

ΗΛΙΑΣ Α. ΚΟΥΛΑΔΟΥΡΟΣ

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Ονοματεπώνυμο: Ηλίας Α. Κουλαδούρος
Ημερομ. Γεν.: 23 Σεπτεμβρίου 1956
Τόπος Γεν.: Αθήνα
Απασχ.: Καθηγητής Χημείας
Δ/ση εργασίας: 1. Εργαστήριο Χημείας, Γεωπονικό Πανεπιστήμιο Αθηνών, Ιερά Οδός 75, Αθήνα 118 55
2. Εργαστήριο Οργανικής και Βιοοργανικής Χημείας, Ινστιτούτο Φυτικοχημείας, Ε.Κ.Ε.Φ.Ε. "Δημόκριτος", Αγία Παρασκευή, Αττικής 602 28
Τηλ.: (210)-529 4245 (γραφείο & εργαστήριο, Γ.Π.Α.)
(210)-650 3654 (γραφείο Ε.Κ.Ε.Φ.Ε. "Δημόκριτος")
E-mail: ecoula@aua.gr & ecoula@rad-chem.com
URL: <http://www.aua.gr/~coulad>

ΣΠΟΥΔΕΣ

1988–1989 Μεταδιδακτορικό (post doctor), University of Pennsylvania, Καθ. K. C. Nicolaou
1984 Διδακτορικό Χημείας, Ανωτάτη Γεωπονική Σχολή Αθηνών, Καθ. Μ. Π. Γεωργιάδης (Άριστα)
1979 Πτυχίο Χημείας, Καποδιστριακό Πανεπιστήμιο Αθηνών (Λίαν καλώς)
Ξεν. Γλώσσες Αγγλικά (πολύ καλά)

ΕΙΔΙΚΕΥΣΗ

Οργανική Σύνθεση, Φυσικά Προϊόντα, Φαρμακοχημεία, Συνδυαστική Χημεία

ΠΡΟΫΠΗΡΕΣΙΑ

2015 – Συν-ιδρυτής και Επιστημονικός Σύμβουλος στην εταιρία pro-RaD pharma-chemicals P.C.
2006 – Συν-ιδρυτής και Επιστημονικός Σύμβουλος στην εταιρία pro-ACTINA S.A. "Προηγμένη Χημική Τεχνολογία"
2004 –2006 Ιδρυτής της εταιρίας pro-ACTINA LTD
1999 – σήμερα Καθηγητής, Γεωπονικό Πανεπιστήμιο Αθηνών, Εργαστήριο Χημείας
1997 – σήμερα Επισκέπτης Ερευνητής Ε.Κ.Ε.Φ.Ε. "Δημόκριτος" (Οργάνωση και λειτουργία του νέου εργαστηρίου Σύνθεσης Φυσικών Προϊόντων και Βιοοργανικής Χημείας)

1995 – 1999	Αναπληρωτής Καθηγητής, Γεωπονικό Πανεπιστήμιο Αθηνών, Εργαστήριο Χημείας
1993 – 1994	Επισκέπτης Ερευνητής, Scripps Research Institute, USA
1990 – 1995	Επίκουρος Καθηγητής, Γεωπονικό Πανεπιστήμιο Αθηνών, Εργαστήριο Χημείας
1990	Επισκέπτης Καθηγητής, University of California, San Diego, USA
1987 – 1990	Λέκτορας, Ανωτάτη Γεωπονική Σχολή Αθηνών
1988 – 1989	Research Associate (Post Doc.), University of Pennsylvania, USA
1984 – 1986	Ελληνικός Στρατός, Σώμα Υλικού Πολέμου
1980 – 1987	Επιστημονικός Συνεργάτης, Γεωπονικό Πανεπιστήμιο Αθηνών, Εργαστήριο Χημείας

ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΑΝΑΓΝΩΡΙΣΗ

Κριτής σε διεθ. επιστ. περιοδικά 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.

Προσκεκλημένος ομιλητής Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών, Πανεπιστήμιο Πατρών, Θεσσαλονίκης, Ιωαννίνων, Κρήτης, Ε.Κ.Ε.Φ.Ε. "Δημόκριτος", University of Leipzig, University of Dresden, University of Southampton

Μέλος επιστ. συλλόγων Μέλος της Ένωσης Ελλήνων Χημικών, Μέλος του American Chemical Society και των Organic, Medicinal & Carbohydrate Divisions, Εθνικός εκπρόσωπος και Αντιπρόεδρος του δικτύου Ευρωπαϊκών συνεργασιών στον τομέα της επιστημονικής και τεχνικής έρευνας COST D28 με τίτλο: "Natural products as a source for discovery, synthesis and application of new pharmaceuticals" Εθνικός εκπρόσωπος στη δράση του COST CM0804 με τίτλο: "Chemical biology with natural products"

ΕΡΕΥΝΗΤΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ

Ολική ασύμμετρη σύνθεση φυσικών προϊόντων:

- Διαρυλαιθέρεις (Bastadins, Combretastatins) με αντικαρκινική και αντιβιοτική δράση
- Αντιοξειδωτικές ναφθοκινόνες (Alkannin, Shikonin) με επουλωτική και αντιφλεγμονώδη δράση

- Στεροειδή (Adociasulfate-2) κυτταροτοξικοί εκλεκτικοί αναστολείς των κινεσινών
- Βιοδραστικές μακρολακτόνες (Radicicol, Resorcylide)
- Αναστολείς του καρκινικού νεκρωτικού παράγοντα-α (TNF-α) (Bisorbisillinoids)
- Μεθοδολογία σύνθεσης γ- και δ-λακτονών - Παρασκευή φερομονών εντόμων και του αντικαρκινικού παράγοντα (-)-Μουρικατασίνη

- Αντικαρκινικές δικετοπιπεραζίνες, (-)-Phenylahistine & (-)-Aurantiamine

Συνδυαστική Χημεία:

Σχεδιασμός, σύνθεση και αξιοποίηση βιοδραστικών παραγώγων φαρμακοφόρων δομών

- Σχεδιασμένες βιβλιοθήκες φαρμακοφόρων μορίων (αμινοσάκχαρα, αμινοκυκλιτόλες, ανθρακινόνες, πυράνια, οξαζολίνες)
- Αντικαρκινικές ενώσεις πολυμερισμού της τουμπουλίνης και πρωτότυπων παραγώγων τους (Phenylahistin, Taxol)

Νέα υλικά:

- Μικροκάψουλες για οικολογικό έλεγχο βλαβερών εντόμων
- Φωτοευαισθητοποιητές με εφαρμογές στη μικρολιθογραφία
- Υγροί κρύσταλλοι ως παράγωγα νουκλεϊκών οξέων

ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ

Ως Επιστημονικός Υπεύθυνος

- 1) ΠΑΒΕ '94, Χρηματοδότηση 29.250.000δρχ, Τίτλος: "Καταγραφή, Ανάλυση και Αξιοποίηση Δευτερογενών Μεταβολιτών Δομικά και Λειτουργικά Συγγενών της Ταξόλης. Έρευνες επί του *Taxus baccata* και άλλων Κωνοφόρων"
- 2) ΥΠΕΡ '94, Χρηματοδότηση 13.000.000δρχ, Τίτλος: "Συστήματα Μικροενκαψυλίωσης Πολυουρίας-Πολυουρεθάνης Ελεγχόμενης Αποδέσμευσης με Εφαρμογές στη Γεωργία"
- 3) ΕΠΕΤ II '98, Χρηματοδότηση 200.000.000δρχ, Τίτλος: "Ανάπτυξη και Αξιοποίηση Βιοτεχνολογικών Μεθόδων για την Παραγωγή Ταξόλης® και Συγγενών Μεταβολιτών"
- 4) ΠΑΒΕ '99, Χρηματοδότηση 66.450.000δρχ, Τίτλος: "Συνθετική Παρασκευή Εστέρων της Σικαλκίνης Κύριο Συστατικό του Φαρμακευτικού Σκευάσματος Helixderm"
- 5) ZeinCRO s.a. '00, Απευθείας χρηματοδότηση 4.400.000δρχ "Μοριακός Σχεδιασμός και Σύνθεση Βιολογικά Δραστικών Κινονών"
- 6) ΠΕΝΕΔ '01, Χρηματοδότηση 159.236,98€, Τίτλος: "Σύνθεση και Αξιολόγηση Βιοδραστικών Ναφθοκινονών και Άχρωμων Παραγώγων τους για Εφαρμογή σε Επουλωτικά Σκευάσματα"
- 7) Ελληνοπολωνική Συνεργασία '02, Χρηματοδότηση 4.200.000δρχ, Τίτλος: "Επίδραση, *in vitro* και *in vivo*, Συνθετικών Βασταδινών σε Ενδοκυττάριας Αποθήκες Ασβεστίου των Εγκεφαλικών Νευρώνων"
- 8) Ελληνοϊταλική Συνεργασία '03, Χρηματοδότηση 21.513€, Τίτλος: "Ταυτοποίηση και Μελέτη Θαλάσσιων Βιοτοξινών από Εκτρεφόμενα Οστρακοειδή"
- 9) Ελληνοκυπριακή συνεργασία '03, Χρηματοδότηση 11.153€, Τίτλος: "Ολική Σύνθεση β- και γ- τοκοτριενόλης"

- 10) ΠΡΑΞΕ '03 (Φάση Α), Χρηματοδότηση 44.000€, Τίτλος: "Μελέτη για την Παραγωγή και Εμπορία Προϊόντων Υψηλής Τεχνολογίας για τη Βιοτεχνολογική και Φαρμακευτική Έρευνα"
- 11) ΠΥΘΑΓΟΡΑΣ-ΕΠΕΑΕΚ II, Χρηματοδότηση 70.000€, Τίτλος: "Παρασκευή Βιοδραστικών-Ετεροκυκλικών Ενώσεων με Συνδυαστική Χημεία"
- 12) ΠΡΑΞΕ '06 (Φάση Β), Χρηματοδότηση 1.500.000€, Τίτλος: "Μελέτη για την Παραγωγή και Εμπορία Προϊόντων Υψηλής Τεχνολογίας για τη Βιοτεχνολογική και Φαρμακευτική Έρευνα"
- 13) ΗΡΑΚΛΕΙΤΟΣ II-ΕΠΕΑΕΚ
"Σχεδιασμός και σύνθεση βιοδραστικών αναλόγων της Υπερφορίνης , συστατικό του *Hypericum perforatum* με αντικαρκινική και αντικαταθλιπτική δράση" (45.000€)
- 14) "Μοριακοί βιοδείκτες ανταπόκρισης σε πολυδύναμες ενώσεις κυανινών με κινάζολίνες με συνδυασμένες απεικονιστικές και θεραπευτικές ιδιότητες" Ίδρυμα προώθησης έρευνας Κύπρου

Ως Συνεργαζόμενος Ερευνητής

- ΠΕΝΕΔ 1994, Χρηματοδότηση 13.000.000δρχ, Τίτλος: "Μικτόκλωνα Αστεροειδή Συμπολυμερή Στυρενίου-Ισοπρενίου του Τύπου ΑνΒν με τη Βοήθεια Πολυολών Καθορισμένης Γεωμετρίας"
- Επιτροπή έρευνας Γ.Π.Α. Χρηματοδότηση 2.000.000δρχ, Τίτλος: "Παράγωγα D-γλυκόλης ως Αναστολείς των Πρωτεασών Σερίνης: Σύνθεση, Αποτίμηση Βιολογικής Δραστηριότητας και Συσχετισμός Δομής-Δράσης"
- ESPRIT '99 Χρηματοδότηση 2,2 MECU, Τίτλος: "Resist 193/157"
- INTEL s.a. '03, '04, '05, Απευθείας χρηματοδότηση 100.000€, Τίτλος: "Polycarbocycles as etch resistants and dissolution promoters"
- ΣΥΝΕΡΓΑΣΙΑ ΕΣΠΑ 2007-2013, Χρηματοδότηση 79.000€, Τίτλος: Από μόρια-στόχους σε μόρια οδηγούς: Καινοτόμες φαρμακευτικές ουσίες για την Αρθρίτιδα
- ΣΥΝΕΡΓΑΣΙΑ ΕΣΠΑ 2007-2013, Χρηματοδότηση 143.000€, Τίτλος: "PIK3CA Oncogenic Mutations in Breast and Colon Cancers: Development of Targeted Anticancer Drugs and Diagnostics"
- ERA.Net RUS - Pilot Joint Call for Innovation Projects A. Linking Russia to the ERA: Coordination of MS/AC S&T programmes towards and with Russia, Χρηματοδότηση 406.800€, "Development of Novel Natural Product-based Imaging Probes for Early Diagnosis and Therapeutic Application in Multi-Drug Resistant Tumors"
- Marie Curie Industry-Academia Partnerships and Pathways (IAPP) Call: FP7-PEOPLE-2011-IAPP, Χρηματοδότηση 1.405.417 € "Management of Resistance to Tyrosine Kinase Inhibitors with Advanced Nanosystems"
- Συνεργασία 2011-Συμπράξεις Παραγωγικών και Ερευνητικών Φορέων σε Εστιασμένους Ερευνητικούς και Τεχνολογικούς Τομείς» (ΕΣΠΑ 2007-2013), "Phospholipases A₂ inhibitors: Developing a drug pipeline for the treatment of inflammatory neurological disorders"

Ερευνητικά Δίκτυα

- Δίκτυο συνεργασίας "Θεόφραστος" για την αξιοποίηση των φυσικών προϊόντων

- ❑ Εθνικός εκπρόσωπος του δικτύου COST D28, Τίτλος: "Natural Products as a Source for Discovery, Synthesis and Application of New Pharmaceuticals"
- ❑ Εθνικός εκπρόσωπος του δικτύου COST CM 0804, Τίτλος: «Chemical Biology with Natural Products»

ΕΡΕΥΝΗΤΙΚΗ ΟΜΑΔΑ

Επιστημονικός Υπεύθυνος 13 διδακτορικών διατριβών:

I. Σουφλή (1998), Ζ. Πλυτά (1998), Α. Μίχου (2001), Β. Μούτσος (2002),
Α. Στρογγυλός (2002), Β. Βιδάλη (2004), Α. Μιχαηλάκης (2006), Α. Μάγκος (2006),
Ε. Μπούζας (2007), Μ. Δακανάλη (2008), Μ. Λαμπροπούλου (2009), Κ. Μητσοπούλου
(2014), Α. Καπέλλα (2018)

Εν εξελίξει: Α. Τσάνκο

ΕΚΠΑΙΔΕΥΤΙΚΗ ΕΜΠΕΙΡΙΑ

- ❑ Διδασκαλία στο Μεταπτυχιακό Τμήμα "Μελέτη και Αξιοποίηση Φυσικών Προϊόντων" του Γενικού Τμήματος του Γ.Π.Α.
- ❑ Διδασκαλία στο Μεταπτυχιακό Τμήμα "Βιοτεχνολογία και Εφαρμογές στη Γεωπονία" του Τμήματος Γεωπονικής Βιοτεχνολογίας του Γ.Π.Α.
- ❑ Διδασκαλία Προχωρημένης Οργανικής Χημείας στο Μεταπτυχιακό Τμήμα "Φυσικά Προϊόντα και Βιοτεχνολογία" του Ινστιτούτου ΜΑΙΧ του Κέντρου Προχωρημένων Μεσογειακών Αγρονομικών Σπουδών (CIHEAM)
- ❑ Διδασκαλία Οργανικής Χημείας στο Μεταπτυχιακό Τμήμα του Ινστιτούτου Φυτικοχημείας του Ε.Κ.Ε.Φ.Ε. "Δημόκριτος"
- ❑ Διδασκαλία Συνθετικής Οργανικής Χημείας Ι (δημιουργία δεσμών C-C) στο Διατμηματικό Μεταπτυχιακό "Απομόνωση και Σύνθεση Φυσικών Προϊόντων με Βιολογική Δραστικότητα" στο Πανεπιστήμιο Κρήτης
- ❑ Διδασκαλία Συνθετικής Οργανικής Χημείας στο Πρόγραμμα Μεταπτυχιακών Σπουδών "Οργανική Σύνθεση και Εφαρμογές στη Χημική Βιομηχανία" του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών
- ❑ Φροντιστήριο Οργανικής Χημείας Μεταπτυχιακού Τμήματος Γαλακτοκομίας, Γ.Π.Α.

1980 – 1990	Εργαστήριο Ανόργανης Χημείας, Γ.Π.Α.
1980 – σήμερα	Εργαστήριο Οργανικής Χημείας, Γ.Π.Α.
1986 – σήμερα	Συνδιδασκαλία μαθήματος Οργανικής Χημείας, Γ.Π.Α.
1992 – σήμερα	Συνδιδασκαλία μαθήματος Αναλυτικής Χημείας, Γ.Π.Α.

ΑΝΤΙΠΡΟΣΩΠΕΥΤΙΚΕΣ ΕΡΓΑΣΙΕΣ

- Συμμετοχή στην ερευνητική ομάδα ολικής σύνθεσης **Ταξόλης**
- Συμμετοχή στην ερευνητική ομάδα ολικής σύνθεσης **Μπρεβετοξίνης Β**
- Ολική σύνθεση 45 φυσικών προϊόντων συμπεριλαμβανομένης της:
 1. Ολικής σύνθεσης Κομπρεταστατίνης D-1 και D-2

- 2. Ολικής σύνθεσης Αλκαννίνης και Σικονίνης
 - 3. Ολικής σύνθεσης Βασταδινών
 - Βιβλιοθήκες Πολυμορφικών Μορίων (Συνδυαστική Χημεία)
 - "Naptho-1,4-quinones"
- In *Science of Synthesis*, Georg Thieme Verlag, Stuttgart, NY, 28, 217-322, **2006** (Book chapter).

ΣΥΝΕΡΓΑΣΙΕΣ

- Γεωπονικό Πανεπιστήμιο Αθηνών (Μ. Πολυσίου, Π. Χατζόπουλος, Σ. Χαρουτουιάν)
- Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (Β. Παπαγεωργίου)
- Πανεπιστήμιο Αθηνών (Ν. Χατζηχρηστίδης, Β. Ρούσσης)
- Ινστιτούτο Φυτικοχημείας ΕΚΕΦΕ "Δημόκριτος" (Κ. Παλαιός)
- Ινστιτούτο Βιολογίας ΕΚΕΦΕ "Δημόκριτος" (Β. Μαζωμένος)
- Ινστιτούτο Μικροηλεκτρονικής ΕΚΕΦΕ "Δημόκριτος" (Π. Αργεΐτης)
- The Scripps Research Institute CA, USA, (Κ. C. Nicolaou)
- Universität Leipzig-Germany, (Α. Γιάννης)
- Polish Academy of Sciences (J. Lazarewitz)
- University of Naples (I. Fattorusso)

Εταιρείες: Unipharma s.a.-Κλέων Τσέτης
 Alchimica s.a.-Χ. Κριμίζης
 Π. Ν. Γερολυμάτος Α.Ε.Β.Ε.
 ZeinCRO Hellas s.a.
 YASOO ltd
 INTEL USA s.a.
 PHARMATHEN s.a.

ΔΗΜΟΣΙΕΥΣΕΙΣ - ΑΝΑΚΟΙΝΩΣΕΙΣ

94 επιστημονικές εργασίες.

13 διπλώματα ευρεσιτεχνίας.

102 συμμετοχές σε επιστημονικά συνέδρια.

1 διδακτικό βιβλίο.

Για τις εργασίες αυτές υπάρχουν περισσότερες από 3725 αναφορές άλλων επιστημόνων σύμφωνα με το ICI Web of Science (h-index= 25). Τέλος, πολλές από τις εργασίες αυτές περιλαμβάνονται σε βιβλία, επιστημονικές εκδόσεις και εγκυκλοπαίδειες.

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-[[(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-(2R)-2-hydroxymethyl-2H-pyran-3(6H)-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-2H-pyran-3(6H)-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 2H-Pyran-3(6H)-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.; Chrysai-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-2H-pyran and 5H-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-Benzylolation 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 Lactams: A Convenient Route to Enaminoketo δ -Lactones and Lactams"
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 (5R, 6S)-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**.
50. "Generation of Libraries of Pharmacophoric Structures with Increased Complexity and Diversity by Employing Polymorphic Scaffolds"
Couladouros, E. A.; Strongilos, A. T.
Angew. Chem. Inter. Ed., **41**, 3677-3680, **2002**.
51. "Synthetic Studies Towards Trichodimerol and Related Vertinoid Polyketides"
Pitsinos, E. N.; Vidali, V. P.; Couladouros, E. A.
ARKIVOC, (viii), 105-110, **2002**.
52. "Photoresist Etch Resistance Enhancement Using Novel Polycarbocyclic Derivatives as Additives"
Gogolides, E.; Argitis, P.; Couladouros, E. A.; Vidali, V. P.; Vasilopoulou, M.; Cordoyannis, G.; Diakoumakos, C. D.; Tserepi, A.
J. Vac. Sci. Technol. B, **21** (1), Jan/Feb 141-147, **2003**.
53. "Synthesis of o-Brominated Diaryl Ethers Using Symmetrical Iodonium Salts: Application to the Synthesis of Bastadin Precursors"

- Couladouros, E. A.; Moutsos, V. I.; Pitsinos, E. N.
ARKIVOC, (xv), 92-101, **2003**.
54. "Synthesis and Evaluation of Three Novel Scyphostatin Analogues as Neutral Sphingomyelinase Inhibitors"
 Pitsinos, E.; Wascholowski, V.; Karaliota, S.; Rigou, C.; Couladouros, E. A.; Giannis A.
ChemBioChem, 4(11), 1223-1225, **2003**.
 55. "First Total Synthesis of *trans*- and *cis*-Resorcylicide: Remarkable Hydrogen-Bond-Controlled, Stereospecific Ring Closing Metathesis"
 Couladouros E. A.; Mihou, A. P.; Bouzas E. A.,
Org. Lett., 6, 977-980, **2004**.
 56. "Novel Stereocontrolled Approach to syn- and anti-Oxepene-Cyclogeranyl trans-Fused Polycyclic Systems. Asymmetric Total Synthesis of (–)-Aplysistatin, (+)-Palisadin B, (+)-12-Hydroxy-Palisadin B and the AB Ring System of Adociasulfate-2 and Toxicol A"
 Couladouros, E. A.; Vidali, V. P.
Chem. Eur. J., 10(15), 3822-3835, **2004**.
 57. "A General Method for the Synthesis of Bastaranes and Isobastaranes. First Total Synthesis of Bastadins 5, 10, 12, 16, 20, and 21"
 Couladouros, E. A.; Pitsinos, E. N.; Moutsos, V. I.; Sarakinos, G.
Chem. Eur. J., 11, 406-421, **2005**.
 58. "Synthetic Studies Towards Oxazinines. An Expedient First Total Synthesis and Proof of the Absolute Stereochemistry of Oxazin-3"
 Couladouros, E. A.; Moutsos, V. I.; Pitsinos, E. N.
Tetrahedron Lett., 45(41), 7779-7781, **2004**.
 59. "Total Asymmetric Synthesis of (–)-Phenylahistine, (–)-Aurantiamine and Related Compounds. Part 1"
 Couladouros, E. A.; Magkos, A. D.
Mol. Diver., 9, 99-109, **2005**.
 60. "Solid Phase Total Synthesis of (–)-Phenylahistine and (–)-Aurantiamine. Synthesis of a Diverse Dehydro-2,5-diketopiperazine Library. Part 2"
 Couladouros, E. A.; Magkos, A. D.
Mol. Diver., 9, 111-121, **2005**.
 61. "Oviposition Responses of *Culex pipiens* to a Synthetic Racemic *Culex quinquefasciatus* Oviposition Aggregation Pheromone"
 Michaelakis, A.; Mihou, A. P.; Couladouros, E. A.; Zounos, A. K.; Koliopoulos, G.
J. Agric. Food Chem., 53, 5225-5229, **2005**.
 62. "Synthesis and Biological Evaluation of Novel Steroid-Modified Ether Phospholipids"
 Karantonis, H. C.; Couladouros, E. A.; Antonopoulou, S.; Pitsinos, M. N.; Demopoulos, C. A.
Chemistry and Physics of Lipids, 138, 12-19, **2005**.
 63. "Oxazinins from toxic mussels: isolation of a novel oxazin and reassignment of the C-2 configuration of oxazin-1 and -2 on the basis of synthetic models"
 Ciminiello, P.; Dell'Aversano, C.; Fattorusso, E.; Forino, M.; Magno, S.; Santelia, F. U.; Moutsos, V. I.; Pitsinos, E. N.; Couladouros, E. A.
Tetrahedron, 62, 7738-7743, **2006**.
 64. "Formal synthesis of Abyssomicin C"
 Couladouros, E. A.; Bouzas, E. A.; Magos, A. D.

Tetrahedron, 62, 5272-5279, **2006**.

65. "Naphtho-1,4-quinones"
Couladouros, E. A.; Strongilos, A. T.
In *Science of Synthesis*, Ed.: A. G. Griesbeck, Houben-Weyl Methods of Molecular Transformations, Georg Thieme Verlag, Stuttgart, NY, 28, 217-322, **2006** (Book chapter).
66. "Synthetic Bastadins Modify the Activity of Ryanodine Receptors in Cultured Cerebellar Granule Cells"
Zieminska, E.; Stafiej, A.; Pitsinos, E. N.; Couladouros, E. A.; Moutsos, V.; Kozłowska, H.; Toczyłowska, B.; Lazarewicz, J. W.
Neurosignals, 15, 283-292, **2006-07**.
67. "Prolonged Slow Release of (Z)-11-Hexadecenyl acetate Employing Polyurea Microcapsules"
Mihou, A. P.; Michaelakis, A.; Krokos, F. D.; Mazomenos, B. E.; Couladouros, E. A.
J. Appl. Entomol., 131, 128-133, **2007**.
68. "Attract-and-kill Strategy. Laboratory Studies on Hatched Larvae of *Culex pipiens*"
Michaelakis, A.; Mihou, A. P.; Koliopoulos, G.; Couladouros, E. A.
Pest Manag. Sci., 63, 954-959, **2007**.
69. "Stereostructural Determination by a Synthetic and NMR-Based Approach of Three Oxazinins Isolated from Adriatic Mussels"
Ciminiello, P.; Dell'Aversano, C.; Fattorusso, E.; Forino, M.; Grauso, L.; Santelia, F. U.; Tartaglione, L.; Moutsos, V. I.; Pitsinos, E. N.; Couladouros, E. A.
Eur. J. Org. Chem., 5434-5439, **2007**.
70. "A Short and Convenient Chemical Route to Optically Pure 2-Methyl Chromanmethanols. Total Asymmetric Synthesis of β -, γ -, and δ -Tocotrienols"
Couladouros, E. A.; Moutsos, V. I.; Lampropoulou, M.; Little, J. L.; Hyatt, J. A.
J. Org. Chem., 72, 6735-6741, **2007**.
71. "Formal synthesis of the piperidine alkaloid ($\pm$)-prosophylline using polymer-supported dihydro-2H-pyridin-3-one"
Couladouros, E. A.; Strongilos, A. T.; Neokosmidis, E.
Tetrahedron Lett., 48, 8227-8229, **2007**.
72. "Stochastic simulation studies of molecular resists"
Drygiannakis, D.; Patsis, G. P.; Raptis, I.; Niakoula, D.; Vidali, V.; Couladouros, E.; Argitis, P.; Gogolides, E.
Microelectron. Eng., 84, 1062-1065, **2007**.
73. "Open-chain half-bastadins mimic the effects of cyclic bastadins on calcium homeostasis in cultured neurons"
Zieminska, E.; Lazarewicz, J. W.; Couladouros, E. A.; Moutsos, V. I.; Pitsinos, E. N.
Bioorg. Med. Chem. Lett., 18, 5734-5737, **2008**.
74. "Larvicidal activity of naturally occurring naphthoquinones and derivatives against the West Nile virus vector *Culex pipiens*"
Michaelakis, A.; Strongilos, A. T.; Bouzas, E. A.; Koliopoulos, G.; Couladouros, E. A.
Parasitol. Res., 104, 657-662, **2009**.
75. "Influence of the microencapsulated pheromone from aged infusion as an oviposition medium of the West Nile virus vector *Culex pipiens*"
Michaelakis, A.; Mihou, A. P.; Koliopoulos, G.; Couladouros, E. A.
Parasitol. Res., 104, 1005-1009, **2009**.

76. "Insect pheromones: Classification methods"
Michaelakis, A.; Couladouros, E. A.; Strongilos, A. T.;
Chimika Chronika, General. Ed., 3, 20-24, **2009**.
77. "A Short Biomimetic Approach to the Fully Functionalized Bicyclic Framework of Type A Acylphloroglucinols"
Dakanali, M.; Demadis, K. D.; Vidali, V. P.; Couladouros, E. A.
Org.Lett., 11 (19), 4430-4433, **2009**.
78. "Materials for lithography in the nanoscale"
Argitis, P.; Niakoula, D.; Douvas, A. M.; Gogolidis, E.; Raptis, I; Vidali, V. P.; Couladouros, E. A.
Int. J. Nanotechnol., 6, 71-87, **2009**.
79. "Synthesis of novel benzoquinones with anti-inflammatory activity"
Sagnou, M.; Strongilos, A.; Hadjipavlou-Litina, D.; Couladouros, E. A.
Letters in Drug Design and Discovery, 6, 172-177, **2009**.
80. "Diaryl ether formation in the synthesis of Natural Products"
Pitsinos, E. N.; Vidali, V.; Couladouros, E. A.
Eur. J. Org. Chem., 7, 1207-1222, **2011**.
81. "Evaluation of naturally occurring curcuminoids and related compounds against mosquito larvae"
Sagnou, M.; Mitsopoulou, K. P.; Koliopoulos, G.; Pelecanou, M.; Couladouros, E. A; Michaelakis, A.;
Acta Tropica, 123 (3), 190-195, **2012**.
82. "An unusual Michael-induced skeletal rearrangement of a bicyclo[3.3.1]nonane framework of phloroglucinols to a novel bioactive bicyclo[3.3.0]octane"
Vidali, V. P.; Mitsopoulou, K. P.; Dakanali, M.; Demadis, K. D.; Odysseos, A. D.; Christou, Y. A.; Couladouros, E. A.
Org. Lett., 15(21), 5404-5407, **2013**.
83. "Bioefficacy of acyclic monoterpenes and their saturated derivatives against the West Nile vector *Culex pipiens*"
Michaelakis, A.; Vidali, V. P.; Papachristos, D. P.; Pitsinos, E. N.; Koliopoulos, G.; Couladouros, E. A.; Polissiou, M. G.; Kimbaris, A. C.
Chemosphere, 96, 74-80, **2014**.
84. "Hyperforin and deoxycohumulone as a larvicidal agent against culex pipiens (diptera: Culicidae)" Mitsopoulou, K. P.; Vidali, V. P.; Koliopoulos, G.; Couladouros, E. A.; Michaelakis, A.
Chemosphere, 100, 124-129, **2014**.
85. "Rationally designed less toxic spd-304 analogs and preliminary evaluation of their TNF inhibitory effects"
Alexiou, P.; Papakyriakou, A.; Ntougkos, E.; Papaneophytou, C. P.; Liepouri, F.; Mettou, A.; Katsoulis, I.; Maranti, A.; Tsiliouka, K.; Strongilos, A.; Chaitidou, S.; Douni, E.; Kontopidis, G.; Kollias, G.; Couladouros, E.; Eliopoulos, E.
Archiv der Pharmazie, 347, 798-805, **2014**.
86. "Isolation and structure elucidation of hyperibine J [revised structure of adhyperfirin (7-deprenyl-13-methylhyperforin)]: Synthesis of hyperibone J"
Mitsopoulou, K.P.; Vidali, V.P.; Maranti, A.; Couladouros, E.A.
Eur. J. Org. Chem., 2, 287-290, **2015**.

87. "Synthesis and biological evaluation of potential small molecule inhibitors of tumor necrosis factor"
Papaneophytou, C. , Alexiou, P., Papakyriakou, A., Ntougkos, E., Tsiliouka, K., Maranti, A., Liepouri, F. , Strongilos, A., Mettou, A. , Couladouros, E. , Eliopoulos, E. , Douni, E., Kollias, G. , Kontopidis, G.
MedChemComm, 6(6), 1196-1209, **2015**.
88. "Interferon lambda1/IL-29 and inorganic polyphosphate are novel regulators of neutrophil-driven thromboinflammation"
Chrysanthopoulou, A. , Kambas, K. , Stakos, D. , Mitroulis, I. , Mitsios, A. , Vidali, V. , Angelidou, I. , Bochenek, M. , Arelaki, S. , Arampatzioglou, A. , Galani, I.-E. , Skendros, P. , Couladouros, E.A. , Konstantinides, S. , Andreakos, E. , Schäfer, K. , Ritis, K.
Journal of Pathology, 243, 1, 111-122, **2017**.
89. "Aqueous Solubility Enhancement for Bioassays of Insoluble Inhibitors and QSPR Analysis: A TNF- α Study"
Mettou, A., Papaneophytou, C., Melagraki, G. , Maranti, A., Liepouri, F., Alexiou, P., Papakyriakou, A., Couladouros, E., Eliopoulos, E., Afantitis, A., Kontopidis, G.
SLAS Discovery, 23, 1, 84-93, **2018**.
90. "An Improved Biomimetic Formal Synthesis of Abyssomicin C and atrop-Abyssomicin C" Vidali, V. , Canko, A., Peroulas, A. D., Georgas, E. T., Bouzas. E., Herniman, J. M., Couladouros, E.A.
European Journal of Organic Chemistry, 29, 4547-4557, **2020**.
91. "Discovery of Small-Molecule Inhibitors of Receptor Activator of NF- κ B Ligand (RANKL)"
Vagelis Rinotas, Athanasios Papakyriakou, Foteini Violitzi, Christos Papaneophytou, Maria-Dimitra Ouzouni, Polyxeni Alexiou, Alexandros Strongilos, Elias Couladouros, George Kontopidis, Elias Eliopoulos, Eleni Douni
Journal of Medicinal Chemistry, 63(20), 12043-12059, **2020**.
92. "A DFT Study towards the Amide *cis-trans* Isomerization Process of the Myc-Max Inhibitor Mycro 3 and Its Photophysical Properties; Synthesis and NMR Studies of the *trans*-Conformation"
Mamalis, D., Panagiotopoulou, A., Couladouros, E.A., Tzeli, D., Vidali, V.P.
ChemistrySelect, 7(25), e202201639, **2022**.
93. "Structure-Based Discovery of Receptor Activator of Nuclear Factor- κ B Ligand (RANKL)-Induced Osteoclastogenesis Inhibitors"
Vagelis Rinotas, Fotini Liepouri, Maria-Dimitra Ouzouni, Niki Chalkidi, Christos Papaneophytou, Mariza Lampropoulou, Veroniki P. Vidali, George Kontopidis, Elias Couladouros, Elias Eliopoulos, Athanasios Papakyriakou *, Eleni Douni *
Int. J. Mol. Sci., 24(14), 11290, **2023**.
94. "First total synthesis of type II abyssomicins: ($\pm$)-abyssomicin 2 and ($\pm$)-neoabyssomicin B"
Canko, A., Athanassopoulou, G.D., Psycharis, V., Raptopoulou, C.P., Herniman, J.M., Mouchtouris, V., Foscolos, A.S., Couladouros, E.A., Vidali, V.P.

Διπλώματα ευρεσιτεχνίας

1. Taxoid Synthesis. Convergent Synthesis of Systems of Intact Ring Framework of Taxol by Providing Activated Mono- and Bicyclic Ring Intermediates.
C. F. Claiborne, E. A. Couladouros, P. G. Nantermet, K. C. Nicolaou, E. J. Sorensen, US Patent 5,481,007, p. 14, **1996**.
2. Taxoid Synthesis. Taxoids Having Aromatic Ring; Water Soluble Derivatives.
C. F. Claiborne, E. A. Couladouros, P. G. Nantermet, K. C. Nicolaou, E. J. Sorensen, US Patent 576 0240, p. 14, **1998**.
3. Polycarbocyclic Derivatives for Modification of Resist, Optical and Etch Resistance Properties.
Gogolides, E.; Argitis, P.; Vidali, V. P.; Vasilopoulou, M. A.; Cordoyiannis, G.; Diakoumakos, C. D.; Tserepi, A.; Couladouros, E. A.
Greek Patent, 20010100506, p. 24, **2001**.
4. Polycarbocyclic Derivatives for Modification of Resist, Optical and Etch Resistance Properties.
Gogolides, E.; Argitis, P.; Vidali, V. P.; Vasilopoulou, M. A.; Cordoyiannis, G.; Diakoumakos, C. D.; Tserepi, A.; Couladouros, E. A.
EU Patent, 200100987, p. 26, **2001**.
5. Methods of Preparation of Dehydro-diketopiperazines.
Couladouros, E. A.; Magkos, A. D., Strongilos A. T.
Greek Patent, 20030100287, p. 18, **2003**.
6. Methods of Preparation of Dehydro-diketopiperazines.
Couladouros, E. A.; Magkos, A. D., Strongilos A. T.
PCT Patent, WO2005/003102 (13-01-2005), **2005**.
7. Preparation and Applications of Polymer Supported Halogenated Benzoquinones as Oxidative Agents.
Couladouros, E. A.; Strongilos, A. T.
PCT Patent, WO2005/121077 (22-12-2005), **2005**.
8. Process for synthesizing d-Tocotrienols.
Couladouros, E. A.; Papas, A.; Moutsos, V.; Lampropoulou, M.
PCT Patent, WO 2005/035490, **2005**.
9. Process for synthesizing d-Tocotrienols from 2-vinylchromane compound.
Couladouros, E.; Papas, A.; Moutsos, V.; Lampropoulou, M.
PCT Patent, WO 2005/035491, **2005**.
10. Slow release process of volatile organic molecules employing polyurea microcapsules.
Couladouros, E.; Mihou, A.; Michaelakis, A.; Koliopoulos, G.
PCT Patent, 20050100488, **2005**.
11. Molecular Resists based on Functionalized Polycarbocycles.
Argitis, P.; Gogolides, E.; Couladouros, E. A.; Niakoula, D.; Vidali, V.; Gautam, D. R.
PCT Patent, WO 2007/031803, **2007**.

12. Method of preparation and use of phosphoinositide 3-kinase inhibitors in treating cancer, Z. Cournia, S Christoforidis, A Kapella, E. Couladouros, A Efstratiadis, OBI Patent Application number 20180100392, **2018**.
13. Method of preparation and use of phosphoinositide 3-kinase inhibitors in treating cancer, Z. Cournia, S Christoforidis, A Kapella, E. Couladouros, A Efstratiadis, International Patent Application 69028P WO/BBja (Based on GR 2018-02981, 24-08-2018), **2019**.

Ανακοινώσεις σε συνέδρια

1. Products from Furans: Antimicrobial Properties, Crystal and Molecular Structure ¹H NMR and Conformation Studies of 2-Methyl-2-aryl-substituted 6-Hydroxy-2H-pyran-3(6H)-one Derivatives
Georgiadis, M. P.; Couladouros, E. A.; Polissiou, M. G.; Filippakis, S. E.; Mentzafos, D.; Terzis, A.
1st Panhellenic Symposium on Medicinal Chemistry, Athens, **1981**.
2. NMR Studies, Molecular Structure and Synthetic Possibilities of 6-Hydroxy-2H-pyran-3(6H)-ones
Georgiadis, M. P.; Couladouros, E. A.
Balkan Chemistry Days, Varna, Bulgaria, **1983**.
3. Selective Oxidation of the Furan Ring in the Presence of Sulfur Group Using N-Bromosuccinimide
Couladouros, E. A.; Georgiadis, M. P.
Balkan Chemistry Days, Varna, Bulgaria, **1983**.
4. Synthesis of 1-Acyloxy-deoxy-aminosugars via 6-Hydroxy-2H-pyran-3(6H)-ones. Versatile Intermediates for the Synthesis of Aminocyclitol Antibiotics
Couladouros, E. A.; Georgiadis, M. P.
2nd Cyprus Conference on New Methods in Drug Research, Limassol, Cyprus, **1985**.
5. Products from Furans: Synthetic Possibilities of 6-Hydroxy-2H-pyran-3(6H)-ones Toward the Synthesis of Biologically Interesting Compounds
Georgiadis, M. P.; Haroutounian, S. A.; Couladouros, E. A.
IX International Symposium on Medicinal Chemistry, Berlin(W), **1986**.
6. Michael Addition of Amino Acids to 2H-Pyran-3(6H)-ones. A Route to N-(Methyl-2,3-dideoxyhexopyranoside-2-yl)amino Acids and Derivatives
Apostolopoulos, C.; Couladouros, E. A.; Georgiadis, M.
Xth International Symposium on Medicinal Chemistry, Budapest, Hungary, **1988**.
7. Total Synthesis of 3-Deoxy-prumycin from 2H-Pyran-3(6H)-one
Constantinou, V. N.; Couladouros, E. A.; Georgiadis, M. P.; Kokotos, G. C.
Xth International Symposium on Medicinal Chemistry, Budapest, Hungary, **1988**.
8. Progress Towards the Total Synthesis of Brevetoxin A and B
Nicolaou, K. C.; Hwang, C.-K.; Nugiel, D. A.; Couladouros, E. A.; Prasad, C. V. C.; Reddy, D. R.; Hark, R.; Yiannikouros, G.
Int. Chem. Cong. of Pacific Basin Soc., Honolulu, **1989**.
9. A Facile Synthesis of Norepinephrine Derivatives via 2H-Pyran-3(6H)-ones
Georgiadis, M. P.; Apostolopoulos, C. D.; Couladouros, E. A.; Haroutounian, S. A.;

- Chondros, K. P.
XI Int. Symp. on Medicinal Chem., Jerusalem, **1990**.
10. Synthesis and Conformational Studies of 2,4-Diamino Sugar Precursors
 Constandinou, V. N.; Couladouros, E. A.; Georgiadis, M. P.; Kokotos, G. C.
XI Int. Symp. on Medicinal Chem., Jerusalem, **1990**.
 11. Amino Acid and Peptide Analogues of 3-Deoxy-DL-prumycin: Synthesis and Antifungal Activity
 Kokotos, G.; Constantinou-Kokotou, V.; Chrysayi-Tokousbalides, M.; Couladouros, E. A.; Georgiadis, M. P.
"Peptides 1990" (E. Giralt and D. Andreu, eds), **1991**.
 12. Synthetic Approaches Towards the Synthesis of Combretastatins
 Soufli, I.; Couladouros, E. A.
6th Hellenic Symposium on Medicinal Chemistry, Athens, **1993**.
 13. Synthesis of Pharmacological Interesting Naphthazarin Analogs
 Plyta, Z.; Couladouros, E. A.; Papageorgiou, V. P. *Athens*,
6th Hellenic Symposium on Medicinal Chemistry, **1993**.
 14. Direct Synthesis of β -Enamino-carbonyl Derivatives via Azide Addition to 1,4-Dicarbonyl Unsaturated Compounds
 Apostolopoulos, C. D.; Plyta, Z.; Haroutounian, S. A.; Couladouros, E. A.; Chadha, R.
15th Hellenic Chemistry Conference, Thessaloniki, **1994**.
 15. Derivatives of 4-Styrylpyridines: Synthesis and Evaluation of Photophysical Properties and Biologic Activity (RBA properties)
 Apostolopoulos, C. D.; Couladouros, E. A.; Haroutounian, S.
15th Hellenic Chemistry Conference, Thessaloniki, **1994**.
 16. The Total Synthesis of Taxol
 Nicolaou, K. C.; Guy, R. K.; Yang, Z.; Nantermet, P. G.; Liu, J.-J.; Ueno, H.; Sorensen, E. J.; Claiborne, C. F.; Couladouros, E. A.; Renaud, J.; Nakada, M.; Paulvannan, K.; Shibayama, K.; Hwang, C.-K.
4th Conference in Advanced Medicinal Chemistry, Thessaloniki, **1995**.
 17. Addition of HN₃ to Quinoide Systems. Synthesis of Dephostatin
 Plyta, Z. F.; Couladouros, E. A.; Papageorgiou, V. P.
7th Hellenic Symposium on Medicinal Chemistry, Athens, **1995**.
 18. Methodologies for the Synthesis of Caffrane Rings. Total Asymmetric Synthesis of Combretastatin D-1
 Couladouros, E. A.; Soufli, I. C.
16th Hellenic Chemistry Conference, Athens, **1995**.
 19. Methodologies for the Synthesis of γ - and δ - Lactones with Biological Interest
 Mihou, A. P.; Couladouros, E. A.
8th Hellenic Symposium on Medicinal Chemistry, Athens, **1997**.
 20. Total Synthesis of Bastadins. Synthetic Approaches
 Moutsos, V. I.; Couladouros, E. A.
8th Hellenic Symposium on Medicinal Chemistry, Athens, **1997**.
 21. Studies on the Greek *Taxus Baccata*
 Papadogianni, K. A.; Moutsos, V. I.; Vagias, K.; Couladouros, E. A.; Roussis, V.
8th Hellenic Symposium on Medicinal Chemistry, Athens, **1997**.

22. Total Asymmetric Synthesis of the Active Ingredient of the Wound Healing Ointment "Helixderm"
Plyta, Z. F.; Strongilos, A. T.; Papageorgiou, V. P.; Couladouros, E. A.
2nd Conference on Chemical Research and Industry, Athens, 1997.
23. General Approach for the Synthesis of Caffrane Rings. Total Asymmetric Synthesis of Combretastatin D-1
Couladouros, E. A.; Soufli, I. C.
Chimica Chronica Congress, 26(2), 74, 1997.
24. The Use of Polyureas/Polyurethanes in Slow Release Processes
Couladouros, E. A.
European Intensive Course on New Forms and New Routes of Administration for Drugs, Athens, 1998.
25. New Synthetic Approaches Towards Shikonin and Alkanin
Plyta, Z. F.; Strongilos, A. T.; Papageorgiou, V. P.; Couladouros, E. A.
1st International Conference of the Chemical Societies of the South-East European Countries, Halkidiki, Greece, 1998.
26. A New, General and Convenient Method for the Asymmetric Synthesis of Substituted γ - and δ - Lactones
Mihou, A. P.; Couladouros, E. A.
1st International Conference of the Chemical Societies of the South-East European Countries, Halkidiki, Greece, 1998.
27. Synthetic Studies Towards the Construction of the Caged Skeleton of BMS-182123
Pitsinos, E.; Vidali, V. P.; Couladouros, E. A.
1st International Conference of the Chemical Societies of the South-East European Countries, Halkidiki, Greece, 1998.
28. Natural Products: Synthetic Strategies, Modifications and Development
Couladouros, E. A.
1st International Conference of the Chemical Societies of the South-East European Countries, Halkidiki, Greece, 1998.
29. Workshop on Health and Pharmaceuticals
Tsiganos, C.; Tsiftoglou, A.; Couladouros, E. A.; Sakarellos, C.; Pejanovic, V.
1st International Conference of the Chemical Societies of the South-East European Countries, Halkidiki, Greece, 1998.
30. Methodologies for the Synthesis of γ - and δ -Lactones – Microencapsulation and Slow Release
Mihou, A. P.; Couladouros, E. A.
5th Postgraduate Conference in Chemistry, University of Crete, Kolimpari, 1999.
31. Natural Products - Total Synthesis, Designed Derivatives, Biological Studies
Couladouros, E. A.
Biodiversity and the Effects on Health and Nutrition, Kifisia, December 2001.
32. Diaryl Iodonium Salts in the Synthesis of Natural Products. A General Synthetic Route towards Bastadins
Couladouros E. A.; Moutsos V. I.; Pitsinos E. N.
1st International Conference on Hypervalent Iodine, Halkidiki, 12-14 September 2001.

33. The Use of Hypervalent Iodine Reagents for the Synthesis of *p*-Naphthoquinone Derivatives
Strongilos, A.; Couladouros, E. A.
1st International Conference on Hypervalent Iodine, Halkidiki, 12-14 September **2001**.
34. Drug Production from Natural Products
Michaelakis, A.; Couladouros, E. A.
New Facts: Nutrition -Drugs, Athens, May **2001**.
35. Synthetic Approaches towards Radicicol
Bouzas, E.; Mihou, A.; Couladouros, E. A.
8th Postgraduate Conference in Chemistry, University of Crete, Anogia, June **2002**.
36. Synthesis of Antibiotics, which Exhibit Selective Binding to the RNA, with Combinatorial Chemistry
Magos, A.; Couladouros, E. A.
8th Postgraduate Conference in Chemistry, University of Crete, Anogia, June **2002**.
37. Synthetic Approaches Towards Radicicol
Bouzas, E.; Mihou, A.; Couladouros, E. A.
Ischia Advanced School of Organic Chemistry - IASOC 2002, Ischia Italy, September **2002**.
38. Synthesis of Pharmacophore Scaffolds and Natural Products Analogs on Solid Phase
Magos, A.; Strongilos, A.; Couladouros, E. A.
Ischia Advanced School of Organic Chemistry - IASOC 2002, Ischia Italy, September **2002**.
39. Studies Towards the Synthesis of Adociasulfate-2
Vidali, V.; Couladouros, E. A.
Ischia Advanced School of Organic Chemistry - IASOC 2002, Ischia Italy, September **2002**.
40. Synthetic Studies Towards Bastadins: First Total Synthesis of Bastadin 12
Moutsos, V.; Pitsinos, E.; Couladouros, E. A.
Ischia Advanced School of Organic Chemistry - IASOC 2002, Ischia Italy, September **2002**.
41. Solution and Solid Phase Synthesis of Inhibitors of the Protein Synthesis using Combinatorial Chemistry
Magos, A.; Couladouros, E. A.
19th Pan-Chemistry Conference: Hellenic Conference on Chemistry: The Many Faces of Chemistry and its Applications, University of Crete, Heraklion, November, **2002**.
42. (-)-Phenylahistin: Synthetic Approach of an Inhibitor of the Microtubuline Polymerization
Magos, A.; Strongilos, A.; Couladouros, E. A.
19th Pan-Chemistry Conference: Hellenic Conference on Chemistry: The Many Faces of Chemistry and its Applications, University of Crete, Heraklion, November, **2002**.
43. Application of the Carbonylative Stille Cross-Coupling Reaction in the Attempt of Synthesis of Radicicol
Bouzas, E.; Mihou, A.; Couladouros, E. A.

- 19th Pan-Chemistry Conference: Hellenic Conference on Chemistry: The Many Faces of Chemistry and its Applications*, University of Crete, Heraklion, November, **2002**.
44. Application of Olefin Metathesis and Cationic Cyclization in the Synthesis of Adociasulfate-2
Vidali, V.; Couladouros, E. A.
19th Pan-Chemistry Conference: Hellenic Conference on Chemistry: The Many Faces of Chemistry and its Applications, University of Crete, Heraklion, November, **2002**.
45. Synthesis and evaluation of Biological Activity of two new Steroid Derivatives of Ether Phospholipids
Pitsinos, E. N.; Couladouros, E. A., Karantonis, C. K.; Demopoulos, K. A.
19th Pan-Chemistry Conference: Hellenic Conference on Chemistry: The Many Faces of Chemistry and its Applications, University of Crete, Heraklion, November, **2002**.
46. Polymorphic Applications of Synthetic Organic Chemistry
Couladouros, E. A.
19th Pan-Chemistry Conference: Hellenic Conference on Chemistry: The Many Faces of Chemistry and its Applications, University of Crete, Heraklion, November, **2002**.
47. Synthesis and Exploitation of Natural Products
Couladouros, E. A.
Basic and Applied Chemical Research, University of Ioannina, 22-24 October **2002**.
48. The Role of Synthetic Organic Chemistry in the Development of New Drugs
Couladouros, E. A.
8th Postgraduate Conference in Chemistry, University of Crete, Anogia, June **2003**.
49. Synthetic Organic Chemistry Applications for the Discovery of New Drugs
Couladouros, E. A.
4th COST Conference on Natural Products, University of Crete, October **2003**.
50. The development of an alternative control method for *Culex pipiens* (Diptera: Culicidae). A. Zounos, A. Michaelakis, A. P. Mihou, G. Koliopoulos, and E. A. Couladouros.
10th Pan-Hellenic Symposium on Entomology, Heraklio Crete, 4–7 November **2003**.
51. General Methodology for the Synthesis of Resorcylic Macrolides using Ring Closing Metathesis. Application to the Syntheses of *trans*-Resorcylic, *cis*-Resorcylic and Radicicol.
E. A. Bouzas, A. P. Mihou, E. A. Couladouros
1st Hellenic Symposium of Organic Synthesis from chemistry to biology, to medicine and material science, National Kapodistrian University of Athens, 4-6 November, **2004**
52. Solid phase asymmetric total synthesis of (–)-Phenylhistine and (–)-Aurantiamine. A new, general and efficient strategy for the construction of dehydro-(2,5)-diketopiperazine libraries.
A. D. Magos, E. A. Couladouros
1st Hellenic Symposium of Organic Synthesis from chemistry to biology, to medicine

- and material science*, National Kapodistrian University of Athens, 4-6 November, **2004**
53. Efficacy studies for the substance Shikonin as larvicidal *Culex pipiens* (Diptera: Culicidae)
A. Michaelakis, G. Koliopoulos, V. Kalatzopoulos, E. Vlahopoulos and E. A. Couladouros.
8th Symposium on Chemistry Greece-Cyprus. Thessalonica, 10–13 December **2004**.
 54. Studies Towards the Total Synthesis of Oxazin-1,-2 and -3
Couladouros, E. A.; Moutsos, V. I.; Pitsinos, E. N.
11th International Symposium on Marine Natural Products, Sorento, Italy, September 2004.
 55. A General Synthetic Route Towards Bastaranes and Isobastaranes. First Total Synthesis of Bastadins 10, 12, 19 and 21
Couladouros, E. A.; Moutsos, V. I.; Pitsinos, E. N.
11th International Symposium on Marine Natural Products, Sorento, Italy, September 2004.
 56. Synthesis of Natural Products Using Ring Closing Metathesis
Couladouros, E. A.
1st Hellenic Symposium, Organic Synthesis - From Chemistry to Biology, Medicine and Materials Science, Athens, November 2004.
 57. Cyclization Studies of Hydroxy-epoxides for the preparation of 6,6- and 6,5-Cyclogeranyl Ring systems
Platanaki, G; Vidali, V. P.; Couladouros, E. A.
1st Hellenic Symposium, Organic Synthesis - From Chemistry to Biology, Medicine and Materials Science, Athens, November 2004.
 58. A New Efficient Methodology for the Preparation of Sterically Hindered Cyclogeranyl Oxepenes. Application to the Synthesis of the AB Ring System of Adociasulfate-2 and Toxicol A and to the Total Asymmetric Synthesis of (–)-Aplysistatin, (+)-Palisadin A, (+)-Palisadin B and (+)-12-Hydroxy-Palisadin B
Platanaki, G; Vidali, V. P.; Couladouros, E. A.
1st Hellenic Symposium, Organic Synthesis - From Chemistry to Biology, Medicine and Materials Science, Athens, November 2004.
 59. Ecological studies of several organic compounds for *Culex pipiens*
V. Kalatzopoulos, E. Vlahopoulos, E. A. Couladouros, A. Michaelakis, and G. Koliopoulos
11th Pan-Hellenic Symposium on Entomology, Karditsa, 11-14 October 2005.
 60. Synthesis of β - and γ -Tocotrienols
Lampropoulou, M. K.; Moutsos, V. I.; Couladouros, E. A.
11th Postgraduate Conference in Chemistry, University of Crete, Kolibari, July 2005.
 61. Generation of Libraries of Azapyranones by Employing Polymorphic Scaffolds
Neokosmidis, E.; Strongilos, A.; Couladouros, E. A.; Haroutounian, S.; Tzanetou, E.
11th Postgraduate Conference in Chemistry, University of Crete, Kolibari, July 2005.
 62. Studies on the Encapsulation and the Slow Release of Pheromones by Employing Oil-containing Polyurea Microcapsules
Michaelakis, A.; Mihou, A. P.; Koliopoulos, G.; Krokos, F.; Mazomenos, B.; Couladouros, E. A.

- 1st Pan-Hellenic Symposium on Biotechnology and Food Technology, Athens, April 2005.*
63. Polycarbocycle-based molecular resists for EUV lithography
Niakoula, D.; Argitis, P.; Raptis, I.; Gogolides, E.; Vidali, V. P.; Couladouros, E. A.; Gautam, D. R.; Yueh, W.; Roberts, J.; Meagley, R.
Int. Sematech EUVL symposium, San Diego, USA, November 2005.
 64. Molecular resists based on novel polycarbocycle derivatives
Niakoula, D.; Argitis, P.; Raptis, I.; Gogolides, E.; Vidali, V. P.; Couladouros, E. A.; Gautam, D. R.; Yueh, W.; Roberts, J.; Meagley, R.
Micro- and Nano Engineering Conference 2005, Vienna, Austria, 20-22 September 2005. (invited poster)
 65. Studies on the Encapsulation and the Slow Release of Pheromones by Employing Oil-containing Polyurea Microcapsules
Michaelakis, A.; Mihou, A. P.; Koliopoulos, G.; Krokos, F.; Mazomenos, B.; Couladouros, E. A.
1st Pan-Hellenic Symposium on Biotechnology and Food Technology, Athens, April 2005.
 66. Larvicidal Activity of Shikonin, Alkannin and one derivative of Shikonin Against *Culex pipiens*
Michaelakis, A.; Zimheris, G.; Koliopoulos, G.; Kioulos, E.; Couladouros, E. A.
11th Pan-Hellenic Symposium on Entomology, Karditsa, 11-14 October 2005.
 67. Slow Release of *Culex quinquefasciatus* Oviposition Aggregation Pheromone Employing Polyurea Microcapsules
Michaelakis, A.; Mihou, A. P.; Koliopoulos, G.; Couladouros, E. A.
11th Pan-Hellenic Symposium on Entomology, Karditsa, 11-14 October 2005.
 68. Essential Oils of *Satureja* Species: Insecticidal Effect on *Culex pipiens* Larvae
Michaelakis, A.; Couladouros, E. A.; Koliopoulos, G.; Kioulos, E.; Chorianopoulos, N.; Nychas, G.-J.; and Haroutounian, S.
11th Pan-Hellenic Symposium on Entomology, Karditsa, 11-14 October 2005.
 69. New routes towards the synthesis of natural products and designed derivatives.
E. A. Couladouros, A. Strongilos, V. Vidali, A. D. Magos, E. Bouzas, E. Neokosmidis, V. Moutsos, M. Lampropoulou, M. Dakanali
International Symposium on Chemistry, Biology and Medicine, Cyprus, 28 May – 1 June, 2006.
 70. Evaluation of the synthetic racemic oviposition pheromone of *Culex quinquefasciatus* and the use of its microencapsulated form in the “attract and kill” strategy.
A. Michaelakis, E. A. Couladouros, A. P. Mihou and G. Koliopoulos.
15th European Society for Vector Ecology (SOVE) Meeting. Serres, Greece, 10–14 April 2006.
 71. From a Polymorphic Scaffold to a Pharmacophoric Library of Natural Products and analogous
Magos, A. D.; Strongilos, A. T.; Couladouros, E. A.
12th Pan-Hellenic Symposium of Pharmacochimistry, Patras, 27-28 January 2006.
 72. Solid Phase Synthesis of Intermediates for the Preparation of Azasacharrides and Piperidinic Alkaloids
Neokosmidis, E. A.; Strongilos, A. T.; Couladouros, E. A.

- 12th Pan-Hellenic Symposium of Pharmacochemistry, Patras, 27-28 January 2006.
73. Synthesis and in vitro Activity of Shikalkin Derivatives
Pratsinis, H.; Kletsas, D.; Bouzas, E. A.; Michaelakis, A.; Strongilos, A. T.; Couladouros, E. A.
8th International Symposium on Medical Chemistry – Design and Development of Medicinal Products, Patras, 15-17 March 2007.
74. Development of a General Method for the Synthesis of Polyprenylated Acylphloroglucinols
Dakanali, M. I.; Vidali, V. P.; Couladouros, E. A.
8th International Symposium on Medical Chemistry – Design and Development of Medicinal Products, Patras, 15-17 March 2007.
75. Studies of Enone – Ene Ring Closing Metathesis. Total Synthesis of Monocillin II
Maranti, A. G.; Bouzas, E. A.; Couladouros, E. A.
8th International Symposium on Medical Chemistry – Design and Development of Medicinal Products, Patras, 15-17 March 2007.
76. Chemical Synthesis of Bioactive Natural Products; Early Steps in the Discovery of New Drugs
Couladouros, E. A.
8th International Symposium on Medical Chemistry – Design and Development of Medicinal Products, Patras, 15-17 March 2007.
77. Synthesis of the Bicyclic Common Core of Hyperforin and Related Polycyclic Polyprenylated Acylphloroglucinols
Dakanali, M. I.; Vidali, V. P.; Couladouros, E. A.
2nd Hellenic Symposium of Organic Synthesis – From Chemistry to Biology, Medicine and Material Science, Athens, 19-21 April 2007.
78. Synthetic Studies Towards Monocillins I, II & III
Maranti, A. G.; Bouzas, E. A.; Couladouros, E. A.
2nd Hellenic Symposium of Organic Synthesis – From Chemistry to Biology, Medicine and Material Science, Athens, 19-21 April 2007.
79. Studies Towards an Improved Synthesis of the New Anti-MRSA & VRSA Polyketide Abyssomicin C
Bouzas, E. A.; Magos, A. D.; Chiotellis, A. E.; Salama, T. A.; Couladouros, E. A.
2nd Hellenic Symposium of Organic Synthesis – From Chemistry to Biology, Medicine and Material Science, Athens, 19-21 April 2007.
80. New Routes Towards the Synthesis of Natural Products and Designed Derivatives
Couladouros, E. A.
2nd Hellenic Symposium of Organic Synthesis – From Chemistry to Biology, Medicine and Material Science, Athens, 19-21 April 2007.
81. Design and synthesis of novel hyperforin analogues
Mitsopoulou, K. P.; Vidali, V. P.; Couladouros, E. A.
3rd Hellenic Symposium of Organic Synthesis, From Chemistry to Biology, Medicine and Materials Science, Athens, 15-17 October 2009.
82. *Culex* sp. Oviposition Pheromone: Synthesis, Microencapsulation and Preliminary Studies for Activity over Time
Michaelakis, A.; Mihou, A. P.; Koliopoulos, G.; Milonas, P.; Couladouros, E. A.

25th annual meeting of the International Society of Chemical Ecology, Neuchatel, Switzerland, 23-27 August 2009.

83. Preliminary studies for the attract-and-kill strategy against the mosquito *Culex pipiens* employing oviposition pheromone and *Bacillus thuringiensis subsp. israelensis*.
Michaelakis, A.; Kontodimas, D.; Anagnou-Veroniki, M.; Kioulos, E.; Koliopoulos, G.; Couladouros, E. A.
Insect Pathogens and Insect Parasitic Nematodes. IOBC/wprs Bulletin Vol 45, pp 187-190, 2009.
84. Design and Synthesis of Novel Hyperforin Analogues. Fascinating skeletal rearrangements of polycyclic polyprenylated acylphloroglucinols core
Mitsopoulou, K. P.; Vidali, V. P.; Dakanali, M.; Demadis, K. D.; Couladouros, E. A.
14th Hellenic Symposium on Medicinal Chemistry, University of Thessaloniki, Greece, April 23-25 2010. (Poster)
85. Synthesis of Novel Hyperforin Analogues with Anticancer Activity
Mitsopoulou, K. P.; Vidali, V. P.; Dakanali, M. I.; Couladouros, E. A.
COST ACTION CM0804, Annual meeting and workshop, Dublin, Ireland, May 6-8 2011.
86. Synthesis of Novel Hyperforin Analogues with Anticancer Activity
Mitsopoulou, K. P.; Vidali, V. P.; Dakanali, M.; Couladouros, E. A.
21st Pan-Hellenic Symposium on Chemistry, Thessaloniki, December 9-12 2011.
87. Chemical Synthesis of Bioactive Natural Products
Couladouros, E. A.
21st Pan-Hellenic Symposium on Chemistry, Thessaloniki, December 9-12 2011.
88. Larvicidal Activity of Hyperforin, Deoxycohumulone and Acetylated Deoxycohumulone Derivatives against *Cx. Pipiens* (Diptera: *Culicidae*)
Mitsopoulou, K. P.; Vidali, V. P.; Koliopoulos, G.; Couladouros, E. A.; Michaelakis, A.
14th Pan-Hellenic Entomological Congress, Nafplio, October 11-14 2011.
89. Designing inhibitors for Rheumatoid arthritis. A "hit to lead" approach.
Eliopoulos, E.; Kollias, G.; Kontopidis, G.; Couladouros, E. A.; Douni, E.; Papakyriakou, T.; Alexiou, P.; Thireou, T.; Fimereli, D.; Kostourou, V.; Rinotas, V.; Papadaki, P.; Afantitis, A.; Armaka, M.; Ntougkos, V.; Koliarakis, V.; Papaneophytou, Ch.; Mettou, A.; Denis, M.; Karagianni, N.; Chaitidou, S.; Gouma, S.; Katsoulis, I.; Liepouri, F.; Strongilos, A.
National Hellenic Research Foundation, Institute of Organic & Pharmaceutical Chemistry Structure- & Computer-Aided Design Workshop: Bioactive Molecules & Materials, 7 – 11 November, Athens 2011.
90. Inhibition of TNF- α : potential therapeutic compounds for Rheumatoid Arthritis
Papaneophytou, Ch.; Mettou, A.; Alexiou, P.; Couladouros, E. A.; Liepouri, F.; Maranti, A.; Strongilos, A.; Kontopidis, G.
National Hellenic Research Foundation, Institute of Organic & Pharmaceutical Chemistry Structure- & Computer-Aided Design Workshop: Bioactive Molecules & Materials, 7 – 11 November, Athens 2011.
91. Hyperforin and Deoxycohumulone as Potential Larvicidal Mosquito Agents

- Mitsopoulou, K. P.; Vidali, V. P.; Koliopoulos, G.; Couladouros, E. A.; Michaelakis, A.
15th Hellenic Symposium on Medicinal Chemistry, Athens, Greece, May 25-27 2012.
92. Synthesis and evaluation of the allosteric effect of PIK-108, a PI3K α inhibitor (Poster presentation)
 Kapella A., Gkeka P., Papafotika A., Christoforidis S., Cournia Z., Maranti A., Couladouros E.
1st International Congress: From drug discovery to drug delivery, Athens 13-15 November 2014.
93. Synthesis and evaluation of the allosteric effect of PIK-108, a PI3K α inhibitor (Poster presentation)
 Kapella A., Gkeka P., Papafotika A., Christoforidis S., Cournia Z., Maranti A., Couladouros E.
12th Congress of Cyprus - Chemistry, Pillar of post-crisis development, Thessaloniki, May 8-10, 2015.
94. Chemical Approaches Targeting Drug Resistance in Cancer Stem Cells,
EU COST CMST ACTION CM1106 - Athens 26-27 March 2015 (participation).
92. Μοριακοί κρύσταλλοι ανθρακενίων για υλικά λιθογραφίας και οργανικά ηλεκτρονικά, με υψηλή αντίσταση στην εγχάραξη (Παρουσίαση Πόστερ)
 Β. Βιδάλη, Α. Καπέλλα, Δ. Νιάκουλα, D. R. Gautam, Μ. Βασιλοπούλου, Π. Αργεΐτης, Η. Κουλαδούρος
22ο Πανελλήνιο Συνέδριο Χημείας, Θεσσαλονίκη 2- 4 Δεκεμβρίου 2016.
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
2nd Israel-Greece Joint Meeting on Nanotechnology and BioNanoscience, Heraklion, Crete 25-28 October 2016.
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
12th Conference of the Hellenic Society for Computational Biology and Bioinformatics, Hellenic Pasteur Institute, Athens 11-13 October 2017.
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
E-MRS Spring Meeting, Strasbourg France, May 22- 26, 2017.
98. An Improved Formal Synthesis of Abyssomicin C
 Veroniki P. Vidali, Aggelos Petroulias, Aleksander Canko, Emmanuel A. Bouzas, Elias A. Couladouros
Athens Conference on Advances in Chemistry, National and Kapodistrian University of Athens, November, 2018.
99. An Improved Synthetic Route to Abyssomicin C

- Veroniki P. Vidali, Aggelos Petroulias, Aleksander Canko, Emmanuel A. Bouzas, Elias A. Couladouros
30th International Symposium on the Chemistry of Natural Products, Athens, **2018**.
100. Abstract LB-262: Design, synthesis, and efficacy of MYC inhibitors in mouse pancreatic cancer
V. P. Vidali, Z. Cournia, A. Papadimitropoulou, D. Stellas, A. Klinakis, E. A. Couladouros, C. Tamvakopoulos, A. Efstratiadis, July 2018, *Cancer Research* 78(13 Supplement):LB-262-LB-262, April 14-18, Chicago, Illinois, USA, DOI: 10.1158/1538-7445.AM2018-LB-262, **2018** (poster).
101. Solution-processable organic semiconductors based on anthracene as main components of active layers in OLEDs: Design, synthesis and application V. P. Vidali, M. Vasilopoulou, D. Niakoula, A. Kapella, A. Verykios, E. T. Georgas, S. Kennou, D. R. Gautam, E. Gogolides, E. A. Couladouros, P. Argitis, 26th International Conference on Advanced Nanotechnology, October 4-5, Moscow, Russia (poster presentation) DOI: [10.21767/2471-9838-C5-021](https://doi.org/10.21767/2471-9838-C5-021) **2018**.
102. An Improved Synthetic Route to Abyssomicin C
A. Canko, V. P. Vidali, A. Peroulis, E. A. Bouzas, E. A. Couladouros
International Summer School on Organic Synthesis, Universita degli Studi di Milano, Gargnano, Italy, **2019**.

Διδακτικά εγχειρίδια

1. "Πρακτικά και Θεωρητικά Θέματα Γενικής Χημείας",
Βιολέττα Κωσταντίνου-Ηλίας Κουλαδούρος, Γεωπονικό Πανεπιστήμιο Αθηνών,
Εργαστήριο Γενικής Χημείας, 1999, Βοτανικός