

**Professor, Dr. Konstantinos Litinas,
Laboratory of Organic Chemistry, Chemistry Department,
Aristotle University of Thessaloniki, Thessaloniki, Greece.**

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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-now: 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 (pyridocoumarins) 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 pyranoidolones (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.

Publications in peer-reviewed Journals: 87.

Presentations in Scientific Congresses: 95

Selected Publications:

- 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 Dipyrancoumarins from Dihydrocoumarins 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*, 105-113. One-pot Synthesis of 2-Substituted 4*H*-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*, 2447-2453. Synthesis of fused oxazolocoumarins from *o*-hydroxynitrocoumarins and benzyl alcohol under gold nanoparticles or FeCl₃ catalysis

- T. Balalas, A. Abdul-Sada, D. J. Hadjipavlou-Litina, K. E. Litinas *Synthesis* **2017**, *49*, 2575–2583. 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. Phenylodine(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-6*H*-Azepino- and 9,10-Dihydro-6*H*-[1,3]Diazepino[1,2-*e*]Purines *via* Ring Closing Metathesis as Antilipid Peroxidation Agents.

- M. G Kallitsakis, M. Yapez, 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.
- A. Thalassitis, A. - M. Katsori, K. Dimas, D. J. Hadjipavlou-Litina, F. Pylaris, N. Sakellaridis, K. E. Litinas. *J. Enz. Inh. Med. Chem.* **2014**, **29**, 109. Synthesis and biological evaluation of modified purine homo-*N*-nucleosides containing pyrazole or 2-pyrazoline moiety.
- 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 TiO₂
- 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 radicals scavengers.
- T. S. Symeonidis, M. G. Kallitsakis, K. E. Litinas. *Tetrahedron Lett.* **2011**, 52, 5452. Synthesis of [5,6]-fused pyridocoumarins through aza-Claisen rearrangement of 6-propargylaminocoumarins.
- K. E. Litinas, A. Thalassitis. *Tetrahedron Lett.*, **2010**, 51, 6451. Synthesis of fused dihydropyrido[e]purines via ring closing metathesis.
- K. E. Litinas, T. S. Symeonidis, *Tetrahedron*, **2010**, 66, 1289. Convenient synthesis of fused pyrano[3,2-*h*]- and furo[3,2-*h*]benzo[*f*]coumarins from naphthalene-2,3-diol.
- A. Thalassitis, D. J. Hadjipavlou-Litina, K. E. Litinas, P. Miltiadou, *Bioorg. Med. Chem. Lett.*, **2009**, 19, 6433. Synthesis of modified homo-*N*-nucleosides from the reactions of mesityl nitrile oxide with 9-allylpurines and their influence on lipid peroxidation and thrombin inhibition.
- T. Symeonidis, K. C. Fylaktakidou, D. J. Hadjipavlou-Litina, K. E. Litinas, *Eur. J. Med. Chem.*, **2009**, 44, 5012. Synthesis and anti-inflammatory evaluation of novel angularly or linearly fused coumarins.
- E. Galariniotou, V. Fragos, A. Makri, K. E. Litinas, D. N. Nicolaides. *Tetrahedron*, **2007**, 63, 8298. Synthesis of novel pyridocoumarins and benzo- fused 6-azacoumarins.
- K. C. Fylaktakidou, D. J. Hadjipavlou-Litina, K. E. Litinas, D. N. Nicolaides. *Curr. Pharm. Des.*, **2004**, 10, 3813. (Review). Natural and synthetic coumarin derivatives with anti-inflammatory/antioxidant activities.