volume 45, 2015, Pages 17-57 doi:10.1016/B978-0-444-63473-3.00002-2

1 invited review in a not ISI journal

M.C. Marcotullio, F. Epifano, M. Curini - Recent advances in the Use of Oxone in Organic Synthesis in Trends in Organic Chemistry, 2003, 10, 21-34.

### ■ Author Scientific Details 05/A1 (Botany)

---

Scopus (October 2021): H-index 31; Total citations 2859

### ■ Reviewer and Editor

---

2020: Guest Editor-Special Issue of Molecules “Natural Products in Italy”

2018: Guest Editor-Special Issue of Molecules “Qualitative and Quantitative Analysis of Bioactive Natural Products”

Reviewer for Molecules, J. Ethnopharm., Fitoterapia, Rec. Nat. Prod., Nat. Prod. Commun., Nat. Prod. Res.

### ■ International Scientific Collaborations

---

Prof. R.E. Robles Zepeda-Universidad de Sonora (Mexico)

Prof. A. Garibay Escobar:-Universidad de Sonora (Mexico)

Prof. Judith Becerra-University of Tucson (Arizona-USA)

### ■ Teaching

---

2020-present:	Medicinal plants and herbal medicines (Course degree in Pharmacy)
2018-present:	Pharmacognosy (Course degree in Pharmacy)
2018-present:	Herbal Supplement (Course degree in Human feeding and nutrition sciences)
2013-present:	Plant Biology (Course degree in Pharmacy)
2012-2013:	Phytochemical Biotechnology (Course degree in Biotechnology)
2010–2013:	Natural Product Chemistry (Course degree in Pharmacy)
2005-2010:	Laboratory of Plant Physiology and herbal preparations (Course degree in Herbal and Botanical Studies)
2009-2010:	Plant Biology (Course degree in Chemistry and Pharmaceutical Technology)
2005-2010:	Phytochemistry (Course degree in Herbal and Botanical Studies)
2001-2004:	Organic Chemistry (Course degree in Medical sales representatives)
1998-2001:	Natural Product Chemistry (Course degree in Pharmacy)

1994-1998: Heterocyclic Compounds Chemistry (Course degree in Chemistry and Pharmaceutical Technology)

## ■ Research Interests

---

Isolation and structural determination of secondary metabolites from plants and mushrooms

Analysis of plant extracts

Synthetic modifications of natural secondary metabolites

Essential oil preparation and analysis

## ■ Publications

---

125. H. Torres-Moreno, F. Ianni, R.E. Robles Zepeda, J.C. Lopez-Romero, M. Vidal-Gutierrez, M.D. Jacobi Duran, R. Galarini, E. Camaioni, R. Sardella, M.C. Marcotullio  
Quantitative analysis of cucurbitane-type triterpenes in *Ibervillea sonorae* extracts:  
Relationship study with their antiproliferative activity  
*Steroids*, **2020**, *161*, 108676
124. H. Torres-Moreno, M.C. Marcotullio, C. Velazquez, F. Ianni, A. Garibay-Escobar, R.E. Robles Zepeda  
Cucurbitacin IIb, a steroidal triterpene from *Ibervillea sonorae* induces antiproliferative and apoptotic effects on cervical and lung cancer cells  
*Steroids*, **2020**, *157*, 108597
123. S. Adorasio, L. Giamperi, A.A. Bucchini, D.V. Delfino, M.C. Marcotullio  
Bioassay-Guided Isolation of Antiproliferative Compounds from *Limbarda crithmoides* (L.) Dumort  
*Molecules*, **2020**, *25*, 1893
122. H. Torres-Moreno, M.C. Marcotullio, C. Velazquez, V.M. Arenas-Luna, S. Hernandez-Gutierrez, R.E. Robles Zepeda.  
Cucurbitacin IIb from *Ibervillea sonorae* Induces Apoptosis and Cell Cycle Arrest via STAT3 Inhibition  
*Anti-Cancer Agents in Medicinal Chemistry*, **2020**, *20*, 1188-1196
121. O. Rosati, F. Blasi, D. Montesano, D. Persia, M.C. Marcotullio, B. Monti, L. Cossignani  
Enantiospecific synthesis of sn-1,2-, 2,3-, and 1,3-diacylglycerols as naphthylethylurethane derivatives

*Arkivoc*, **2019**, 86-98

120. G. Rocchetti, F. Blasi, D. Monetsano, S. Ghisoni, M.C. Marcotullio, S. Sabatini, L. Cossignani, L. Lucini.  
Impact of conventional/non-conventional extraction methods on the untargeted phenolic profile of *Moringa oleifera* leaves.  
*Food Res. Internat.*, **2019**, *115*, 319-327
119. G. Gigliarelli, C. Zadra, L. Cossignani, R. E. Robles Zepeda, L. A. Rascón-Valenzuela, C.A. Velázquez-Contreras, M.C. Marcotullio  
Two new lignans from the resin of *Bursera microphylla* A. Gray and evaluation of their cytotoxic activity  
*Nat. Prod. Res.*, **2018**, *32*, 2646-2651
118. D. Lanari, A. Negri, M.C. Marcotullio  
A Design of Experiment Approach for Ionic Liquid-Based Extraction of Toxic Components-Minimized Essential Oil from *Myristica fragrans* Houtt. Fruits  
*Molecules*, **2018**, *23*, 2817.
117. M.C. Marcotullio, O. Rosati, D. Lanari.  
Phytochemistry of *Commiphora erythraea*: A review  
*Nat. Prod. Commun.*, **2018**, *13*, 1209\*-1212
116. S. Adorisio, A. Fierabracci, G. Gigliarelli, I. Muscari, L. Cannarile, A.M. Liberati, M.C. Marcotullio, C. Riccardi, M. Curini, R.E. Robles Zepeda, D.V. Delfino.  
The Hexane Fraction of *Bursera microphylla* A. Gray Induces p21-Mediated Anti-Proliferative and Pro-Apoptotic Effects in Human Cancer-Derived Cell Lines.  
*Int. Cancer Therap.*, **2018**, *17*, 138-147
115. M.C. Marcotullio, M. Curini, J.X. Becerra  
An Ethnopharmacological, Phytochemical and Pharmacological Review on Lignans from Mexican *Bursera* spp.  
*Molecules*, **2018**, *23*, 1976
114. M. Cucina, C. Zadra, M.C. Marcotullio, F. Di Maria, S. Sordi, M. Curini, G. Gliotti.  
Recovery of energy and plant nutrients from a pharmaceutical organic waste derived from a fermentative biomass: integration of anaerobic digestion and composting.  
*J. Environ. Chem. Eng.*, **2017**, *5*, 3051–3057

113. E.W. Coronado-Aceves, G. Gigliarelli, A. Garibay-Escobar, M. Curini, J. López Cervantes, C.I. Espitia-Pinzón, M.C. Marcotullio  
New Isoflavanones and Isoflavones from the Extract of *Rhynchosia precatoria* (Humb. & Bonpl. ex Willd.) DC. and their antimycobacterial activity.  
*J. Ethnopharm.*, **2017**, *206*, 92-100
112. F. Messina, G. Gigliarelli, A. Palmier, M.C. Marcotullio  
Furanodienone: an emerging bioactive furanosesquiterpenoid  
*Curr. Org. Chem.*, **2017**, *20*,
111. G. Gigliarelli, R. Pagiotti, D. Persia, M.C. Marcotullio  
Optimisation of a Naviglio-assisted extraction followed by determination of piperine content in *Piper longum* extracts.  
*Nat. Prod. Res.*, **2017**, *31*, 214-217
110. G. Cobellis, M. Trabalza-Marinucci, M.C. Marcotullio, Z. Yu.  
Evaluation of different essential oils in modulating methane and ammonia production, rumen fermentation, and rumen bacteria *in vitro*.  
*Anim. Feed Sci. Tech.* **2016**, *215*, 25-36
109. G. Gigliarelli, J. X. Becerra, M. Curini, M. C. Marcotullio. **Invited review**  
Chemical composition and biological activities of fragrant Mexican copal (*Bursera* spp.).  
*Molecules*, **2015**, *20*, 22383–22394
108. H. Torres-Moreno, C. A. Velazquez, A. Garibay-Escobar, M. Curini, M.C. Marcotullio, R.E. Robles-Zepeda.  
Antiproliferative and apoptosis induction of cucurbitacin-type triterpenes from *Ibervillea sonorae*.  
*Industrial Crops and Products*, **2015**, *77*, 895-900
107. G. Cobellis, A. Petrozzi, C. Forte, G. Acuti, M. Orrù, M.C. Marcotullio, A. Aquino, A. Nicolini, V. Mazza, M. Trabalza Marinucci.  
Evaluation of the effects of mitigation on methane and ammonia production by using *Origanum vulgare* L. and *Rosmarinus officinalis* L. essential oils on *in vitro* rumen fermentation systems.  
*Sustainability*, **2015**, *7*, 12856-12869
106. G. Lombardi, S. Vannini, M.C. Marcotullio, L. Dominici, M. Villarini, L. Cossignani, M. Moretti.  
*In vitro* safety/protection assessment of resveratrol and pterostilbene in a human hepatoma

- cell line (HepG2).  
*Nat. Prod. Commun.* **2015**, *10*, 1403-1048
105. F. Messina, G. Guglielmini, M. Curini, S. Orsini, P. Gresele, M.C. Marcotullio.  
Effect of substituted stilbenes on platelet function.  
*Fitoterapia*, **2015**, *105*, 228-233  
doi:10.1016/j.fitote.2015.07.009
104. F. Messina, M. Curini, C. Di Sano, C. Zadra, G. Gigliarelli, L.A. Rascon-Valenzuela, R.E. Robles Zepeda, M.C. Marcotullio  
Diterpenoids and triterpenoids from the resin of *Bursera microphylla* and their cytotoxic activity.  
*J. Nat. Prod.*, **2015**, *78*, 1184-1188
103. M.C. Marcotullio\*, M. R. Loizzo, F. Messina, A. Temperini, R. Tundis, F. Menichini, M. Curini.  
Bioguided fractionation of *Euphrasia pectinata* Ten. and isolation of iridoids with antiproliferative activity  
*Phytochem. Lett.*, **2015**, *12*, 252-256
102. A. Bucchini, D. Ricci, F. Messina, M.C. Marcotullio, M. Curini, L. Giamperi.  
Antioxidant and antifungal activity of different extracts obtained from aerial parts of *Inula crithmoides* L.  
*Nat. Prod. Res.*, **2015**, *29(12)*, 1173-1176.
101. Maria Carla Marcotullio\*, Azzurra Pelosi, Massimo Curini. **Invited review**  
Hinokinin, an emerging bioactive lignan.  
*Molecules*, **2014**, *19* (9), 14862-14878.
100. E. Santoro, F. Messina, M.C. Marcotullio, S. Superchi.  
Absolute configuration of bioactive furanogermacrenone from *Commiphora erythraea* (Ehrenb) Engl. by computational analysis of their chiroptical properties.  
*Tetrahedron*, **2014**, *70* (43), 8033-8039
99. S. Santoro, S. Superchi, F. Messina, E. Santoro, O. Rosati, C. Santi, M.C. Marcotullio.  
Agarsenone, a cadinane sesquiterpenoid from *Commiphora erythraea*  
*J. Nat. Prod.*, **2013**, *76*, 1254-1259.
98. M.C. Marcotullio, O. Rosati, F. Maltese, F. Messina.  
Cyrneine E, a new cyathane diterpene from *Sarcodon cyrneus*.  
*Rec. Nat. Prod.*, **2013**, *7*, 239-241



97. M. Moretti, L. Cossignani, F. Messina, L. Dominici, M. Villarini, M. Curini, M.C. Marcotullio. Antigenotoxic effect, composition and antioxidant activity of *Dendrobium speciosum*. *Food Chem.*, **2013**, *140*, 660-665.
96. I. Bellezza, A. Mierla, S. Grottelli, M.C. Marcotullio, F. Messina, L. Roscini, G. Cardinali, M. Curini, A. Minelli. Furanodien-6-one from *Commiphora erythraea* inhibits the NF- $\kappa$ B signalling and attenuates LPS-induced inflammation. *Mol. Immunol.*, **2013**, *54*, 347-354
95. O. Rosati, M. Curini, F. Messina, M.C. Marcotullio, G. Cravotto. Ferrier rearrangement and 2-deoxy sugar synthesis from D-glycals mediated by layered  $\alpha$ -zirconium sulfophenylphosphonate-methanphosphonate as heterogeneous catalyst. *Cat. Lett.*, **2013**, *143*, 169-175
94. E. Cenci, F. Messina, E. Rossi, F. Epifano, M. C. Marcotullio. Antiviral Furanosesquiterpenes from *Commiphora erythraea*. *Nat. Prod. Commun.*, **2012**, *7*, 143-144.
93. F. Epifano, M. Curini, M.C. Marcotullio, S. Genovese. **Review** Searching for novel cancer chemopreventive plants and their products: the genus *Zanthoxylum*. *Curr. Drug Targets*, **2011**, *12*, 1895-1902.
92. M.C. Marcotullio, F. Messina, M. Curini, A. Macchiarulo, M. Cellanetti, D. Ricci, L. Giamperi, A. Bucchini, A. Minelli, A.L. Mierla, I. Bellezza. Protective effects of *Commiphora erythraea* resin constituents in cellular oxidative damage. *Molecules*, **2011**, *16*, 10357-10369.
91. M.C. Bonito, C. Cicala, M.C. Marcotullio, F. Maione, N. Mascolo. **Review** Biological activity of bicyclic and tricyclic diterpenoids from *Salvia species* of immediate pharmacological and pharmaceutical interest. *Nat. Prod. Commun.*, **2011**, *6*, 1205 – 1215.
90. S. Genovese, F. Epifano, M.C. Marcotullio, C. Pelucchini, M. Curini. An alternative quinoline synthesis by via Friedländer reaction catalyzed by Yb(OTf)<sub>3</sub>. *Tetrahedron Lett.*, **2011**, *52*, 3474-3477.
89. F. Conforti, M. C. Marcotullio, F. Menichini, G. A Statti, L. Vannutelli, G. Burini, F. Menichini, M.

Curini.

The influence of collection zone on glucosinolates, polyphenols, flavonoids content and biological profiles of *Capparis sicula* ssp *sicula*.

*Food Sci. Technol. Int.*, **2011**, *17*, 87-97.

88. D. Fraternali, S. Sosa, D. Ricci, S. Genovese, F. Messina, S. Tomasini, F. Montanari, M. C. Marcotullio.  
Anti-inflammatory, antioxidant and antifungal furanosesquiterpenoids isolated from *Commiphora erythraea* (Ehrenb.) Engl. resin.  
*Fitoterapia*, **2011**, *82*, 654-661.
87. F. Epifano, S. Sosa, A. Tubaro, M.C. Marcotullio, M. Curini, S. Genovese.  
Topical anti-inflammatory activity of boropinic acid and its natural and semi-synthetic derivatives.  
*Bioorg. Med. Chem. Lett.*, **2011**, *21*, 769-772.
86. L. Menghini, F. Epifano, S. Genovese, M.C. Marcotullio, S. Sosa, A. Tubaro.  
Anti-inflammatory activity of coumarins from *Ligusticum lucidum* Mill. subsp. *cuneifolium* (Guss.) Tammara (Apiaceae).  
*Phytotherapy Res.* **2010**, *24*, 1697-1699.
85. S. Genovese, F. Epifano, G. Carlucci, M.C. Marcotullio, M. Curini, M. Locatelli  
Quantification of 4'-geranyloxyferulic acid, a new natural colon cancer chemopreventive agent, by HPLC-DAD in grapefruit skin extract.  
*J. Pharm. Biomed. Analysis*, **2010**, *53*, 212–214.
84. O. Rosati, M. Curini, M.C. Marcotullio, G. Oball-Mond, C. Pelucchini, A. Procopio.  
Synthesis of 5-Amino-1,10-dihydro-2H-chromeno[3,4-c]pyridine-2,4-(3H)-diones from Coumarins and Cyanoacetamides under Basic Conditions.  
*Synthesis*, **2010**, *2*, 239-248.
83. M. C. Marcotullio, C. Santi, G. N. Oball-Mond Mwankie, M. Curini.  
Chemical Composition of the Essential Oil of *Commiphora erythraea*  
*Nat. Prod. Commun.* **2009**, *4*, 1751-1754.
82. M. Curini, S. Genovese, L. Menghini, M.C. Marcotullio, F. Epifano. **Review**  
Phytochemistry and pharmacology of *Boronia pinnata* Sm.  
*Nat. Prod. Commun.* **2008**, *3*, 2145-2150.

81. M. C. Marcotullio, G. N. Oball-Mond Mwankie, L. Cossignani, B. Tirillini, R. Pagiotti. Phytochemical Analysis and Antiradical Properties of *Sarcodon imbricatus* (L.:Fr) Karsten. *Nat. Prod. Commun.*, **2008**, 3, 1907-1910.
80. F. Epifano, S. Genovese, M.C. Marcotullio, M. Curini. **Review**  
Chemistry and Pharmacology of Collinin, Active Principle of *Zanthoxylum* spp. *Mini-Reviews in Medicinal Chemistry*, **2008**, 8, 1203-1208.
79. M. C. Marcotullio, O. Rosati, M. Curini. **Invited Review**  
Virescenols: Sources, Structures and Chemistry. *Nat. Prod. Commun.*, **2008**, 3, 975-988.
78. O. Rosati, M. Curini, M.C. Marcotullio, A. Macchiarulo, M. Perfumi, L. Mattioli, F. Rismondo, G. Cravotto.  
Synthesis, docking studies and anti-inflammatory activity of 4,5,6,7-tetrahydro-2H-indazole derivatives. *Bioorg. Med.Chem.*, **2007**, 15, 3463-3473.
77. Y. Obara, T. Hoshino, M.C. Marcotullio, R. Pagiotti, N. Nakahata.  
A novel cyathane diterpene, cyrneine A, induces neurite outgrowth in a Rac1-dependent mechanism in PC12 cells. *Life Sci.*, **2007**, 80, 1669-1677.
76. M.C. Marcotullio, R. Pagiotti, F. Maltese, G.N. Oball-Mond Mwankie, T. Hoshino, Y. Obara, N. Nakahata.  
Cyathane diterpenes from *Sarcodon cyrneus* and evaluation of their activities of neuritegenesis and nerve growth factor production. *Bioorg. Med. Chem.*, **2007**, 15, 2878-2882.
75. M. Curini, F. Epifano, S. Genovese, M.C. Marcotullio, L. Menghini.  
3-(4'-geranyloxy-3'-methoxyphenyl)-2-*trans* propenoic acid: a novel promising cancer chemopreventive agent. *Anti-Cancer Agents in Medicinal Chemistry*, **2006**, 6, 571-577.
74. M.C. Marcotullio, R. Pagiotti, F. Maltese, Y. Obara, T. Hoshino, N. Nakahata, M. Curini.  
Neurite outgrowth activity of cyathane diterpenes from *Sarcodon cyrneus*, Cyrneines A and B. *Planta Med.*, **2006**, 72, 819-823.

73. M.C. Marcotullio, V. Campagna, S. Sternativo, F. Costantino, M. Curini.  
A new, simple synthesis of N-tosyl pyrrolidines and piperidines.  
*Synthesis*, **2006**, 2760-2766.
72. M. Curini, O. Rosati, M.C. Marcotullio, F. Montanari, V. Campagna, V. Pace, G. Cravotto.  
Preparation of 2-Amino-4H-chromene Derivatives from Coumarins in Basic Media.  
*Eur. J. Org. Chem.*, **2006**, 746-751.
71. M.C. Marcotullio, R. Pagiotti, V. Campagna, F. Maltese, G. Fardella, G. Altinier, A. Tubaro.  
Glaucopine C, a new diterpene from the fruiting bodies of *Sarcodon glaucopus*.  
*Nat. Prod. Res.*, **2006**, 20, 917-921.
70. M. Curini, F. Epifano, S. Genovese, M. C. Marcotullio, O. Rosati.  
Ytterbium Triflate-Promoted Tandem One-Pot Oxidation-Cannizzaro Reaction of Aryl Methyl Ketones  
*Org. Lett.*, **2005**, 7, 1331-1333.
69. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, M. Guo, Y. Guan, E. Wenkert.  
Hydrindanone Synthesis. An Incisterol Model  
*Helv. Chim. Acta*, **2005**, 88, 330-338.
68. M. Curini, F. Maltese, M.C. Marcotullio, L. Menghini, R. Pagiotti, O. Rosati, G. Altinier, A. Tubaro.  
Glaucopine A and B, New Cyathane Diterpenes from *Sarcodon glaucopus*.  
*Planta Med.*, **2005**, 71, 194-196.
67. M. Curini, F. Epifano, F. Maltese, M.C. Marcotullio, A. Tubaro, G. Altinier, S. Preieto-Gonzales, J.C. Rodriguez  
Synthesis and anti-inflammatory activity of natural and semisynthetic geranyloxycoumarins.  
*Bioorg. Med. Chem. Lett.*, **2004**, 14, 224-2243.
66. M. Curini, F. Epifano, M.C. Marcotullio, F. Montanari  
Oxone<sup>®</sup>-KI induced lactonization and etherification of unsaturated acids and alcohols: a formal synthesis of mintlactone  
*Synlett*, **2004**, 368-370.
65. M.C. Marcotullio, F. Epifano, M. Curini. **Review**  
Recent advances in the Use of Oxone in Organic Synthesis  
*Trends in Organic Chemistry*, **2003**, 10, 21-34.

64. M. Curini, F. Epifano, F. Maltese, M.C. Marcotullio  
Aldol-Grob Reaction: Regioselective Synthesis of (E)-Alkenes from Aldehydes and Ketones under Ytterbium Triflate Catalysis  
*Eur. J. Org. Chem.*, **2003**, 1631-1634.
63. R. Dieguez-Hurtado, G. Garrido-Garrido, S. Prieto-Gonzales, Y. Iznaga, L. Gonzales, J. Molina-Torres, M. Curini, F. Epifano, M.C. Marcotullio  
Antifungal Activity of Some Cuban *Zanthoxylum* Species.  
*Fitoterapia*, **2003**, *74*, 384-386.
62. D. Fraternali, L. Giampieri, D. Ricci, M.B.L. Rocchi, L. Guidi, F. Epifano, M.C. Marcotullio  
The effect of triacontanol on micropropagation and on secretory system of *Thymus mastichina*  
*Plant Cell, Tissue and Organ Culture*, **2003**, *74*, 87-97.
61. M. Curini, F. Epifano, F. Maltese, M.C. Marcotullio, S. Prieto Gonzales, J.C. Rodriguez.  
Synthesis of Collinin, an Antiviral Coumarin  
*Aust. J. Chem.* **2003**, *56*, 59-60.
60. A. Rosas-Romero, C. Martinez Manchado, O. Crescente, M. Acosta, M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, A. Tubaro, S. Sosa.  
Anti-Inflammatory Sesquiterpene Lactones from *Lourteigia ballotaefolia*.  
*Planta Med.*, **2002**, *68*, 843-845.
59. F. Epifano, M.C. Marcotullio, L. Menghini.  
Constituents of *Phagnalon sordidum*.  
*Chem. Nat. Comp.*, **2002**, *38*, 204-205.
58. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
The Synthesis of Solvent-free Glycidic Esters from Diazoesters and Carbonyl Compounds Catalysed by Lanthanide Triflates.  
*Eur. J. Org. Chem.*, **2002**, 1562-1565.
57. M. Curini, F. Epifano, F. Maltese, M.C. Marcotullio.  
Novel Chiral Schiff Base Ligands from Amino Acids Amides and Salicylaldehyde.  
*Tetrahedron Lett.*, **2002**, 3821-3823.
56. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, M. Nocchetti  
Preparation and deprotection of 1,1-diacetates (acylals) using zirconium sulfophenyl phosphonate as catalyst.

- Tetrahedron Lett.*, **2002**, 2709
55. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
Potassium Exchanged Layered Zirconium Phosphate as base catalyst in Knoevenagel condensation.  
*Synth. Commun.*, **2002**, 32, 355-362.
54. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati  
Simple and Regioselective Azidoiodination of Alkenes Using Oxone®  
*Tetrahedron Lett.*, **2002**, 1201-1203.
53. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati  
Zirconium Sulfophenyl Phosphonate as a Heterogeneous Catalyst in the Preparation of  $\beta$ -Amino Alcohols from Epoxides.  
*Eur. J. Org. Chem.*, **2001**, 41, 4149-4152.
52. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
A Facile and Convenient Synthesis of 1,2,3,6-tetrahydropyridazines Using Azodicarboxylates Under Lanthanum Triflate Catalysis.  
*Heterocycles*, **2001**, 55, 1599-1604.
51. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
An Efficient Procedure for the Preparation of Cyclic Ketals and Thioketals Catalyzed by Zirconium Sulfophenyl Phosphonate.  
*Synlett*, **2001**, 1182-1184.
50. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
Ytterbium triflate promoted synthesis of 1,5-benzodiazepine derivatives.  
*Tetrahedron Lett.*, **2001**, 3193-3195.
49. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
The Reaction of Phenylselenenyl Triflate with Diazo Compounds.  
*Synlett*, **2000**, 1813-1815.
48. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, R. Ballini, G. Bosica.  
Alumina Promoted Cyclization of  $\alpha$ -Nitro-oxime: A New Entry to the Synthesis of 1,2,5-Oxadiazoles N-oxides (furoxans).  
*Tetrahedron Lett.*, **2000**, 8817-8820.

47. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, M. Rossi, A. Tsadjout.  
Potassium Exchanged Layered Zirconium Phosphate as Base Catalyst for the Desilylation of Phenol Silyl Ethers.  
*Synthetic Commun.*, **2000**, *30*, 3181-3187.
46. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, A. Tsadjout.  
N-Chlorination of Amides and Carbamates by Oxone<sup>®</sup> and Sodium Chloride.  
*Synlett*, **2000**, 813-814.
45. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, M. Rossi.  
Heterogeneous Catalysis in Acetylation of Alcohols and Phenols promoted by Zirconium Sulfophenyl Phosphonate.  
*Synthetic Commun.*, **2000**, *30*, 1319-1329.
44. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, Y. Guan, E. Wenkert.  
A New Hydrindanone Synthesis  
*Helv. Chim. Acta*, **2000**, *83*, 755-759.
43. R. Tiberi, A. Niccoli, M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
The Role of Monoterpene Composition in *Pinus* spp needles in host selection by the Pine Processionary Caterpillar *Thaumetopoea pityocampa*.  
*Phytoparasitica*, **1999**, *27*, 263-272.
42. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
Oxone: A Convenient Reagent for the Oxidation of Acetals.  
*Synlett*, **1999**, 777-779.
41. G. Burini, M. Curini, M.C. Marcotullio, P. Policicchio.  
Determination of Agaritine in Cultivated Mushrooms Using High Performance Liquid Chromatography with Fluorometric Detection.  
*It. J. Food Sc.*, **1999**, *11*, 39-46.
40. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, M. Rossi.  
A New Method for the One-Step Conversion of Oximes into *Gem*-Halo-Nitro Derivatives.  
*Tetrahedron*, **1999**, *55*, 6211-6218.
39. M. Curini, F. Epifano, M. C. Marcotullio, O. Rosati, M. Rossi.  
Potassium Exchanged Zirconium Hydrogen Phosphate as Heterogeneous Catalyst in Cyanosilylation of Carbonyl Compounds.

- Synlett*, **1999**, 315-316.
38. R. Ballini, M. Curini, F. Epifano, M. C. Marcotullio, O. Rosati.  
A New, Modulated, Oxidative Ring Cleavage of  $\alpha$ -Nitrocycloalkanones by Oxone<sup>®</sup>:  
Synthesis of  $\alpha,\omega$ -Dicarboxylic Acids and  $\alpha,\omega$ -Dicarboxylic Acid Monomethyl Esters  
*Synlett*, **1998**, 1149-1150.
37. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, U. Costantino.  
Zirconium Sulfophenyl Phosphonate as a Heterogeneous Catalyst in  
Tetrahydropyranlation of Alcohols and Phenols.  
*Tetrahedron Lett.*, **1998**, 39, 8159-8162.
36. M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati, U. Costantino.  
Heterogeneous Catalysis in Trimethylsilylation of Alcohols and Phenols by Zirconium  
Sulfophenyl Phosphonate.  
*Synthetic Commun.*, **1998**, 29, 541-546.
35. P. Ceccherelli, M. Curini, M.C. Marcotullio, F. Epifano, O. Rosati.  
Oxone<sup>®</sup> Promoted Nef Reaction. Simple Conversion of Nitro Group into Carbonyl.  
*Synthetic Commun.*, **1998**, 28, 3057-3064.
34. P. Ceccherelli, M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
One-Step Conversion of Oximes to *Gem*-Chloro-Nitro derivatives.  
*Tetrahedron Lett.*, **1998**, 39, 4385-4386.
33. P. Ceccherelli, M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
Influence of a hydroxy group in the asymmetric reduction of selenides: enantioselective  
synthesis of naturally occurring monoterpenes.  
*Tetrahedron Asymmetry*, **1998**, 9, 919-922.
32. P.Ceccherelli, M.Curini, F.Epifano, M.C.Marcotullio, O.Rosati.  
A New Preparation of (1S,2R,4S)-(-)-4-Acetyl-1,2-Epoxy-1-Methylcyclohexane, a Unique  
Synthon for the Synthesis of the Sex Pheromone of the Southern Green Stinkbug, *Nezara  
viridula*, (L.).  
*Gazz. Chim. Ital.*, **1997**, 127, 315-316
31. M.Curini, M.C.Marcotullio, E.Pisani, O.Rosati, U.Costantino.  
Heterogeneous Catalysis in Carbonyl Regeneration from 1,3-Dithiolanes and 1,3-Dithianes  
by Zirconium Sulfophenyl Phosphonate.  
*Synlett*, **1997**, 769-760.



30. P.Ceccherelli, M. Curini, M.C. Marcotullio, E. Pisani, O. Rosati.  
Unusual Products from Dirhodium Tetraacylate-Catalyzed Decomposition of Diazoacetylcycloalkanes.  
*Tetrahedron*, **1997**, 53, 8501-8506.
29. P.Ceccherelli, M. Curini, M.C. Marcotullio, F. Epifano, O. Rosati.  
Carbonyl Regeneration by Oxidative Cleavage of 1,3-Dithiolanes and 1,3-Dithianes.  
*Synlett*, **1996**, 767-768.
28. W. Cabri, M. Curini, M.C. Marcotullio, O. Rosati.  
A High Yield Semisynthetic Approach to 2'-epi-Taxol.  
*Tetrahedron Lett.*, **1996**, 37, 4785-4786.
27. P.Ceccherelli, M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
A Novel Synthesis of (S)- and (R)-1-Methyl-2-Cyclohexen-1-ol. Aggregation Pheromones of *Dendroctonus pseudotsugae*.  
*J. Org. Chem.*, **1996**, 61, 2882-2884.
26. P. Ceccherelli, M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati  
Oxone Oxidation of Selenides: a Mild and Efficient Method for the Preparation of Selenones.  
*J. Org. Chem*, **1995**, 60, 8412-8413.
25. P. Ceccherelli, M. Curini, F. Epifano, M.C. Marcotullio.  
Selenoxides as Leaving Groups: Synthesis of Epoxides.  
*Tetrahedron Lett.*, **1995**, 36, 5079-5080.
24. P. Ceccherelli, M. Curini, F. Epifano, M.C. Marcotullio, O. Rosati.  
Vinillogous Wolff Rearrangement of  $\beta,\gamma$ -Unsaturated  $\alpha$ -Diazo- $\beta$ -Ketoester: A Novel Method for the Preparation of Substituted Malonates.  
*Synthetic Commun.*, **1995**, 25, 301-308.
23. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati, E. Wenkert.  
Metal-Catalyzed, Intramolecular Reactions of  $\alpha$ -Diazo Ketones with Isoxazoles.  
*J. Org.Chem.*, **1994**, 59, 2882-2884.
22. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati.  
Dirhodium Tetraacetate-catalyzed Decomposition of  $\beta,\gamma$ -Unsaturated Diazo Ketones: A New

- Entry to Vinylogous Wolff Rearrangement.  
*Gazz. Chim. Ital.*, **1994**, *124*, 177-179
21. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati.  
The Rhodium-Assisted Decomposition of Diazocetylacetic Esters.  
*Synthetic Commun.*, **1994**, *24*, 891-897.
20. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati.  
A Ready Synthesis of the ABC Fragment related to the Stemodane and Aphidicolane Skeleton.  
*Nat. Prod. Lett.*, **1993**, *2*, 33-36. (ORA *Nat. Prod. Res.*)
19. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati.  
Rh<sub>2</sub>(OAc)<sub>4</sub>-Mediated Decomposition of Diazocarbonyl Compounds: A Comparison of  $\alpha$ -Diazo Ketones and  $\alpha$ -Diazo  $\beta$ -keto Esters Reactivity.  
*Tetrahedron*, **1992**, *48*, 9767-
18. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati.  
A New Synthetic Route to 2-Carbomethoxycyclopent-2-enone via Rhodium(II)-Mediated Decomposition.  
*Org. Prep. Proceed. Int.*, **1992**, *24*, 497-499.
17. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati  
Regiocontrol by the Carbon-Carbon Double Bond in the Rh<sub>2</sub>(OAc)<sub>4</sub> Mediated Carbon-Hydrogen Insertion of  $\alpha$ -Diazo-Ketones.  
*Tetrahedron*, **1991**, *47*, 7403-7408.
16. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati.  
On the reaction of trisubstituted olefines with phenylselenenyl chloride in methanol.  
*Tetrahedron*, **1991**, *47*, 4211-4220.
15. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati, E. Wenkert.  
Regioselectivity of Rhodium(II)-Catalyzed Decomposition of 1-Alkyl-1-Diazoacetylalkenes. Synthesis of 2-Alkyl-2-cyclopentanones and 2-Alkylidenecyclopentanones.  
*J. Org. Chem.*, **1991**, *56*, 7065-7070.
14. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati  
A new synthetic route to Methylenomicyn B *via* Rhodium(II)-mediated decomposition of  $\alpha$ ,  $\beta$ -unsaturated  $\alpha'$ -diazoketones.

*Synthetic Commun.*, **1991**, *21*, 17-23.

13. P. Ceccherelli, M. Curini, M.C. Marcotullio and O. Rosati.  
Brominative Lactonization in Eudesmanes.  
*Tetrahedron Lett.*, **1990**, *31*, 3071-3074.
12. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati, E. Wenkert.  
A New, General Cyclopentenone Synthesis.  
*J. Org. Chem.*, **1990**, *55*, 311-315.
11. P. Ceccherelli, M. Curini, M.C. Marcotullio, G. Madruzzo, A. Menghini.  
Tortuoside, a New Natural Coumarin Glucoside from *Seseli tortuosum*.  
*J. Nat. Prod.*, **1989**, *52*, 888-890.
10. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati.  
Biogenetic-Type Transformation of 3-Keto-4,5-Epoxy-Eudesmanes: Synthesis of  
Cyperanes, Eremophilanes and Spirovetivanes.  
*Tetrahedron*, **1989**, *45*, 3809-3818.
9. P. Ceccherelli, M. Curini, M.C. Marcotullio, O. Rosati.  
Trans 1,2-Functionalization of Cycloalkenes Using Selenium Intermediates.  
*Tetrahedron Lett.*, **1989**, *30*, 3175-3178.
8. P. Ceccherelli, M. Curini, M.C. Marcotullio, A. Menghini  
Structure of Cyperanic Acid, a New Sesquiterpene from *Dittrichia viscosa* (L) Greuter.  
*J. Nat. Prod.*, **1988**, *51*, 1006-1009.
7. P. Ceccherelli, M. Curini, M.C. Marcotullio, G. Grandolini  
Unexpected rearrangement on the quassin series.  
*Gazz. Chim. Ital.*, **1988**, *118*, 345-346.
6. P. Ceccherelli, M. Curini, M. Diamantini, M.C. Marcotullio, G. Grandolini  
On the Reduction of Quassin.  
*Tetrahedron*, **1987**, *43*, 243-247.
5. N. Cagnoli, P. Ceccherelli, M. Curini, M.C. Marcotullio, E. Wenkert  
A Facile Synthesis of 6-Bicyclo [3.2.1]octanones.  
*Synthetic Commun.*, **1987**, *17*, 1261-1271.
4. P. Ceccherelli, M. Curini, M.C. Marcotullio, E. Wenkert  
A Strained Cyclopropanobicyclo [3.2.1]octanone

- J. Org. Chem.*, **1986**, *51*, 738-740.
3. P. Ceccherelli, M. Curini, M.C. Marcotullio, B.L. Mylari, E. Wenkert  
Iodohydrins and Tetrahydrofurans from Lead Tetraacetate-Iodine Oxidation of Terpenic Alcohols.  
*J. Org. Chem.*, **1986**, *51*, 1505-1509.
  2. P. Ceccherelli, M. Curini, M.C. Marcotullio, A. Menghini  
Sesquiterpene acids from *Dittrichia viscosa*  
*Phytochemistry*, **1985**, *24*, 2987-2989.
  1. P. Ceccherelli, M. Curini, M.C. Marcotullio  
3 $\beta$ ,19-Oxido-isopimara-7,15-diene as Intermediate in the Conversion of Virescenol B into isopimara-7,15-diene-19-ol.  
*J. Chem. Soc., Perkin Trans. I*, **1985**, 2173-2175. *ora Org. Biomol. Chem*