Emeritus Professor, Dr. Konstantinos Litinas,
Laboratory of Organic Chemistry, Chemistry Department,
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Year/Place of Birth: May 1955/ Rethymnon, Crete, Greece.
Family Status: Married, with a daughter and a son.
Undergraduate studies: 1973-1978, Chemistry Department, School of Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece. Bachelor, in Chemistry (March 1978).
Postgraduate studies: 1978-1984, Laboratory of Organic Chemistry, Chemistry Department, School of Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece (under the supervision of Prof. D. N. Nicolaides). **"Studies on reactions of o-quinones with phosphonium ylides" (PhD. Grade Excellent, May 1984).**
Postdoctoral studies: 1992-1993, California Institute of Technology, Caltech, Pasadena, California, USA (Research in Olefin Metathesis, under the supervision of Prof. R. H. Grubbs, Nobel Laureate in Chemistry, 2005).
Fellowships: 1978-1981, Fellowship from National Fellowship Foundation (I.K.Y.) for PhD studies in Greece.
Academic Career: Laboratory of Organic Chemistry, Chemistry Department, School of Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece:
1981-1986: Scientific Fellow.
1986-1991: Lecturer.
1991-1999: Assistant Professor.
1999-2013: Associate Professor.
2013-2022: Professor
2023, April: Emeritus Professor
Military service: 1984-1986.
Research areas:

- Organic Synthesis.
- Natural Products Synthesis.
- Synthesis of compounds with possible biological activity.
- Synthesis of modified N-homonucleosides
- Application of organometallic reagents in Organic Synthesis
- Applications of metal-nanoparticles in Organic Synthesis

Research Funding:

- PYTHAGORAS II, 2005 "Synthesis of new pyrano[2,3-h]chromen-6-ones (pyranocoumarins) and 4-aza-analogues and study of their biological activity".
- HERAKLEITUS II, *2010*: "Synthesis and study of pyranoquinolinones (pyrido-coumarins) and fused derivatives of them with possible biological interest" (PhD *T.Symeonidis*);
- HERAKLEITUS II, *2010*: "Synthesis of homonucleosides and heterocyclic derivatives of purines with possible biological interest" (PhD *A.Thalassitis*);
- HERAKLEITUS II, *2010*: "Synthesis and study of pyranoindolones (pyrrolocoumarins) and fused derivatives of them with possible biological interest" (PhD *A. Vronteli*).
- Operational Programme "Human Resources Development, Education and Lifelong Learning" Partnership Agreement (PA) 2014-2020, *2020*: "Synthesis of fused pyranoquinolinone derivatives with possible biological interest"

Publications in Book Chapters:

Contribution with other colleagues in *Experimental Organic Chemistry, A. General Part*, Gartaganis Publishing., Thessaloniki, Greece, 2009 and in *Experimental Organic Chemistry, B. Specific Part*, Gartaganis Publishing., Thessaloniki, Greece, 2010.
Contribution with other colleagues to the translation of *Klein Organic Chemistry*, Utopia Publishing, Athens, Greece, 2015.
Contribution with other colleagues to the translation of *Pavia, Lampman, Kriz, VyVyan Introduction to Spectroscopy*, Broken Hill, Nicosia, Cyprus, 2020.
Contribution with other colleagues to the translation of *Pavia, Lampman, Kriz, Engel A Microscale Approach to Organic Chemistry Laboratory Techniques*, Broken Hill, Nicosia, Cyprus, 2020.
Publications in peer-reviewed Journals: 96.
Presentations in Scientific Congress: 98
Selected Publications:
- M. D. Douka, I. M. Sigala, E. Nikolakaki, K. C. Prousis, D. J. Hadjipavlou-Litina, K. E. Litinas, *ChemistrySelect* **2024**, *9*, e202401957. Cu-Catalyzed Synthesis of Coumarin-1,2,3-Triazole Hybrids connected with Quinoline or Pyridine Framework.
- E.-E. N. Vlachou, E. Pontiki, D. J. Hadjipavlou-Litina, K. E. Litinas, Organics **2023**, *4*, 364. Synthesis and Biological Evaluation of Substituted Fused Dipyranoquinolinones.
- C. Christou, I. Pavlou, I. Sigala, E. Nikolakaki, D. J. Hadjipavlou-Litina, K. E. Litinas, *Arkivoc* **2023** (vii) 202312085. Synthesis of pyridocoumarin β-glycosides with possible biological activity.
- M. Douka, K. E. Litinas. *Molecules* **2022**, *27*, 7256.An Overview on the Synthesis of Fused Pyridocoumarins with Biological Interest.
- E.-E. N. Vlachou, I. Fotopoulos, C. Gabriel, E. Pontiki, D. J. Hadjipavlou-Litina, K. E. Litinas. *Eur. J. Med. Chem. Reports* **2022**, *5*, 100063. Synthesis and biological evaluation of fused dipyranoquinolinones as inhibitors of acetylcholinesterase with antioxidant properties.
- T. D. Balalas, M. G. Kanelli, C. Gabriel, E. Pontiki, D. J. Hadjipavlou-Litina, K. E. Litinas. *Synthesis* **2022**, *54*, 2894. Pd Catalyzed N-H or C-H functionalization/oxidative cyclization for the efficient synthesis of N-aryl substituted [3,4]-fused pyrrolocoumarins.
- M. D. Douka, K. E. Litinas. *Arkivoc*, **2021**, *(viii)*, 107-118.One-pot synthesis of 5*H*-chromeno[3,4-*b*]pyrazin-5-one derivatives from 4-amino-3-nitrocoumarin and α-dicarbonyl compounds.
- T. D. Balalas, A. K. Theologis, K. Mazaraki, C. Gabriel, E. Pontiki, D. J. Hadjipavlou-Litina, K. E. Litinas *Arkivoc* **2020**, *vi*, 126. Efficient synthesis of 2-substituted 1-phenylchromen[3,4-*d*]imidazol-4(1*H*)-ones with possible anti-inflammatory activity.
- Vlachou, E.-E.; Gabriel, C. Litinas, K. E. *J. Heterocyclic Chem*.**2019**, *56*, 99.
One-pot Synthesis of Fused Dipyranocoumarins from Dihydroxycoumarins and Propargyl Chlorides under Microwave Irradiation
- T. D. Balalas, G. Stratidis, D. Papatheodorou, E.-E. Vlachou, C. Gabriel, D. J. Hadjipavlou-Litina, K. E. Litinas SynOpen **2018**, *2*, 105. One-pot Synthesis of 2-Substituted 4H-Chromeno[3,4-d]oxazol-4-ones from 4-Hydroxy-3-nitrocoumarin and Acids in the Presence of Triphenylphosphine and Phosphorus Pentoxide under Microwave Irradiation.
- E.-E. N. Vlachou, G. S. Armatas, K. E. Litinas *J. Heterocyclic Chem.* **2017**, 54, 2447. Synthesis of fused oxazolocoumarins from *o*-hydroxynitrocoumarins and benzyl alcohol under gold nanoparticles or $FeCl_3$ catalysis

- T. Balalas, A. Abdul-Sada, D. J. Hadjipavlou-Litina, K. E. Litinas *Synthesis* **2017,** *49*, 2575. Pd-Catalyzed efficient synthesis of azacoumestans *via* intramolecular cross coupling of 4-arylaminocoumarins in the presence of copper acetate under microwaves.
- T. Balalas, C. Peperidou, D. J. Hadjipavlou-Litina, K. E. Litinas *Synthesis* **2016,** *48*, 281. Phenyliodine(III) Bis(trifluoroacetate) Mediated Synthesis of 6-Piperidinylpurine Homo-*N*-nucleosides Modified with Isoxazolines or Isoxazoles.
- A. Vronteli, D. J. Hadjipavlou-Litina, M. Konstantinidou, K. E. Litinas *ARKIVOC* **2015**, *iii*, 111. Synthesis of fused pyranocarbazolones with biological interest.
- A. N. Thalassitis, D. J. Hadjipavlou-Litina, K. E. Litinas *J. Heterocyclic Chem.,* **2015**, *52*, 366. Synthesis of Fused 9,10-Dihydro-6H-Azepino- and 9,10-Dihydro-6H-[1,3]Diazepino[1,2-e]Purines via Ring Closing Metathesis as Antilipid Peroxidation Agents.
- M. G Kallitsakis, M. Yaɒez, E. Soriano, J. Marco-Contelles, D. J Hadjipavlou-Litina, K. E Litinas, *Future Medicinal Chemistry* **2015,** FMC *7*, 103. Purine homo-*N*-nucleoside+coumarin hybrids as pleiotropic agents for the potential treatment of Alzheimer's disease.
- M. G. Kallitsakis, D. J. Hadjipavlou-Litina, A. Peperidou, K. E. Litinas. *Tetrahedron Lett.* **2014**, *55*, 650. Synthesis of 4-hydroxy-3-[(E)-2-(6-substituted-9H-purin-9-yl)vinyl]coumarins as lipoxygenase inhibitors.
- T. S. Symeonidis, K. E. Litinas. *Tetrahedron Lett*. **2013**, *54*, 6517. Synthesis of methyl substituted [5,6]- and [7,8]-fused pyridocoumarins via the iodine-catalyzed reaction of aminocoumarins with n-butyl vinyl ether.
- T. S. Symeonidis, I. N. Lykakis, K. E. Litinas. *Tetrahedron*, **2013**, *69*, 4612. Synthesis of quinolines and fused pyridocoumarins from N-propargylanilines or propargylaminocoumarins by catalysis with gold nanoparticles supported on TiO_2
- M. G. Kallitsakis, D. J. Hadjipavlou-Litina, K. E. Litinas. *J. Enz. Inh. Med. Chem.* **2013**, *28*, 765. Synthesis of purine homo-N-nucleosides modified with coumarins as free radical scavengers.