

CURRICULUM VITAE

Dr. Francesco Epifano

5th November 1993 Degree (Honour Degree) in Medicinal Chemistry and Pharmaceutical Technology (Chimica e Tecnologie Farmaceutiche) at the University of Perugia with discussion of an experimental Thesis in Medicinal Chemistry under the tutorial of Prof. Roberto Pellicciari from the Department of Medicinal Chemistry and Pharmaceutical Technology (Dipartimento di Chimica e Tecnologia del Farmaco) of the University of Perugia.

1st November 1995 – 31st October 1998 Doctorate Course in “Agricultural Entomology” at the Faculty of Agricultural Sciences of the University of Perugia and discussion of the Ph.D. Thesis on synthesis, properties and ecological role of insect semiochemicals under the tutorial of Prof. P. Ceccherelli and Prof. M. Curini from the Section of Organic Chemistry of the Department of Medicinal Chemistry and Pharmaceutical Technology of the University of Perugia.

1st November 1998 – 31st January 2006 Postdoctoral research grant at the Section of Organic Chemistry of the Department of Medicinal Chemistry and Pharmaceutical Technology of the University of Perugia under the supervision of Prof. M. Curini.

1st February 2006 – 30th September 2016 Professor of Pharmaceutical Biology and Phytochemistry at the Department of Drug Sciences, Faculty of Pharmacy of the University “G. D’Annunzio” of Chieti-Pescara.

From 1st October 2016 Associate Professor of Medicinal Chemistry at the Department of Pharmacy of the University “G. D’Annunzio” of Chieti-Pescara.

From 1st October 2023 Full Professor of Medicinal Chemistry at the Department of Pharmacy of the University “G. D’Annunzio” of Chieti-Pescara.

SCIENTIFIC AND RESEARCH ACTIVITY

Most of the research activity of Dr. Francesco Epifano has been carried out at the Section of Organic Chemistry of the Department of Medicinal Chemistry and Pharmaceutical Technology, Section of Organic Chemistry of the University of Perugia and during the last 16 years at the Department of Pharmacy of the University "G. D'Annunzio" of Chieti-Pescara.

Research fields could be divided into the following topics:

- Extraction, structural characterization, pharmacological activity, analytical studies, and synthesis of secondary metabolites of plant and fungi (papers 4, 6, 9, 16, 18, 33, 34, 35, 38, 39, 40, 42, 43, 44, 45, 47, 51, 52, 53, 54, 55, 56, 57, 58, 60, 61, 62, 63, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 97, 99, 100, 101, 102, 103, 104, 105, 106, 109, 110, 111, 112, 113, 114, 115, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 166, 167, 168, 170, 171, 172, 173, 174, 175, 176, 177, 179, 180, 182, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260).
- Synthesis and use of organoselenium based compounds and α -diazo-ketones as intermediates in the synthesis of biologically active natural and semisynthetic compounds (papers 1, 2, 3, 22, 48, 181, 226).

- Use of potassium monopersulfate for the deprotection and/or transformation of functional groups in the synthesis of biologically active natural and semisynthetic compounds (papers 5, 7, 8, 10, 14, 15, 19, 28, 42).
- Use of homogeneous or heterogeneous zirconium (IV) or rare earth metal-based catalysts in the synthesis of biologically active natural and semisynthetic compounds (papers 11, 12, 13, 17, 20, 21, 23, 24, 25, 26, 27, 29, 30, 31, 32, 36, 37, 46, 49, 50, 59, 64, 78, 95, 99, 107, 108, 116, 153, 154, 165, 169, 178, 183).

The research activity has been carried out in collaboration with other research groups in Europe, North America and Japan.

LIST OF PUBLICATIONS

1. Ceccherelli, P.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "Vinylogous Wolff Rearrangement of β,γ -Unsaturated α -Diazo- β -ketoesters: a Novel Method for the Preparation of Substituted Malonates", *Synth. Commun.* **1995**, 25, 301-308.
2. Ceccherelli, P.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "Selenoxides as Leaving Groups: Synthesis of Epoxides", *Tetrahedron Lett.* **1995**, 36, 5079-5080.
3. Ceccherelli, P.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "Oxone Oxidation of Selenides: a Mild and Efficient Method for the Preparation of Selenones", *J. Org. Chem.* **1995**, 60, 8412-8413.
4. Ceccherelli, P.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "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.
5. Ceccherelli, P.; Curini, M.; Marcotullio, M.C.; **Epifano, F.**; Rosati, O. "Carbonyl Regeneration by Oxidative Cleavage of 1,3-Dithiolanes and 1,3-Dithianes", *Synlett* **1996**, 767-768.
6. Ceccherelli, P.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "A New Preparation of (1S,2R,4S)-(-)-4-Acetyl-1,2-epoxy-1-methylcyclohexane, a Unique Synthone for the Synthesis of the Sex Pheromone of the Southern Green Stinkbug, *Nezara viridula* (L.)", *Gazz. Chim. It.* **1997**, 127, 316-316.
7. Ballini, R.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "A New, Modulated, Oxidative Ring Cleavage of α -Nitrocycloalkanones by Oxone: Synthesis of α,ω -Dicarboxylic Acids and α,ω -Dicarboxylic Acid Monomethyl Esters", *Synlett* **1998**, 1149-1150.
8. Ceccherelli, P.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "Oxone Promoted Nef Reaction. Simple Conversion of Nitro Group into Carbonyl", *Synth. Commun.* **1998**, 28, 3057-3064.
9. Ceccherelli, P.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "Influence of a Hydroxy Group in the Asymmetric Reduction of Selenides: Synthesis of Naturally Occurring Monoterpenes", *Tetrahedron Asymmetry* **1998**, 9, 919-922.
10. Ceccherelli, P.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "One-step Conversion of Oximes to *Gem*-chloro-nitro Derivatives", *Tetrahedron Lett.* **1998**, 39, 4385-4386.

11. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O.; Costantino, U. "Zirconium Sulfophenyl Phosphonate as a Heterogenous Catalyst in Tetrahydropyranilation of Alcohols and Phenols", *Tetrahedron Lett.* **1998**, 39, 8159-8162.
12. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O.; Costantino, U. "Heterogenous Catalysis in Trimethylsilylation of Alcohols and Phenols by Zirconium Sulfophenyl Phosphonate", *Synth. Commun.* **1999**, 29, 541-546.
13. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O.; Rossi, M. "Potassium Exchanged Zirconium Hydrogen Phosphate as Heterogeneous Catalyst in Cyanosilylation of Carbonyl Compounds", *Synlett* **1999**, 315-316.
14. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O.; Rossi, M. "A New Method for the One-step Conversion of Oximes into *Gem*-halo-nitro Derivatives", *Tetrahedron* **1999**, 55, 6211-6218.
15. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "Oxone: a Convenient Reagent for the Oxidation of Acetals", *Synlett* **1999**, 777-779.
16. Tiberi, R.; Niccoli, A.; Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "The Role of the Monoterpene Composition in *Pinus* spp. Needles, in Host Selection by the Processionary Caterpillar, *Thaumetopoea pityocampa*", *Phytoparasitica* **1999**, 27, 263-272.
17. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O.; Rossi, M. "Heterogeneous Catalysis in Acetylation of Alcohols and Phenols Promoted by Zirconium Sulfophenyl Phosphonate", *Synth. Commun.* **2000**, 30, 1319-1329.
18. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O.; Guan, Y.; Wenkert, E. "A New Hydrindanone Synthesis", *Helv. Chim. Acta* **2000**, 83, 755-759.
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23. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "Ytterbium Triflate Promoted Synthesis of 1,5-Benzodiazepine Derivatives", *Tetrahedron Lett.* **2001**, 42, 3193-3195.
24. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "An Efficient Procedure for the Preparation of Cyclic Ketals and Thioketals Catalyzed by Zirconium Sulfophenyl Phosphonate", *Synlett* **2001**, 1182-1184.
25. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "A Facile and Convenient Synthesis of 1,2,3,6-Tetrahydropyridazines Using Azodicarboxylates under Lanthanum Triflate Catalysis", *Heterocycles* **2001**, 55, 1599-1604.
26. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Rosati, O. "Zirconium Sulfophenyl Phosphonate as Heterogeneous Catalyst in the Preparation of β -Amino Alcohols from Epoxides", *Eur. J. Org. Chem.* **2001**, 4149-4152.
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32. Curini, M.; **Epifano, F.**; Maltese, F.; Rosati, O. "Carbamate Synthesis from Amines and Dimethyl Carbonate under Ytterbium Triflate Catalysis", *Tetrahedron Lett.* **2002**, 43, 4895-4897.
33. **Epifano, F.**; Marcotullio, M.C.; Menghini, L. "Constituents of *Phagnalon sordidum*", *Chem. Nat. Compd.* **2002**, 204-205.

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41. Marcotullio, M.C.; **Epifano, F.**; Curini, M. "Recent Advances in the Use of Oxone in Organic Synthesis", *Trends Org. Chem.* **2003**, 10, 21-34.
42. Curini, M.; **Epifano, F.**; Marcotullio, M.C.; Montanari, F. "Oxone-KI Induced Lactonization and Etherification of Unsaturated Acids and Alcohols: a Formal Synthesis of Mintlactone", *Synlett* **2004**, 368-370.
43. Curini, M.; **Epifano, F.**; Maltese, F.; Marcotullio, M.C.; Tubaro, A.; Altinier, G.; Prieto Gonzales, S.; Rodriguez, J.C. "Synthesis and Anti-inflammatory Activity of Natural and Semisynthetic Geranyloxycoumarins", *Bioorg. Med. Chem. Lett.* **2004**, 14, 2241- 2243.
44. Ricci, D.; Fraternale, D.; **Epifano, F.**; Curini, M. "Composition and Antifungal Activity of Two Essential Oils of Hyssop (*Hyssopus officinalis* L.)", *J. Essent. Oil Res.* **2004**, 16, 617-622.

45. Curini, M.; **Epifano, F.**; Menghini, L.; Pagiotti, R. "Flavonoids and Tocopherols from *Paronychia kapela*", *Chem. Nat. Compd.* **2004**, 2, 190-191.
46. Curini, M.; **Epifano, F.**; Montanari, F.; Rosati, O.; Taccone S. "Ytterbium Triflate Promoted Synthesis of Benzimidazole Derivatives", *Synlett* **2004**, 1832-1834.
47. Ricci, D.; Fraternale, D.; Giamperi, L.; Bucchini, A.; **Epifano, F.**; Burini, G.; Curini, M. "Chemical Composition, Antimicrobial and Antioxidant Activity of the Essential Oil of *Teucrium marum* (Lamiaceae)", *J. Ethnopharmacol.* **2005** 98, 195-200.
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50. Curini, M.; **Epifano, F.**; Chimichi, S.; Montanari, F.; Nocchetti, M.; Rosati, O. "Potassium Exchanged Layered Zirconium Phosphate as Catalyst in the Preparation of 4*H*-Chromenes", *Tetrahedron Lett.* **2005**, 3497-3499.
51. Curini, M.; **Epifano, F.**; Genovese, S. "Synthesis of a Novel Prodrug of 3-(4'-Geranyloxy-3'-methoxyphenyl)-2-*trans*-Propenoic Acid for Colon Delivery", *Bioorg. Med. Chem. Lett.* **2005**, 15, 5049-5052.
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53. Fraternale, D.; Giamperi, L.; Bucchini, A.E.A.; Ricci, D.; **Epifano, F.**; Burini, G.; Curini, M. "Chemical Composition, Antifungal and *In Vitro* Antioxidant Properties of *Monarda didyma* L. Essential Oil", *J. Essent. Oil Res.* **2006**, 18, 581-585.
54. Curini, M.; Cravotto, G.; **Epifano, F.**; Giannone, G. "Chemistry and Biological Activity of Natural and Synthetic Prenyloxycoumarins", *Curr. Med. Chem.* **2006**, 2, 199-222.
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- Menghini, L. "Fatty Acids Profile and Anti-inflammatory Activity of *Nonea setosa* R. et S.", *Phytotherapy Res.* **2006**, *20*, 422-423.
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60. Curini, M.; **Epifano, F.**; Genovese, S.; Tammaro, F.; Menghini, L. "Composition and Antimicrobial Activity of Essential Oil of *Artemisia dracunculus* L. "Piemontese" from Italy", *Chem. Nat. Compd.* **2006**, *42*, 738-739.
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Commun. **2008**, *3*, 2145-2150.

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LIST OF COMMUNICATIONS AT CONGRESSES

Oral Communications

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40. M. Locatelli, D. Kremer, F. Tammaro, L. Menghini, G. Carlucci, L. Di Federico, **F. Epifano**, S. Genovese "Profilo quantitativo degli antrachinoni e chimica fingerprint della specie *Rhamnus saxatilis* L." Fitomed 2010, IV Congresso Intersocietà sulle Piante Medicinali, Cagliari, 23-26 June 2010.
41. **F. Epifano**, S. Genovese, G. Carlucci, M. Curini, M. Locatelli "Studio preliminare di quantificazione in matrici complesse mediante HPLC-UV/Vis dell'acido 4'-geranilossiferulico, un nuovo agente chemopreventivo del cancro del colon", Fitomed 2010, IV Congresso Intersocietà sulle Piante Medicinali, Cagliari, 23-26 June 2010.
42. S. Genovese, J. Peters, J.E. Foreman, M.G. Borland, M. Curini, **F. Epifano** "L'acido 4'-geranilossiferulico come nuovo ligando per l'attivazione dei recettori PPARs", Fitomed 2010, IV Congresso Intersocietà sulle Piante Medicinali, Cagliari, 23-26 June 2010.
43. C. Pelucchini, **F. Epifano**, S. Genovese, O. Rosati, M. Curini "Yonemitsu reaction promoted by Yb(OTf)₃", XXXIII Convegno Nazionale della Divisione di Chimica Organica Società Chimica Italiana, San Benedetto (AP), 12-16 September 2010.
44. **F. Epifano**, S. Genovese, M. Feldman, D. Grenier "Synthesis and anti-inflammatory properties of 4'-O-geranylisoliquiritigenin, active principle of *Millettia* spp. (Leguminosae)" International Conference on Natural Products, Castres (France), 24-27 May 2011.
45. S. Genovese, **F. Epifano**, G. Carlucci, M. Locatelli "A novel group of secondary metabolites in *Rhamnus* spp.: prenyloxanthraquinones", International Conference on Natural Products, Castres (France), 24-27 May 2011.
46. M.G. Bellardi, L. Cavicchi, N. Contaldo, A. Bertaccini, **F. Epifano**, S.

Genovese, M. Curini, M. Davino, S. Davino "Effects of cucumber mosaic virus and aster yellows phytoplasma (16Srl-B) on the quality of *Echinacea purpurea* essential oil", Alimed 2011, Palermo, 22-25 May 2011.

47. **F. Epifano**, S. Genovese, M. Curini, M. Feldman, C. Messier, D. Grenier "4-Idrossicordoina: attività anti-batterica, anti-fungina ed anti-infiammatoria", Congresso Nazionale Società Italiana di Fitochimica (SIF), Roma, 30 June – 2 July 2011.
48. S. Genovese, **F. Epifano**, M. Curini, D. Menger, N.C. Zembruski, J. Weiss "Interazione di acidi prenilossicinnamici naturali con il sistema dei citocromi e glicoproteina P", Congresso Nazionale Società Italiana di Fitochimica (SIF), Roma, 30 June – 2 July 2011.
49. D. Fraternale, C. Martinelli, P. Sestili, A. Bucchini, L. Giamperi, **F. Epifano**, D. Ricci "*Citrus monstrosa*, an endemic *Citrus* of Sardinia, essential oil composition and biological activity", Congresso Nazionale Società Italiana di Fitochimica (SIF), Roma, 30 June – 2 July 2011.
50. M. Locatelli, S. Genovese, G. Carlucci, D. Kremer, **F. Epifano** "Development and validation of a new HPLC-UV/Vis method for the direct determination of oxyprenylated anthraquinones produced by *Rhamnus* spp.", XX Congresso Italo-Latino Americano de Etnomedicina "Francisco Jose de Abreu Matos", Fortaleza (Brazil), 19-22 September 2011.
51. **F. Epifano**, S. Genovese, P. Lullo, S. Fiorito, G. Trivisonno, C. Bruyere, R. Kiss "Screening for naturally occurring oxyprenylated secondary metabolites as cancer cell growth inhibitory agents", 8th Joint Meeting of AFERP, ASP, GA, PSE & SIF, New York (USA), 28 July – 1 August 2012.
52. S. Genovese, **F. Epifano**, M. Colamarino, M. Curini, V.H. Soares de Melo, L. Tasic, M. Burgos de Azevedo "Two novel inclusion complexes of colon cancer chemopreventers, auraptene and 4'-geranyloxyferulic acid", 8th Joint Meeting of AFERP, ASP, GA, PSE & SIF, New York (USA), 28 July – 1 August 2012.
53. **F. Epifano**, S. Genovese, R. Miller, A.P.N. Majumdar "The effect of auraptene on Folfox-resistant HT-29 colorectal adenocarcinoma cells", 8th Joint Meeting of AFERP, ASP, GA, PSE & SIF, New York (USA), 28 July – 1 August 2012.
54. T. Tanaka, S. Genovese, T. Kochi, **F. Epifano**, L. Scauri, M. Curini, M. Shimizu, H. Moriwaki "4'-Geranyloxyferulic acid – LNAME prodrug inhibits inflammation-related colorectal carcinogenesis in mice", 8th Joint Meeting of AFERP, ASP, GA, PSE & SIF, New York (USA), 28 July – 1 August 2012.
55. M. Locatelli, G. Carlucci, **F. Epifano**, D. Kremer, S. Genovese "Validation of HPLC assay for the determination of oxyprenylated anthraquinones produced by *Rhamnus* spp.", 8th Joint Meeting of AFERP, ASP, GA, PSE & SIF, New

York (USA), 28 July – 1 August 2012.

56. M. Locatelli, G. Carlucci, S. Genovese, **F. Epifano** “Quantification of 4'-geranyloxyferulic acid and boropinic acid by HPLC-DAD in grapefruit skin from different country origin”, 8th Joint Meeting of AFERP, ASP, GA, PSE & SIF, New York (USA), 28 July – 1 August 2012.
57. G. Carlucci, **F. Epifano**, S. Genovese, M. Locatelli “Chromatographic determination of molar absorptivity of natural prenyloxycinnamic acids in standardless analysis”, 8th Joint Meeting of AFERP, ASP, GA, PSE & SIF, New York (USA), 28 July – 1 August 2012.
58. S. Genovese, **F. Epifano**, L. Cavicchi, A. Bertaccini, M.G. Bellardi “Effect of phytoplasma presence on the chemical composition of essential oils from *Grindelia robusta* Nutt., *Echinacea purpurea* Moench., and *Monarda fistulosa*” Biocom12 – Semiochemicals involving plants, Cadiz (Spain), 10-12 September 2012.
59. S. Fiorito, **F. Epifano**, S. Genovese, C. Bruyere, R. Kiss “In vitro growth inhibitory activity of lapachol and its derivatives in cancer cell lines”, Phytopharm 2013, Wien (Austria), 8-10 July 2013.
60. G. Carlucci, **F. Epifano**, S. Genovese, G. Bellino, M. Locatelli “Secondary metabolites chemical fingerprints in *Rhamnu* spp. Using validated HPLC assay”, XXII Congresso Italo-LatinoAmericano de Etnomedicina, Puntarenas (Costarica), 2-6 September 2013.
61. **F. Epifano**, S. Genovese, S. Fiorito, R. Costante, A. Mollica “Sintesi di dichetopiperazineossiprenilate di origine fungina”, XIII Congresso Nazionale della Società Italiana di Fitochimica, Gargnano (BS), 19-21 September 2013.
62. **F. Epifano**, S. Fiorito, S. Genovese, R. della Loggia, S. Sosa, A. Tubaro “Attività anti-infiammatoria di metaboliti secondari ossiprenilati”, XIII Congresso Nazionale della Società Italiana di Fitochimica, Gargnano (BS), 19-21 September 2013.
63. S. Fiorito, **F. Epifano**, S. Genovese, M. Curini, M. Locatelli, V. Mathieu, R. Kiss “Complessi di lawsone e lapacolo ad attività citotossica”, XIII Congresso Nazionale della Società Italiana di Fitochimica, Gargnano (BS), 19-21 September 2013.
64. S. Fiorito, S. Genovese, **F. Epifano**, J. Azelmat, D. Grenier “Sintesi ed attività anti-batterica di cumarine ossiprenilate”, XIII Congresso Nazionale della Società Italiana di Fitochimica, Gargnano (BS), 19-21 September 2013.
65. S. Genovese, M. Locatelli, G. Carlucci, D. Priscilli, G. Bellino, S. Fiorito, **F. Epifano** “HPLC analysis of 4'-geranyloxyferulic and boropinic acids in

grapefruits of different geographical origin", XIII Congresso Nazionale della Società Italiana di Fitochimica, Gargnano (BS), 19-21 September 2013.

66. **F. Epifano**, S. Genovese, S. Fiorito, V.A. Taddeo, L. Paglione, M.G. Matarrese, C. Magne Nde, C. Clyne "Nelumal A from *Ligularia nelumbifolia* is an aromatase inhibitor", Phytochemicals in Medicine and Pharmacognosy, Piatra Neamt (Romania), 27-30 April 2014.
67. S. Genovese, R. Costante, S. Fiorito, A. Stefanucci, **F. Epifano**, V. Mathieu, R. Kiss, A. Mollica "Synthesis and biological activity of oxyprenylated diketopiperazines of fungal origin", Phytochemicals in Medicine and Pharmacognosy, Piatra Neamt (Romania), 27-30 April 2014.
68. V.A. Taddeo, S. Genovese, M. Locatelli, **F. Epifano**, S. Fiorito, "A validated HPLC-UV/Vis methodology for the quantification of oxyprenylated cinnamic acids in *Citrus* spp.", Phytochemicals in Medicine and Pharmacognosy, Piatra Neamt (Romania), 27-30 April 2014.
69. S. Genovese, S. Fiorito, **F. Epifano**, V.A. Taddeo, M. Locatelli "An easy HPLC-UV/Vis methodology for the quantification of polyphenols in propolis, grapefruit seeds, and elder fruits", Phytochemicals in Medicine and Pharmacognosy, Piatra Neamt (Romania), 27-30 April 2014.
70. P. Minardi, **F. Epifano**, P. Mattarelli, M. Modesto, M.G. Bellardi "Studi preliminari sugli effetti di oli di *Monarda* spp. su batteri patogeni da quarantena", Il Congresso Nazionale per la Ricerca sugli Oli Essenziali, Terni, 14-16 November 2014.
71. V.A. Taddeo, S. Genovese, **F. Epifano**, S. Fiorito "HPLC analysis of selected prenyloxyphenylpropanoids in extracts of grapefruit seeds, honey, and propolis", Natural Products and Drug Discovery: Future Perspectives, Wien (Austria), 13-14 November 2014.
72. S. Fiorito, **F. Epifano**, S. Genovese, V.A. Taddeo, L. paglione, R. Kiss, V. Mathieu "Synthesis and evaluation of the cytotoxic effect of novel derivatives of juglone and plumbagin", Natural Products and Drug Discovery: Future Perspectives, Wien (Austria), 13-14 November 2014.
73. V.A. Taddeo, S. Genovese, **F. Epifano**, S. Fiorito "HPLC analysis of selected prenyloxycinnamic acid derivatives oxidized in the side chain in extracts of grapefruit seeds", XIV Congresso Nazionale della Società Italiana di Fitochimica, Padova 10-12 June 2015.
74. S. Fiorito, **F. Epifano**, S. Genovese, R. Kiss, V. Mathieu, V.A. Taddeo "Allylic oxidation promoted by SeO_2 of oxyprenylated naturally occurring phenylpropanoids and evaluation of their growth inhibitory activities in cancer cell lines", XIV Congresso Nazionale della Società Italiana di Fitochimica,

Padova 10-12 June 2015.

75. **F. Epifano**, S. Fiorito, V.A. Taddeo, J. Azelmat, H. Chen, D. Grenier, S. Genovese "Synthesis, anti-bacterial, and anti-inflammatory activity of two novel naturally occurring oxyprenylated cinnamic acid derivatives", XIV Congresso Nazionale della Società Italiana di Fitochimica, Padova 10-12 June 2015.
76. S. Genovese, **F. Epifano**, S. Franceschelli, A. Ferrone, G. Carlucci, V. Ferrone, A. Patruno, S. Fiorito, V.A. Taddeo "Validation of a RP-HPLC method to determine intracellular accumulation of 4'-geranyloxyferulic acid and its conjugates", RDPA 2015, Perugia 28 June – 1 July 2015.
77. V.A. Taddeo, **F. Epifano**, S. Fiorito, S. Genovese "Simultaneous determination of prenylated and unprenylated polyphenols in different extracts of Italian propolis", RDPA 2015, Perugia 28 June – 1 July 2015.
78. V.A. Taddeo, **F. Epifano**, P. de Medina, S. Fiorito, S. Genovese "Studies on the chemical stability of umbelliprenin, the active principle of *Ferulago* spp.", 9th Joint Natural Products Conference, Copenhagen (Denmark) 24-27 July 2016.
79. S. Fiorito, **F. Epifano**, V.A. Taddeo, S. Genovese, J. Azelmat, D. Grenier "The effect of prenylation on the antimicrobial activity of selected naturally occurring furanones and pyranones", 9th Joint Natural Products Conference, Copenhagen (Denmark) 24-27 July 2016.
80. V.A. Taddeo, S. Fiorito, **F. Epifano**, S. Genovese "Comparison of the extraction methods efficiency of selected prenylated and unprenylated coumarins and cinnamic acids in propolis", 9th Joint Natural Products Conference, Copenhagen (Denmark) 24-27 July 2016.
81. **F. Epifano**, S. Fiorito, V.A. Taddeo, R. Paciotti, A. Patruno, S. Genovese, C. Coletti "Studies on the interaction of 4'-geranyloxyferulic acid and nelumal A with pro-inflammatory enzymes", 9th Joint Natural Products Conference, Copenhagen (Denmark) 24-27 July 2016.
82. S. Fiorito, **F. Epifano**, V.A. Taddeo, S. Genovese, L. Sancineto, C. Santi "Preliminary investigations on seleno-analogues of plant oxyprenylated secondary metabolites", 9th Joint Natural Products Conference, Copenhagen (Denmark) 24-27 July 2016.
83. S. Genovese, S. Fiorito, V.A. Taddeo, C. Coletti, R. Paciotti, A. Patruno, **F. Epifano** "In vitro anti-inflammatory effects of geranyloxycinnamic acids and their conjugates with L-NAME", XXIV National Meeting in Medicinal Chemistry, Perugia 11-14 September 2016.

Invited Lectures

1. **F. Epifano** "Sesquiterpeni: recenti acquisizioni della letteratura", Scuola di Fitochimica "P: Ceccherelli 2000", Gargnano (BS), 28-30 October 2000.
2. **F. Epifano** "Chemistry and pharmacology of prenyloxyphenylpropanoids", Facoltà di Scienze, University of Reims (France), 20 September 2007.
3. **F. Epifano**, S. Genovese, L. Menghini, M.C. Marcotullio, M. Curini "Prenilossifenilpropanoidi: una nuova classe di composti naturali biologicamente attivi", Fitomed 2008, III Congresso Intersocietà sulle Piante Medicinali, Salerno, 25-27 June 2008.
4. **F. Epifano** "Insights on novel biologically active products: the case of auraptene", Faculté de Medecine Dentaire, Université Laval, Quebec City (Quebec, Canada), 16 September 2009.
5. **F. Epifano** "Variazioni del metabolismo secondario indotte da citoplasmici: il caso di *Grindelia robusta*", Le Piante officinali. Aspetti sanitari, erboristico-farmaceutici e paesaggistico-ornamentali, Palazzo Vespignani, Imola (BO), 21 May 2010.
6. **F. Epifano** "Chemistry and pharmacology of natural O-prenylatedferulic acid derivatives", Facoltà di Farmacia, University of Seville (Spain), 20 September 2010.
7. **F. Epifano** "Chemistry and biology of azoprenylated secondary metabolites", Facoltà di Farmacia, University of Seville (Spain), 21 September 2010.
8. **F. Epifano** "Chimica e farmacologia di derivati ossiprenilati dell'acido ferulico", Facoltà di Farmacia, Università di Salerno, 18 November 2010.
9. **F. Epifano** "Oxyprenylated secondary metabolites: a survey of their phytochemistry and pharmacognosy", Biocom12 – Semiochemicals involving plants, Cadiz (Spain), 10-12 September 2012.
10. **F. Epifano** "Analisi GC-MS di olii essenziali di *Monarda* da diverse condizioni colturali", Giornata di Studio "Valutazione Agronomico-Colturale e Fitoterapica di differenti generi di *Monarda* da utilizzare per scopi ornamentali ed officinali in Emilia-Romagna", Palazzo Vespignani, Imola (BO), 10 October 2014.
11. **F. Epifano** "Novel modulatory agents of melatonin receptors from natural kingdom", PSE Young Scientists' Meeting – Natural Products in Health, Agro-Food and Cosmetics, Lille (France), 28 Giugno – 1 July 2017.
12. **F. Epifano** "Oxyprenylated phenylpropanoids from *Citrus* spp.: their role in neuroprotection and cancer chemoprevention", The Fourth International Mediterranean Symposium on Medicinal and Aromatic Plants, MESMAP4,

Antalya (Turkey), 18-22 April 2018.

13. **F. Epifano** "Citrus auraptene: recent acquisitions and new perspectives as cancer therapeutic and chemopreventive agent", International Symposium on Natural Products in Cancer Prevention and Therapy - Trends in Methods and Modelling. Napoli 4-7 September 2018.
14. **F. Epifano** "Hunting for rare natural products", Summer School in Pharmaceutical Analysis 2019 – SSPA2019 "Current Trends in the Analysis of Medicinal Plants", Pescara, 11-13 September 2019.
15. **F. Epifano** "Pre-concentration and selective adsorption of plant secondary metabolites by solid sorbents", ISOPS 13, 13th International Symposium on Pharmaceutical Sciences, Ankara (Turkey), 22-25 June 2021.
16. **F. Epifano** "Recent updates on the phytochemistry and pharmacology of oxyprenylated secondary metabolites", Gazi Pharma Symposium Series 2021, Ankara (Turkey), 8-19 September 2021.
17. **F. Epifano** "Oxyprenylated phytochemicals: new acquisitions and findings over the last 5 years", The 9th International Mediterranean Symposium on Medicinal and Aromatic Plants, MESMAP9, Ankara (Turkey), 3-5 May 2023.
18. **F. Epifano** "Facing new challenges: a methodological approach to study a new category of natural products", Masaryk University Brno (Czech Rep.), 2 November 2023.
19. **F. Epifano** "Auraptene: a tale about a natural product", PSE Trends in Natural Products 2024 Young Scientists' Meeting, Brno (Czech Rep.), 21-24 May 2024.
20. **F. Epifano** "Auraptene: from its discovery to clinical trial", ISOPS 14, 14th International Symposium on Pharmaceutical Sciences Ankara (Turkey) 25-28 June 2024.
21. **F. Epifano** "Use of lamellar solids as a novel approach for food processing", SCI 2024, Congresso Nazionale della Società Chimica Italiana, Milan 26-30 August 2024.
22. **F. Epifano** "Lamellar solids as novel means for food processing", MESMAP11, Rimini, 6-8 May 2025.
23. **F. Epifano** "In search for novel antibiotics from nature: the case of simamycin and the role of oxyprenylated phenylpropanoids", PSE Trends in Natural Products 2025 Young Scientists' Meeting, Wroclaw (Poland), 2-6 June 2025.
24. **F. Epifano** "HPLC as a powerful analytical tool to screen prolidase inhibitors", iMASS Drug Analysis 2025, Bologna, 30 September 2025.

CHAPTERS IN BOOKS

1. **F. Epifano**, S. Genovese, M. Curini “Auraptene: Phytochemical and Pharmacological Properties” in *Phytochemistry Research Progress*, **2008**, T. Matsumoto ed., Nova Science Publishers Inc., Hauppauge, NY (USA), pp. 145-162.
2. L. Menghini, L. Leporini, R. Luzzi, M. Torlontano, F. Tammaro, **F. Epifano** “Ethnomedicine and phytochemistry of the genus *Potentilla*” in *Current Trends in Phytochemistry*, **2009**, F. Epifano ed., Research Signpost, Kerala, India, pp. 311-326.
3. M. Locatelli, G. Carlucci, S. Genovese, **F. Epifano** “Analytical Methods and Phytochemistry of the Typical Italian Liquor “Limoncello”: A Review” in *Phytochemicals – A Global Perspective of Their Role in Nutrition and Health*, **2012**, V. Rao Ed., InTech, Rijeka, Croatia, pp. 93-106.
4. **F. Epifano**, S. Genovese “Recent Acquisitions on Naturally Occurring Oxyprenylated Secondary Plant Metabolites” in *Chemistry and Pharmacology of Naturally Occurring Bioactive Compounds*, 2013, G. Brahmachari Ed., CRC Press, London, UK, pp. 239-258.
5. S. Fiorito, **F. Epifano**, F. Preziuso, V. A. Taddeo, S. Genovese “Biomolecular Targets of Oxyprenylated Phenylpropanoids and Polyketides”, *Prog. Chem. Org. Nat. Prod.* 2019, **108**, 143-205.

PATENTS

1. De Medina, P.; Bize, C.; Rives, A.; Paillasse, M.; **Epifano, F.**; Genovese, S. “Depigmenting Agents to Lighten the Skin”, EP15305836.7
2. De Medina, P.; Bize, C.; Rives, A.; Paillasse, M.; **Epifano, F.**; Genovese, S. “Skin Pigmentation Modifiers to Darken or Lighten the Skin”, WO 2016/193220 A1
3. **Epifano, F.**; Genovese, S., Fiorito, S. “Process for Removing the Residual Hydrocarbon Fraction of Crystals Deriving from Cannabis Oil and / or its Phytopreparations and Formulations Including Such Purified Crystals”, IT102021000017687A

SCIENTIFIC AWARDS

IADR / Glaxo Smith Kline Innovation in Oral Care Awards – Co-investigator of the project “Therapeutic Potential of *Citrus Auraptene* for Periodontal Disease”.

Apivita Award for Phytochemistry 2012 (issued by the Phytochemical Society of Europe)

Pierre Fabre – Phytochemical Society of Europe Innovation Award 2017

INTERNATIONAL EXCHANGE AND COLLABORATIONS

Hosted as teaching staff delegate at the Faculty of Pharmacy of University of Reims (France) in the frame of the Socrates/Erasmus exchange program 2007 from September 16th, 2007 to September 22nd, 2007.

From February 16th2009 to March 20th2009 expert evaluator of European Community Research Programs of 7th Frame Programme 2007-2013, call for proposal FP7-KBBE-2009-3 “Food, Agriculture and Fisheries and Biotechnologies”, topics KBBE-2009-3-1-01, “Optimisation of secondary metabolite production in plants: localisation, transport, storage and stability” and KBBE-2009-3-1-04 “Prospecting for novel plant-produced compounds”.

Hosted as “Visiting Professor” at the Faculty of Dentistry of University Laval, Quebec City (Quebec, Canada) from September 13th to September 20th 2009.

Hosted as teaching staff delegate at the Faculty of Pharmacy of University of Seville (Spain) in the frame of the Lifelong Learning Program (former Erasmus) exchange program 2010 from September 19th, 2010 to September 25th, 2010.

Hosted as teaching staff delegate at the Faculty of Pharmacy of University of La Laguna - Tenerife (Spain) in the frame of the Lifelong Learning Program (former Erasmus) exchange program 2011 from July 13th, 2011 to July 20th, 2011.

Member of the judge commission of the final exam of the European Ph.D. Course issued by the Faculty of Pharmacy of the University of Seville (Spain) (June 15th, 2012).

From April 28th2013 to June 28th2013 expert evaluator of European Community Research Program Tempus IV, 6th Call for Proposal EACEA/35/2012.

From June 2013 expert evaluator for the FNRS (Fond de la Recherche Scientifique – Belgium).

From April 1st 2014 to May 31st 2014 expert evaluator of the “Czech-Norwegian Research Program” 2014.

From November 4th 2014 expert evaluator of the French Research National Agency.

From March 15th 2016 to May 20th 2016 expert evaluator of European Community Research Program Erasmus Mundus Joint Master Degrees – Call 2016 - EAC/04/2015.

Hosted as “Visiting Professor” at the Faculty of Pharmacy of “Christian Albrecht” University of Kiel, Kiel (Germany) from September 25th to 30th June 2018.

From February 1st 2019 to June 10th 2019 expert evaluator of European Community Research Program Erasmus+ Capacity Building in Higher Education 2018.

From March 1st 2020 to April 25th 2020 expert evaluator of European Community Research Program Erasmus+ Capacity Building in Higher Education 2019.

Expert evaluator of European COST projects in 2016, 2018, 2019, 2020, 2021, 2022, 2024.

Chairman of the Organizing Committee of the following international Congresses:

1) New and Old Phytochemicals: Their Role in Ecology, Veterinary, and Welfare, Francavilla al Mare (CH), September 17-20, 2017;

2) RDPA 2019 – Recent Developments in Pharmaceutical Analysis 2019, Pescara, Italy, September 8-11, 2019;

3) PSE eCongress 2020 – Plant Derived Natural Products as Pharmacological and Nutraceutical Tools, September 15-18-22-25, October 6-9-13-16, 2020.

EDITORIAL ACTIVITY

He was the Editor in Chief of the book "Current Trends in Phytochemistry" published by Research Signpost eds. (Trivandrum, India). He's currently member of the Editorial Advisory Board of the journalsand "Current Drug Targets" and "Anti-inflammatory and Anti-Allergy Agents in Medicinal Chemistry" (Bentham Science Publ.), and Drugs and Therapy Studies (Pagepress Eds.). He's member of the Editorial Board of the Journal of Botanic: Targets and Therapy (Dove Medical Press) and Natural Product Communications. From January 2011 he has been being designated as Regional Editor for Europe of "The Natural Products Journal" (Bentham Science Publ.) and from April 2012 to January 2017 he has been Editor in Chief of the same journal. From April 2019 appointed as Section Editor (Chemistry + Pharmaceutical Sciences) for Heliyon (Elsevier). From November 2019 appointed as Editorial Board Member of Molecules (MDPI). From March 2020 appointed as Associate Editor for Phytochemical Analysis (Wiley). From January 2021 appointed as Editorial Advisory Board Member of Phytomedicine Plus (Elsevier). He was appointed as Guest Editor of special issues for the journals Anti-inflammatory and Anti-Allergy Agents in Medicinal Chemistry, Current Drug Targets, Current Medicinal Chemistry (Bentham Science Publ.), Natural Product Communications, Phytochemistry Reviews, and Molecules. He's referee of several international peer-reviewed journals in the field of Organic Chemistry, Medicinal Chemistry, Pharmaceutical Biology and Pharmacognosy like European Journal of Organic

Chemistry, Organic Letters, Journal of the Organic Chemistry, Journal of the American Chemical Society, Tetrahedron, Tetrahedron Letters, Tetrahedron Asymmetry, Current Organic Chemistry, Current Drug Targets, European Journal of Medicinal Chemistry, Bioorganic and Medicinal Chemistry, Bioorganic and Medicinal Chemistry Letters, Journal of Natural Products, Current Medicinal Chemistry, Mini Reviews in Medicinal Chemistry, Phytochemistry, Planta Medica, Phytotherapy Research, Natural Product Communications, Natural Product Reports, European Food Research and Technology, Molecular Nutrition and Food Research, Green Chemistry Letters and Reviews, Fitoterapia, Molecules, RSC Advances, Chemistry Central Journal, and several others.