



Valentine Ragoussis

Professor of Organic Chemistry



Education

- *B.Sc. in Chemistry*, University of Athens, Greece (1968)
- *Doctorat de Troisième Cycle in Organic Chemistry*, Université de Paris Sud, Faculté des Sciences d' Orsay, (1971).
- *Doctorat ès Sciences Physiques (Doctorat d' Etat)*, Université de Paris Sud,. Faculté des Sciences d' Orsay (1974).
- *Visiting postdoctoral scientist* : Ecole Polytechnique de Paris, Palaiseau (1979),



Research Field of Interest

1. Total Synthesis of Natural Products
2. Development of synthetic methodologies for application in the synthesis of Natural Products
3. Design and Synthesis of organic catalysts and applications in organic reactions.
4. Synthesis of pheromones targeting to control major pests



Teaching

UNDERGRADUATE COURSES:

- "*Classical Organic Chemistry*" for Chemistry and Biology students,
- "*Chemistry of Natural Products*" for 4th year Chemistry students
- "*Organic Chemistry Laboratory*" for 3rd year Chemistry

POSTGRADUATE COURSES (MSc):

- "Retrosynthetic Analysis" for Chemistry students
- "Isolation and Synthesis of Natural Products" Creta (1998-1999)
- MSc. Interdepartmental Program ΕΠΕΑΕΚ

STUDENT SUPERVISION

- Undergraduate students for diploma thesis,
- Postgraduate MSc. and Ph.D. Theses



Book Authorship

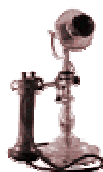
- "*Chemistry of Natural Products*" Athens 1996, in greek, for 4th year Chemistry students



Selected Papers

1. M. Liapis, V. Ragoussis and N. Ragoussis: "Improved Total Synthesis of (+) Drimenin", J. Chem. Soc. Perkin Trans. I, 1985, 815.
2. V. Ragoussis, M. Liapis, and N. Ragoussis: "Synthesis and Resolution of Albicanic Acid. Simple Access to Optically Active Drimane Sesquiterpenes", J. Chem. Soc. Perkin Trans. I, 1987, 987.
3. G.E. Haniotakis, V.G. Mavraganis and V. Ragoussis; "1,5,7-trioxaspiro[5,5]undecane, a Pheromone Analog with High Biological Activity, for the Olive Fruit Fly *Dacus oleae*", J. Chem. Ecology, 1989, 15, 1057.
4. V. Ragoussis, M. Liapis and N. Ragoussis; "Formal Total Synthesis of (+)-12-Deoxyscalarolide", J. Chem. Soc. Perkin Trans. I, 1990, 2545.
5. V. Ragoussis and V. Theodorou: "Stereoselective Access to Tetrahydropyranyl Acid Derivatives. Simple Synthesis of (+)-(S,S)-(cis-6-Methyltetrahydropyran-2-yl) acetic acid", Synthesis, 1993, 84.
6. V. Ragoussis, L. Leondiadis, E. Livaniou and Gr. Evangelatos; "A Simple Approach to the Synthesis of Muramic and Isomuramic Acids"; Carbohydrate Research, 1997, 297, 289.
7. V. Ragoussis, D.J. Lagouvardos and N. Ragoussis; "A short and efficient synthesis of 2-methyltetrahydrofuran-3-one"; Synthetic Commun., 1998, 28, 4273.
8. N. Ragoussis and V. Ragoussis: "Improvement on the synthesis of (E)-alk-3-enoic acids", J. Chem. Soc. Perkin Trans. I, 1998, 3529.
9. T. Kourouli, P. Kefalas, N. Ragoussis and V. Ragoussis: "A new protocol for a regioselective aldol condensation as an alternative convenient synthesis of β -ketols and $\alpha\beta$ -unsaturated ketones", J. Org. Chem. 2002, 67, 4615.
10. V. Ragoussis, E. Vamvaka and M. Kolymbadi; "Short and stereoselective synthesis of E-3-alkenyl acetates, insect pheromone constituents of Lepidoptera; Gelechiidae"; J.Chem. Research (S), 2002, 398.
11. A. Neokosmidi, V. Ragoussis, C. Zikos, M. Paravatou-Petsotas, E. Livaniou, N. Ragoussis and G. Evangelatos: "Synthesis of haptens and development of an immunoassay for the olive fruit fly pheromone", J. Agric. Food Chem. 2004, 52, 4368.
12. V. Ragoussis, M. Panopoulou and N. Ragoussis: "Concise preparation of the (3E,5Z)-alkadienyl system. New approach to the synthesis of principal insect sex pheromone constituents", J. Agric. Food Chem. 2004, 52, 5047.
13. M. Kolymbadi, M. Liapis and V. Ragoussis: "Synthesis of the marine furanoditerpene (-)-marginatone", Tetrahedron, 2005, 61, 2003.
14. V.Theodorou, V. Ragoussis, A. Strongilos, E. Zelepos, A. Eleftheriou and M. Dimitriou: "A convenient method for the preparation of primary amines using tritylamine", Tetrahedron Lett., 2005, 46, 1357.
15. V. Ragoussis and A. Giannikopoulos: "Palladium catalyzed reductive decarboxylation of allyl α -alkenyl- β -ketoesters. A new synthesis of (E)-3-alkenones", Tetrahedron Lett., 2006, 47, 683.
16. V. Theodorou, K. Skobridis, A. G. Tzakos and V. Ragoussis: "A simple method for the alkaline hydrolysis of esters", Tetrahedron Lett., 2007, 48, 8230.
17. V. Ragoussis, A. Giannikopoulos, E. Skoka and P. Grivas: "Efficient Synthesis of (\pm)-4-Methyloctanoic Acid, Aggregation Pheromone of Rhinoceros Beetles of the Genus *Oryctes* (Coleoptera: Dynastidae, Scarabaeidae)", J. Agric. Food Chem., 2007, 55, 5050.
18. A. Neokosmidi, V. Ragoussis, C. Zikos, M. Paravatou-Petsotas, E. Livaniou, N. Ragoussis and G. Evangelatos: "Determination of natural olive fruit fly pheromone in insect

- samples by enzyme linked immunoassays*", Talanta, 2008, 74, 539.
19. V. Ragoussis, S. Perdikaris, A. Karamolegkos and K. Magkiosi: "*Improved Synthesis of (3E,7Z)-3,7-Tetradecadienyl acetate, Major Sex Pheromone Constituent of Potato Pest Symmetrischema tangolias (Gyen) (Lepidoptera: Gelechiidae)*", J. Agric. Food Chem., 2008, 56, 11929.
 20. E. Tsandi, C. G. Kokotos, S. Kousidou, V. Ragoussis, G. Kokotos: "*Sulfonamides of homoproline and dipeptides as organocatalysts for Michael and aldol reactions*", Tetrahedron, 2009, 65, 1444.
 21. E. Barbayianni, P. Bouzi, V. Constantinou-Kokotou, V. Ragoussis, and G. Kokotos: "*Synthesis of homoproline analogues containing heterocyclic rings and their activity as organocatalysts for Michael reaction*", Heterocycles, 2009, 78, 1243.
 22. V. Theodorou, A. Karkatsoulis, M. Kinigopoulou, V. Ragoussis, and K. Skobridis: "*Tritylamine as an ammonia synthetic equivalent: preparation of primary amides*", Arkivoc, 2009, 11, 277-287.



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