

ELIAS A. COULADOUROS

CURRICULUM VITAE

Name : Elias A. Couladouros
Date of Birth : September 23rd, 1956
Place of Birth : Athens
Occupation : Professor of Organic Chemistry
Correspondence Address : 1. Chemistry Laboratory, Agricultural University of Athens,
Iera Odos 75, Athens 118 55
2. Organic and Bioorganic Chemistry Laboratory, Institute of
Physical Chemistry, N.C.S.R. "Demokritos",
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EDUCATION

1988–1989 Post Doctoral, University of Pennsylvania, Philadelphia P.A.
Prof. K. C. Nicolaou
1984 Ph.D. in Organic Chemistry, Agricultural University of Athens
Prof. M. P. Georgiadis
1979 B.Sc. in Chemistry, National and Kapodistrian University of
Athens

FIELDS

Organic Synthesis, Natural Products, Bioorganic Chemistry,
Medicinal Chemistry, Combinatorial Chemistry

APPOINTMENTS

2015 – Co-founder and Scientific Advisor of pro-RaD pharma-
chemicals P.C.
2006 – 2015 Co-founder and Scientific Advisor of pro-ACTINA S.A.
"Advanced Chemical Technologies"
2004 – 2006 Founder of pro-ACTINA Ltd
1999 – Professor of Chemistry, Agricultural University of Athens,
Chemistry Laboratory
1997 – Visiting Researcher N.C.S.R. "Demokritos" (Set up and
management of the Natural Product Synthesis and Bioorganic
Chemistry Laboratory)
1995 – 1999 Associate Professor of Chemistry, A.U.A., Chemistry
Laboratory

1993 – 1994	Visiting Scientist, Scripps Research Institute, CA, USA
1990 – 1995	Assistant Professor of Chemistry, A.U.A., Chemistry Laboratory
1990	Visiting Professor, University of California, San Diego, USA
1987 – 1990	Lecturer, A.U.A., Chemistry Laboratory
1988 – 1989	Research Associate (Post Doc.), University of Pennsylvania, Philadelphia P.A., USA
1984 – 1986	Obligatory military service: Greek Army
1980 – 1987	Scientific Collaborator, A.U.A., Chemistry Laboratory

SELECTED PROFESSIONAL ACTIVITIES

Referee European Journal of Organic Chemistry (Editorial Board member), Journal of Organic Chemistry, Angewandte Chemie International Edition, Chemistry – a European Journal, Tetrahedron Letters, Current Organic Synthesis, Universal Organic Chemistry, Organic Chemistry Frontiers, Bioorganic and Medicinal Chemistry Letters, Medicinal Chemistry Letters, European Journal of Medicinal Chemistry, Archiv der Pharmazie.

Invited Presentations National and Kapodistrian University of Athens, University of Patras, Aristotle University of Thessaloniki, University of Ioannina, University of Crete, N.C.S.R. "Demokritos", University of Leipzig, University of Dresden, University of Southampton

Member of scientific societies Member of the Greek Chemical Society, Member of the American Chemical Society and the Organic, Medicinal & Carbohydrate Divisions, National Representative and Vice President of the European Cooperation in the Field of Scientific and Technical Research (COST D28: "Natural products as a source for discovery, synthesis and application of new pharmaceuticals")
National Representative

RESEARCH ACTIVITIES

Total asymmetric synthesis of natural products:

- Methodology for the synthesis of type A polyprenylated acylphloroglucinols (PPAPs)
- Polycyclic polyketides (Abyssomicins) of antibiotic activity against MRSA and VRSA strains
- Biaryl ethers (Bastadins, Combretastatins) of anticancer and antibiotic activity
- Antioxidant naphthoquinones (Alkannin and Shikonin) of wound healing and anti-inflammatory activity
- Steroids (Adociasulfate-2) cytotoxic specific inhibitors of kinesins
- Bioactive macrolactones (Radicicol, Resorcylide)
- Inhibitors of tumor necrosis factor- α (TNF- α), (Bisorbisillinoids)

- Methodology for the synthesis of γ - and δ - lactones. Preparation of insect pheromones and (-)-Muricatacin
- Anticancer diketopiperazines, (-)-Phenylahistine & (-)-Aurantiamine

Combinatorial Chemistry:

Design, synthesis and development of bioactive derivatives of pharmacophoric scaffolds

- Directed libraries of pharmacophoric molecules (aminosugars, aminocyclitols, benzodiazepines, anthraquinones, pyrans, oxazolines)
- Novel derivatives of anticancer, microtubule polymerizers (Phenylahistin, Taxol)

Advanced materials:

- Microcapsules for the ecologic control of harmful insects
- Photosensitizers applied in microlithography
- Liquid crystals from nucleic acid derivatives

FINANCIAL SUPPORT

As coordinator

1) PAVE '94

"Identification, analysis and development of secondary metabolites structurally and functionally related to Taxol. Research on *Taxus baccata* and other conifer" (29.250.000dr)
Industrial participant: UNI-PHARMA s.a.

2) YPER '94

"Controlled release polyurea-polyurethane microencapsulation systems with agricultural applications" (13.000.000dr)
Industrial participant: ALCHIMICA s.a.

3) EPET II '98

"Development and exploitation of biotechnological methods for the production of Taxol® and related metabolites" (200.000.000dr)
Industrial participant: UNI-PHARMA s.a.

4) PAVE '99

"Synthetic preparation of Sikalkine's esters, main component of Helixderm®" (66.450.000dr)
Industrial participant: GEROLYMATOS s.a.

5) ZeinCRO s.a. '00

"Molecular design and synthesis of biological active quinones" (15.000€)
Direct funding

6) PENED '01

"Synthesis and evaluation of bioeffective naphthoquinones and colourless derivatives for wound healing applications" (159.236,98€)
Industrial participant: GEROLYMATOS s.a.

7) GREEK-POLISH COLLABORATION '02

"*In vitro* and *in vivo* effect of synthetic Bastadines in intracellular calcium pools of cerebral neurons" (4.200.000dr)

8) GREEK-ITALIAN COLLABORATION '03

"Identification and study of sea biotoxins from breed ostracea" (21.513€)

9) GREEK-CYPRUS COLLABORATION '03

"Total synthesis of β - and γ -tocotrienols" (11.153€)

10) PRAXE '03 (Phase A)

"Study for the production and trading of high technology products for biotechnological and pharmaceutical research" (44.000€)

11) PYTHAGORAS-EPEAEK II

"Production of bioactive – heterocyclic compounds with combinatorial chemistry"(70.000€)

12) PRAXE '06 (Phase B)

"Study for the production and trading of high technology products for biotechnological and pharmaceutical research" (1.500.000€)

13) HERACLITUS II- NSRF 2007-13

"Design and Synthesis of bioactive analogues of Hyperforin, ingredient of *Hypericum perforatum* with anticancer and antidepressant activity" (45.000€)

As collaborating participant

- 1) **Internal Research Grants of A.U.A. '92**, "Derivatives of *D*-glyceral as inhibitors of serine's proteases: Synthesis, evaluation of their biological activity and correlation of structure-activity" (2.000.000dr)
- 2) **PENED '94**, "Mixed-arm styrene-isoprene star copolymers of the type AvBv using polyols of fixed geometry" (13.000.000dr)
- 3) **ESPRIT '99**, Financing 2,2 MECU, Title: "Resist 193/157" (coordinator: Dr. E. Goggolidis; N.C.S.R. "Demokritos")
- 4) **INTEL s.a. '03, '04, '05**, "Polycarbocycles as etch resistants and dissolution promoters" (300.000€)
- 5) **COOPERATION NSRF 2007-13** "From Targets to Leads: Innovative therapeutics for arthritis" (2.445.750€)
- 6) **COOPERATION NSRF 2007-13** "PIK3CA Oncogenic Mutations in Breast and Colon Cancers: Development of Targeted Anticancer Drugs and Diagnostics" (2.453.625€)
- 7) **COOPERATION NSRF 2007-13** "Phospholipases A₂ inhibitors: Developing a drug pipeline for the treatment of inflammatory neurological disorders" (2.000.000€)
- 8) **Marie Curie Industry-Academia Partnerships and Pathways (IAPP) Call: FP7-PEOPLE-2011-IAPP**, " Management of Resistance to Tyrosine Kinase Inhibitors with Advanced Nanosystems " (1.405.417€)
- 9) **ERA.Net RUS** "Development of Novel Natural Product-based Imaging Probes for Early Diagnosis and Therapeutic Application in Multi-Drug Resistant Tumors" (406.800€)

Scientific Networks

- **"Theofrastos"** network for the development of natural products
- National representative and Vice Chairman of the European Cooperation in the Field of Scientific and Technical Research **COST D28**: "Natural products as a source for discovery, synthesis and application of new pharmaceuticals".
- National representative of the **"COST CM 0804"** network with the title: «Chemical Biology with Natural Products»

CURRENT RESEARCH GROUP

Twelve (12) Ph.D. theses granted:

I. Soufli (1998), Z. Plyta (1998), A. Mihou (2001), V. Moutsos (2002), A. Strongilos (2002), V. Vidali (2004), A. Michaelakis (2006), A. Magkos (2006), E. Bouzas (2007), M. Dakanali (2008), M. Lampropoulou (2009), K. Mitsopoulou (2014), A. Kapella (2018)

One Ph.D. candidate: A. Tsanko

TUTORIAL EXPERIENCE

- ❑ Teaching at the graduate program "Exploitation and Study of Natural Products" of the Department of Food Science and Human Nutrition of A.U.A.
- ❑ Teaching at the graduate program "Biotechnology and Applications in Agronomics" of the Department of Agricultural Biotechnology of A.U.A.
- ❑ Teaching of Organic Chemistry in a graduate level at the department of Natural Products and Biotechnology of the Mediterranean Agronomic Institute of Chania (CIHEAM)
- ❑ Teaching of Organic Chemistry in a graduate level at the Department of Physical Chemistry of N.C.S.R. "Demokritos"
- ❑ Teaching of Synthetic Organic Chemistry I (C-C bond formation) at the graduate program "Natural Products" of the Department of Chemistry of the University of Crete
- ❑ Teaching of Synthetic Organic Chemistry at the graduate program "Organic Synthesis and its applications in the Chemical Industry" of the Department of Chemistry of the National and Kapodistrian University of Athens
- ❑ Graduate courses in Organic Chemistry at the Laboratory of Dairy Technology, Food Science and Technology Department, A.U.A.

1980 – 1990	Laboratory of Inorganic Chemistry, A.U.A.
1980 –	Laboratory of Organic Chemistry, A.U.A.
1986 –	Undergraduate lesson of Organic Chemistry, A.U.A.
1992 –	Undergraduate lesson of Inorganic Chemistry, A.U.A.

SELECTED WORKS

- Contribution in the synthesis of TAXOL and novel TAXOIDS
- Contribution in the synthesis and methodology of BREVETOXINS
- Total synthesis of 45 natural products included:
 1. Synthesis of COMBRETASTATINS
 2. Synthesis of ALKANNIN
 3. Synthesis of BASTADINS
- Libraries of polymorphic scaffolds (Combinatorial Chemistry)
- "Naphtho-1,4-quinones"

In *Science of Synthesis*, Georg Thieme Verlag, Stuttgart, NY, 28, 217-322, **2006** (Book chapter).

COLLABORATIONS

Agricultural University of Athens (M. Polissiou, P. Hatjopoulos, S. Haroutounian)

Aristotle University of Thessaloniki (V. Papageorgiou)

University of Athens (N. Hatjichristidis, V. Roussis)

Institute of Physical Chemistry N.C.S.R. "D" (C. Paleos)

Institute of Biology N.C.S.R. "D" (V. Mazomenos)

Institute of Microelectronics N.C.S.R. "D" (P. Argitis)

The Scripps Research Institute CA, USA, (K. C. Nicolaou)

Universität Leipzig-Germany, (A. Giannis)

Polish Academy of Sciences (J. Lazarewicz)

University of Naples (I. Fattorusso)

Industries: Unipharma-Kleon Tsetis s.a.

Alchimica-C. Krimizis s.a.

P. N. Gerolymatos s.a.

ZeinCRO Hellas s.a.

YASOO ltd

INTEL USA s.a.

PHARMATHEN s.a.

PUBLICATIONS - CONFERENCES

91 published articles in ICI Web of Science listed journals (h-index=27) with 3.194 citations (self-citations excluded)

13 patents.

102 participations in scientific conferences.

1 text book.

SCIENTIFIC WORK

Ph.D. Thesis

"Synthesis of Anticoccidials and Aminosugars from Furan. Stereochemical Studies of the New Compounds by ¹H NMR"

Couladouros, E. A.

Ph.D. Thesis, Agricultural Univ. of Athens, **1984**.

Scientific Articles

1. "Products from Furans III. Crystal and Molecular Structure, Proton Nuclear Magnetic Resonance, and Conformational Studies of 2-Aryl Substituted 2-Methyl-6-hydroxy-2H-pyran-3(6H)-one Derivatives"
Georgiadis, M. P.; Couladouros, E. A.; Polissiou, M. G.; Filippakis, S. E.; Mentzafos, D.; Terzis, A.
J. Org. Chem., *47*, 3054-3058, **1982**.
2. "Products from Furans IV. Selective Oxidation of 2-Furfuryl Alcohol Derivatives, in the Presence of Aryl Thioethers, with *N*-Bromosuccinimide (NBS). A New Procedure for the Preparation of 2H-Pyran-3(6H)-ones"
Georgiadis, M. P.; Couladouros, E. A.
J. Org. Chem., *51*, 2725-2727, **1986**.
3. "Products from Furan VII. A synthetic route to C-Substituted Aminodeoxypolyols and their *cis*-Pt -Complexes"
Georgiadis, M. P.; Couladouros, E. A.; Chondros, C. P.
Chimika Chronika, New Series, Inter. Ed., *17*, 245-250, **1988**.
4. "Bridging of Macrodithionolactones to Bicyclic Systems. Synthesis and Modeling of Oxapolycyclic Frameworks"
Nicolaou, K. C.; Hwang, C.-K.; Marron, B. E.; DeFrees, S. A.; Couladouros, E. A.; Abe, Y.; Carroll, P. J.; Snyder, J. P.
J. Am. Chem. Soc., *112*, 3040-3054, **1990**.
5. "Stereocontrolled Second Generation Syntheses of the ABC and FG Ring Systems of Brevetoxin B"
Nicolaou, K. C.; Nugiel, D. A.; Couladouros, E. A.; Hwang, C.-K.
Tetrahedron, *46*, 4517-4552, **1990**.
6. "Stereoselective Ring Closure of 6-[[*N*-(Methylamino) carbonyl]oxy]-2H-pyran-3(6H)-ones. Formation of the 5H-Pyrano[3,2-*d*]oxazole-2,6-dione Ring System"
Georgiadis, M. P.; Couladouros, E. A.
J. Heterocyclic Chem., *27*, 1757-1760, **1990**.

7. "A Novel Approach to Hex-2-enos-4-uloses from Glycals. Synthesis of Chiral 6-Hydroxy-(2*R*)-2-hydroxymethyl-2*H*-pyran-3(6*H*)-one and its Trityl Derivative"
Grapsas, I. K.; Couladouros, E. A.; Georgiadis, M. P.
Polish J. Chem., 64, 823-826, **1990**.
8. "Products from Furans VII. A General Route for the Synthesis of α -(1,2 *cis*) and β -(1,2 *trans*) Glycoconjugates via 1-*O*-Acyl and 1-*O*-Ethoxycarbonyl-2-azido-2,3-dideoxyglycopyranosides"
Georgiadis, M. P.; Couladouros, E. A.
J. Heterocyclic Chem., 28, 1325-1337, **1991**.
9. "Total Synthesis of 4-(*D*-alanyl-amino)-2-amino-2,3,4-trideoxy-*DL*-*threo*-pentose (3-deoxy-*DL*-prumycin)"
Constantinou-Kokotou, V.; Couladouros, E. A.; Georgiadis, M. P.; Kokotos, G.; Georgiadis, T. M.
Carbohydr. Res., 222, 163-172, **1991**.
10. "Resolution of 2,3-Dideoxy-*DL*-2-enopyranos-4-uloses via Chromatographic Separation of their Diastereomeric *O*-*tert*-Butyloxycarbonyl-*L*-alanyl Esters. A Convenient Synthesis of *L*- and *D*-Aculose"
Constantinou-Kokotou, V.; Couladouros, E. A.; Georgiadis, M. P.; Kokotos, G.
J. Carbohydrate Chem., 10, 749-756, **1991**.
11. "Products from Furans XVI. Novel Synthetic Routes to Sympathomimetic Amine Analogues via 6-Hydroxy-2*H*-pyran-3(6*H*)-ones"
Georgiadis, M. P.; Haroutounian, S. A.; Couladouros, E. A.; Apostolopoulos, C. D.; Chondros, K. P.
J. Heterocyclic Chem., 28, 697-703, **1991**.
12. "Synthesis and Antimicrobial Properties of 2*H*-Pyran-3(6*H*)-one Derivatives and Related Compounds"
Georgiadis, M. P.; Couladouros, E. A.; Delitheos, A. K.
J. Pharm. Sci., 81, 1126-31, **1992**.
13. "Stereoselective Synthesis of Sugar-amino Acid Conjugates. A Novel Class of Amino Sugars"
Couladouros, E. A.; Apostolopoulos, C. D.; Georgiadis, M. P.
Carbohydr. Res., 249, 399-404, **1993**.
14. "A Synthesis in one Reaction Vessel of 2,4-Diamino Sugar Precursors from 2,3-Dideoxy-2-enopyranos-4-uloses"
Couladouros, E. A.; Constantinou-Kokotou, V.; Georgiadis, M. P.; Kokotos, G.
Carbohydr. Res., 254, 317-324, **1994**.
15. "Synthesis of Novel Taxoids"
Nicolaou, K. C.; Claiborne, C. F.; Nantermet, P. G.; Couladouros, E. A.; Sorensen, E. J.
J. Am. Chem. Soc., 116, 1591-1592, **1994**.
16. "Total Synthesis of Taxol"
Nicolaou, K. C.; Yang, Z.; Liu, J. J.; Ueno, H.; Nantermet, P. G.; Guy, R. K.; Claiborne, C. F.; Renaud, J.; Couladouros, E. A.; Paulvannan, K.; Sorensen, E. J.
Nature, 367, 630-634, **1994**.
17. "Synthesis of Sugar-amino Acid Conjugates via 2,3-Dideoxy-hex-2-enopyranos-4-uloses"
Apostolopoulos, C. D.; Couladouros, E. A.; Georgiadis, M. P.
Liebigs Ann. Chem., 781-784, **1994**.

18. "Synthesis and Antifungal Activity of 3-Deoxy-*DL*-prumycin Analogues"
Constantinou-Kokotou, V.; Kokotos, G.; Chrysayi-Tokousbalides, M.; Couladouros, E. A.; Georgiadis, M. P.
Liebigs Ann. Chem., 847-850, **1994**.
19. "Synthesis of Combretastatin D-2. An Efficient Route to Caffrane Macrolactones"
Couladouros, E. A.; Soufli, I. C.
Tetrahedron Lett., 35, 4409-4412, **1994**.
20. "Synthesis of C-2 Taxol Analogues"
Nicolaou, K. C.; Couladouros, E. A.; Nantermet, P. G.; Renaud, J.; Guy, R. K.; Wrasidlo, W.
Angew. Chem., Int. Ed. Engl., 33, 1581-1583, **1994**.
21. "A Convenient Synthesis of 2-Thio-sugars and Symmetric β -Keto-sulfides from 2,3-Dideoxy-hex-2-enopyranose-4-uloses"
Apostolopoulos, C. D.; Couladouros, E. A.; Georgiadis, M. P.
Polish J. Chem., 68, 1725-1729, **1994**.
22. "Total Synthesis of Taxol. 1. Retrosynthesis, Degradation and Reconstitution"
Nicolaou, K. C.; Nantermet, P. G.; Ueno, H.; Guy, R. K.; Couladouros, E. A.; Sorensen, E. J.
J. Am. Chem. Soc., 117, 624-633, **1995**.
23. "Electron Impact Ionization Mass Spectra of 6-Carbamoyloxy-3-oxo-3,6-dihydro-2*H*-pyran and 5*H*-Pyrano-[3,2-*d*]-oxazole-2,6-dione Derivatives."
Couladouros, E. A.; Haroutounian, S. A.
J. Heterocyclic Chem., 32, 579-584, **1995**.
24. "Chemical Synthesis and Biological Evaluation of C-2 Taxoids"
Nicolaou, K. C.; Renaud, J.; Nantermet, P. G.; Couladouros, E. A.; Guy, R. K.; Wrasidlo, W.
J. Am. Chem. Soc., 117, 2409-2420, **1995**.
25. "Total Synthesis of Brevetoxin B. 2. Second Generation Strategies and Construction of the Dioxepane Region [DEFG]"
Nicolaou, K. C.; Theodorakis, E. A.; Rutjes, F. P. J. T.; Sato, M.; Tiebes, J.; Xiao, X.-Y.; Hwang, C.-K.; Duggan, M. E.; Yang, Z.; Couladouros, E. A.; Sato, F.; Shin, J.; He, H.-M.; Bleckman, T.
J. Am. Chem. Soc., 117, 10239-10251, **1995**.
26. "Total Synthesis of Natural (-)-Combretastatin D-1"
Couladouros, E. A.; Soufli, I. C.
Tetrahedron Lett., 36, 9369-9372, **1995**.
27. "1,4- Reductive Addition of Hydrazoic Acid"
Couladouros, E. A.; Apostolopoulos, C. D.
Syn. Lett., 341-342, **1996**.
28. "A General Procedure for the Efficient Synthesis of (Alkylamino)naphthoquinones"
Couladouros, E. A.; Plyta, Z. F.; Papageorgiou, V. P.
J. Org. Chem., 61, 3031-3033, **1996**.
29. "Reaction of 4'-Benzyloxy-2-(4-pyridinyl)-acetophenone with Ethylmagnesium Chloride: Unusual C-Benzoylation and *in situ* Reduction by β -Hydrogen Transfer"
Haroutounian, S. A.; Couladouros, E. A.
Liebigs Ann., 1139-1141, **1996**.

30. "Ring Chain Transformation of γ -Keto- δ -crotonolactones: A Convenient Synthesis of 1,4-Piperazinones, 1,4-Thiazinones and 1,4-Diazepinones"
Apostolopoulos, C. D.; Georgiadis, M. P.; Couladouros, E. A.
J. Heterocyclic Chem., 33, 703-708, **1996**.
31. "Heteroannulation of Naphthoquinones. Studies on the Reaction of 2-Bromo-2,3-dihydronaphthoquinone Derivatives with 1,2-Binucleophiles"
Couladouros, E. A.; Plyta, Z. F.; Iliadis, T.; Roussis, V.; Papageorgiou, V. P.
J. Heterocyclic Chem., 33, 709-714, **1996**.
32. "Electron Impact Mass Spectrometry of Azinyl and Diazinyl Ethanol Derivatives"
Apostolopoulos, C. D.; Koulocheri, S. D.; Couladouros, E. A.; Haroutounian, S. A.
Eur. Mass Spectrom., 2, 301-304, **1996**.
33. "Efficient Synthesis of Aminonaphthoquinones and Azidobenzohydroquinones: Mechanistic Considerations of the Reaction of Hydrazoic Acid with Quinones. An Overview"
Couladouros, E. A.; Plyta, Z. F.; Haroutounian, S. A.; Papageorgiou, V. P.
J. Org. Chem., 62, 6-10, **1997**.
34. "Asymmetric Synthesis of Alkannin and Shikonin"
Couladouros, E. A.; Plyta, Z. F.; Strongilos, A. T.; Papageorgiou, V. P.
Tetrahedron Lett., 38, 7263-7266, **1997**.
35. "Total Synthesis of Combretastatins D"
Couladouros, E. A.; Soufli, I. C.; Moutsos, V. I.; Chadha, R. K.
Chem. Eur. J., 4, 33-43, **1998**.
36. "Derivatives of Aminoquinones with N-Protected Amino Acids"
Pachatouridis, C.; Couladouros, E. A.; Papageorgiou, V. P.; Liakopoulou-Kyriakides, M.
Lett. in Peptide Sci., 5, 259-262, **1998**.
37. "Inhibition of Topoisomerase I by Naphthoquinone Derivatives"
Plyta, Z. F.; Li, T.; Papageorgiou, V. P.; Mellidis, A. S.; Assimopoulou, A. N.; Pitsinos, E. N.; Couladouros, E. A.
Bioorg. Med. Chem. Lett., 8, 3385-3390, **1998**.
38. "The Chemistry and Biology of Alkannin, Shikonin and Related Naphthazarin Natural Products"
Papageorgiou, V. P.; Assimopoulou, A. N.; Couladouros, E. A.; Hepworth, D.; Nicolaou, K. C.
Angew. Chem. Int. Ed., 38, 270-300, **1999**.
39. "1,4-Reductive Addition of Hydrazoic Acid on γ -Keto- α,β -Unsaturated- δ -Lactones and Lactames: A Convenient Route to Enaminoketo δ -Lactones and Lactames"
Koulocheri, S. D.; Haroutounian, S. A.; Apostolopoulos, C. D.; Chada, R. K.; Couladouros, E. A.
Eur. J. Org. Chem., 1449-1453, **1999**.
40. "A General Synthetic Route Towards γ - and δ -Lactones. Total Asymmetric Synthesis of (-)-Muricatacin and the Mosquito Oviposition Pheromone (5*R*, 6*S*)-6-Acetoxy-hexadecanolide"
Couladouros, E. A.; Mihou, A. P.
Tetrahedron Lett., 40, 4861-4862, **1999**.
41. "A General Synthetic Route Towards Bastadins. Part 1: Synthesis of the Eastern Part of Bastadins 4-16"

- Couladouros, E. A.; Moutsos, V. I.
Tetrahedron Lett., **40**, 7023-7026, **1999**.
42. "A General Synthetic Route Towards Bastadins. Part 2: Synthesis of the Western Part of Bastadins 4-16, and Fully Functionalized Macrocyclic of Bastadin 12"
Couladouros, E. A.; Moutsos, V. I.
Tetrahedron Lett., **40**, 7027-7030, **1999**.
43. "Stabilization of Microtubules by Combretastatin D Derivatives"
Couladouros, E. A.; Li, T.; Moutsos, V. I.; Pitsinos, E. N.; Soufli, I. C.
Bioorg. Med. Chem. Lett., **9**, 2927-2928, **1999**.
44. "Biomimetic Explorations Towards the Bisorbicillinoids. Total Synthesis of Bisorbicillinol, Bisorbibutenolide and Trichodimerol."
Nicolaou, K. C.; Simonsen, K. B.; Vassilikogiannakis, G.; Baran, P. S.; Vidali, V. P.; Pitsinos, E. N.; Couladouros, E. A.
Angew. Chem. Int. Ed., **38**, 3555-3559, **1999**.
45. "Regioselective Oxidation of 3-Monosubstituted Juglone Derivatives"
Couladouros, E. A.; Strongilos, A. T.
Tetrahedron Lett., **41**, 535-538, **2000**.
46. "Biomimetic Total Synthesis of Bisorbicillinol, Bisorbibutenolide, Trichodimerol and Designed Analogues of Bisorbicillinoids."
Nicolaou, K. C.; Vassilikogiannakis, G.; Simonsen, K. B.; Baran, P. S.; Vidali, V. P.; Pitsinos, E. N.; Couladouros, E. A.
J. Am. Chem. Soc., **122**, 3071-3079, **2000**.
47. "Liquid Crystals from Combined Ionic and Hydrogen Bonding Interactions of Nucleobase Derivatives"
Tsiourvas, D.; Mihou, A. P.; Couladouros, E. A.; Paleos, C. M.
Molecular Crystals and Liquid Crystals, **363**, 177-184, **2001**.
48. "A New Efficient Route for Multigram Asymmetric Synthesis of Alkannin and Shikonin"
Couladouros, E. A.; Strongilos, A. T.; Papageorgiou, V. P.; Plyta, Z. F.
Chem. Eur. J., **8**, 1795-1803, **2002**.
49. "Synthesis of Hydroxylated Naphthoquinone Derivatives"
Couladouros, E. A.; Strongilos, A. T.
Eur. J. Org. Chem., 3341-3350, **2002**.
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92. Μοριακοί κρύσταλλοι ανθρακενίων για υλικά λιθογραφίας και οργανικά ηλεκτρονικά, με υψηλή αντίσταση στην εγχάραξη (Παρουσίαση Πόστερ)
B. Βιδάλη, A. Καπέλλα, Δ. Νιάκουλα, D. R. Gautam, M. Βασιλοπούλου, Π. Αργεΐτης, H. Κουλαδούρος
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95. Design strategy and synthesis of new anthracene- based, solution processable molecular glasses for photolithography and organic electronics (Poster presentation)
V. Vidali, A. Kapella, D. Niakoula, D. R. Gautam, M. Vassilopoulou, P. Argitis, E. Couladouros
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96. Design and synthesis of H1047R mutated PI3K α targeted inhibitors (Poster presentation)
Anna Kapella, Paraskevi Gkeka, Dimitris Stellas, Veroniki Vidali, Alexandra Papafotika, Savvas Christoforidis, Zoe Cournia, Elias Couladouros
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97. Self-Patterning, Solution-Processable Anthracene-Based Molecular Semiconductors: From Design to Application in Organic Devices (Poster presentation)
Veroniki P. Vidali, Maria Vasilopoulou, Dimitra Niakoula, Anna Kapella, Apostolos Verykios, Stella Kennou, Daman R. Gautam, Evangelos Gogolides, Elias A. Couladouros, Panagiotis Argitis
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98. An Improved Formal Synthesis of Abyssomicin C
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100. Abstract LB-262: Design, synthesis, and efficacy of MYC inhibitors in mouse pancreatic cancer
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