

ΗΛΙΑΣ Α. ΚΟΥΛΑΔΟΥΡΟΣ

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Όνοματεπώνυμο: 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 Φυσικοχημείας, Ε.Κ.Ε.Φ.Ε. "Δημόκριτος", Αγία Παρασκευή, Αττικής 602 28
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ΣΠΟΥΔΕΣ

1988–1989 Μεταδιδακτορικό (post doctor), University of Pennsylvania, Καθ. Κ. 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:

- Διαρυλαιθέρες (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, Resorcylyde)
- 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
- Φωτοευαίσθητοποιητές 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 ΙΙ, 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 ΙΙ-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 Φυσικοχημείας του Ε.Κ.Ε.Φ.Ε. "Δημόκριτος"
- Διδασκαλία Συνθετικής Οργανικής Χημείας I (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 **Μπρεβετοζίνης 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)
 - "Naphtho-1,4-quinones"
- In *Science of Synthesis*, Georg Thieme Verlag, Stuttgart, NY, 28, 217-322, **2006** (Book chapter).

ΣΥΝΕΡΓΑΣΙΕΣ

- Γεωπονικό Πανεπιστήμιο Αθηνών (Μ. Πολυσιού, Π. Χατζόπουλος, Σ. Χαρουτουιάν)
- Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (Β. Παπαγεωργίου)
- Πανεπιστήμιο Αθηνών (Ν. Χατζηρησιτίδης, Β. Ρούσσης)
- Ινστιτούτο Φυτικοχημείας ΕΚΕΦΕ "Δημόκριτος" (Κ. Παλαιός)
- Ινστιτούτο Βιολογίας ΕΚΕΦΕ "Δημόκριτος" (Β. Μαζωμένος)
- Ινστιτούτο Μικροηλεκτρονικής ΕΚΕΦΕ "Δημόκριτος" (Π. Αργείτης)
- 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

91 επιστημονικές εργασίες.
13 διπλώματα ευρεσιτεχνίας.
102 συμμετοχές σε επιστημονικά συνέδρια.
1 διδακτικό βιβλίο.

Για τις εργασίες αυτές υπάρχουν περισσότερες από 3194 αναφορές άλλων επιστημόνων σύμφωνα με το ICI Web of Science (h-index= 27). 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-(2*R*)-2-hydroxymethyl-2*H*-pyran-3(6*H*)-one and its Trityl Derivative"
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Διπλώματα ευρεσιτεχνίας

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B. Βιδάλη, A. Καπέλλα, Δ. Νιάκουλα, D. R. Gautam, M. Βασιλοπούλου, Π. Αργεΐτης, H. Κουλαδούρος
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Διδακτικά εγχειρίδια

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