

## Curriculum Vitae

### Personal data:

**Name:** Emmanuel A. Bouzas  
**Date and place of birth:** March 5, 1978; Athens, Greece  
**Citizenship:** Greek  
**Current Address:** Agricultural University of Athens / School of Food and Nutritional Sciences / Department of Food Science & Human Nutrition / Laboratory of General Chemistry  
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### Education:

1/02 – 6/07  
Institution: Ph.D. in Synthetic Organic Chemistry (2007), (*excellent*).  
Department of Science, Agricultural University of Athens,  
Title: Synthesis and exploitation of natural products  
9/97 – 11/01  
Institution: B.Sc. in Chemistry (2001), (*grade 7.75, very good*).  
Department of Chemistry, University of Patras, Greece

### Appointments:

6/14 – current  
Position held: Laboratory Teaching Staff (Organic Chemistry, General and Inorganic Chemistry, Analytical Chemistry, Instrumental Analysis, Natural Products)  
Institution: Agricultural University of Athens, Laboratory of General Chemistry  
5/07 – 5/14  
Position held: Assistant Laboratory Teaching Staff  
Institution: Agricultural University of Athens, Laboratory of General Chemistry  
1/02 – 1/05  
Position held: Teaching Assistant  
Institution: Agricultural University of Athens, Laboratory of General Chemistry  
11/02 – 11/05  
Position held: Scientific Collaborator  
Institution: Agricultural University of Athens, Laboratory of General Chemistry  
Research Program title: “Synthesis and evaluation of bioactive naphthoquinones and colorless derivatives for application as wound healing agents”  
Supervisor: Prof. E. A. Couladouros  
1/02 – 6/02  
Position held: Associate Researcher  
Institution: National Center for Scientific Research “DEMOKRITOS”, Institute of Physical Chemistry, Laboratory of Natural Product Synthesis and Bioorganic Chemistry, Greece  
Research Program title: “Interference of Synthetic Bastadins with Intracellular Calcium Stores in Brain Neurons *in vitro* and *in vivo*”  
Supervisors: Prof. E. A. Couladouros and Dr. E. Pitsinos

**Research experience:**

12/16 – current	Scientific Collaborator
Institution:	Agricultural University of Athens, Laboratory of General Chemistry
Scientific Coordinator:	Prof. V. Constantinou-Kokotou
Project:	“Determination of Selenium in foods with Atomic Absorption Spectroscopy”
9/18 – 7/20	Scientific Collaborator
Institution:	1. National Center for Scientific Research “DEMOKRITOS”, Laboratory of Natural Product Synthesis & Bioorganic Chemistry 2. Agricultural University of Athens, Laboratory of General Chemistry
Scientific Coordinator:	Dr. V. Vidali
Project:	“Improved, scalable Synthesis of Abyssomycin C and <i>atrop</i> -Abyssomycin C”
10/07 – 2/08	Scientific Collaborator
Institutions:	1. Agricultural University of Athens, Laboratory of General Chemistry 2. Benaki Phytopathological Institute
Collaborator Researcher:	Dr. A. Michaelakis
Project:	“Synthesis of colorless Shikonin derivatives with larvicidal activity against mosquito <i>Culex pipiens</i> ”
1/02 – 7/07	Postgraduate Scholar (PhD candidate)
Institutions:	1. Agricultural University of Athens, Laboratory of General Chemistry 2. National Center for Scientific Research “DEMOKRITOS”, Laboratory of Natural Product Synthesis & Bioorganic Chemistry
Supervisor:	Prof. E. A. Couladouros
Projects:	1. “Total Synthesis of resorcylic type macrolides: trans-Resorcylic, cis-Resorcylic and Monocillin I. Macrocyclization via Enone-Ene Ring Closing Metathesis” 2. “Synthesis of the new MRSA- & VRSA-antibiotic Abyssomycin C via a biomimetic intramolecular [4+2] cycloaddition” 3. “Synthesis and biological evaluation of Sikalkin derivatives for application to wound-healing agents”
9/00 – 7/01	Undergraduate Research Assistant.
Institution:	University of Patras, Department of Chemistry, Laboratory of Synthetic Organic Chemistry.
Supervisor:	Prof. D. A. Papaioannou
Subject:	“Studies on the synthesis of polyamine conjugates with retinoids”

**Teaching experience (lab exercises of the following courses):**

Organic Chemistry (2002-2005, 2007-today)  
Natural Products: Chemistry and Bioactivity, (2018-today)  
General and Inorganic Chemistry, (2002-2005, 2007-today)  
Instrumental Chemical Analysis, (2014-today)  
Analytical Chemistry (2009-today)

**Research fields:** Synthetic Organic Chemistry, Natural Products Chemistry and Bioactivity, Food Chemistry

## **Publications:**

1. *“First Total Synthesis of trans- and cis-Resorcylic: Remarkable Hydrogen-Bond-Controlled, Stereospecific Ring Closing Metathesis”*  
E. A. Couladouros, A. P. Mihou and E. A. Bouzas  
*Org. Lett.* **2004**, *6*, 977-980.
2. *“Formal Synthesis of Abyssomicin C”*  
E. A. Couladouros, E. A. Bouzas and A. D. Magos  
*Tetrahedron* **2006**, *62*, 5272-5279.
3. *“Larvicidal activity of naturally occurring naphthoquinones and derivatives against the West Nile virus vector Culex pipiens”*  
A. Michaelakis, A. T. Strongilos, E. A. Bouzas, G. Koliopoulos and E. A. Couladouros  
*Parasitol. Res.* **2009**, *104*, 657-662.
4. *“An Improved Biomimetic Formal Synthesis of Abyssomicin C and atrop-Abyssomicin C”*  
V. P. Vidali, A. Canko, A. D. Peroulis, E. T. Georgas, E. Bouzas, J. M. Herniman and E. A. Couladouros  
*Eur. J. Org. Chem.* **2020**, *29*, 4547-4557.

## **Conferences:**

1. *“Natural products – Total synthesis, designed derivatives, biological studies”*, E. A. Couladouros, E. Pitsinos, M. Sagnou, I. Soufli, Z. Plyta, A. Mihou, G. Saracinos, V. Moutsos, A. Strogilos, V. Vidali, A. Magos, E. Bouzas, A. Michaelakis (poster communication). “Biodiversity and the effects on health and nutrition” Goulandris Museum of Natural History, Kifisia, 12 December **2001**.
2. *“Synthetic Approaches Towards Radicol”*, E. A. Bouzas, A. P. Mihou, E. A. Couladouros (oral presentation). “8<sup>th</sup> Postgraduate Conference in Chemistry - University of Crete”, Anogia Crete, 28-30 June **2002**.
3. *“Synthetic Approaches Towards Radicol”*, E. A. Bouzas, A. P. Mihou, E. A. Couladouros (poster communication). “Ischia Advanced School of Organic Chemistry - IASOC 2002”, Ischia Italy, 21-26 September **2002**.
4. *“Application of carbonylative Stille cross coupling reaction en route to the Synthesis of Radicol”*,  
E. A. Bouzas, A. P. Mihou, E. A. Couladouros (poster communication). “19<sup>th</sup> Panhellenic Chemistry Conference: The diversity of Chemistry and its Applications”, Herakleio Crete, 6-10 November **2002**.
5. *“General Methodology for the Synthesis of Resorcylic Macrolides using Ring Closing Metathesis. Application to the Syntheses of trans-Resorcylic, cis-Resorcylic and Radicol”*, E. A. Bouzas, A. P. Mihou, E. A. Couladouros (poster communication). “1<sup>st</sup> Hellenic Symposium - Organic Synthesis - From Chemistry to Biology, Medicine and Material Science”, Athens, 4-6 November **2004**.
6. *“Synthesis and in vitro Activity of Shikalkin Derivatives”*, H. Pratsinis, D. Kletsas, E. A. Bouzas, A. Michaelakis, A. T. Strongilos and E. A. Couladouros (poster communication). “8<sup>th</sup> International Conference of Medicinal Chemistry - Design and development of pharmaceutical products”, Patra, 15-17 March **2007**.

7. "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 (poster communication) "International Symposium on Chemistry, Biology and Medicine", Cyprus, 28 May - 1 June, **2006**.
8. "Studies of Enone - Ene Ring Closing Metathesis. Total Synthesis of Monocillin II.", A. G. Maranti, E. A. Bouzas, E. A. Couladouros (poster communication). "8<sup>th</sup> International Conference of Medicinal Chemistry - Design and development of pharmaceutical products", Patra, 15-17 March **2007**.
9. "Synthetic Studies towards Monocillins I, II & III", A. G. Maranti, E. A. Bouzas, E. A. Couladouros (poster communication). "2<sup>nd</sup> Hellenic Symposium - Organic Synthesis - From Chemistry to Biology, Medicine and Material Science", Athens, 19-21 April **2007**.
10. "Studies towards an Improved Synthesis of the new anti-MRSA & VRSA polyketide, Abyssomicin C", E. A. Bouzas, A. D. Magos, A. E. Chiotellis, T. A. Salama, E. A. Couladouros (poster communication). "2<sup>nd</sup> Hellenic Symposium - Organic Synthesis - From Chemistry to Biology, Medicine and Material Science", Athens, 19-21 April **2007**.
11. "An Improved Synthetic Route to Abyssomicin C", V. P. Vidali, A. Petroulias, A. Canko, E. A. Bouzas, Elias A. Couladouros "30<sup>th</sup> International Symposium on the Chemistry of Natural Products", Athens, **2018**.
12. "An Improved Synthetic Route to Abyssomicin C" A. Canko, V. P. Vidali, A. Peroulias, E. A. Bouzas, E. A. Couladouros "International Summer School on Organic Synthesis", Università degli Studi di Milano, Gargnano, Italy, **2019**.
13. "Selenium assimilation by broccoli: Effect of Se inputs on the biosynthesis of secondary metabolites under normal or reduced S inputs" M. Adamopoulou, E. A. Bouzas, M. Perouli, M. G. Kokotou, S. N. Chorianopoulou, V. F. Siyiannis, V. Constantinou-Kokotou, D. L. Bouranis, "28<sup>th</sup> International Symposium of the Scientific Centre for Fertilizers (CIEC)", upcoming online, November **2020**.

### **Monographs:**

1. "Natural Products: Chemistry and Bioactivity - laboratory exercises", Emmanuel Bouzas, Anastasia Mihou, Dimitra Daferera, Agricultural University of Athens, Laboratory of General Chemistry, **2018**, Votanikos