



Dimitris Georgiadis

Assistant Professor

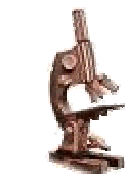


Education

B.Sc. in Chemistry, University of Athens (1995)

Ph.D. in Chemistry (Organic Chemistry), University of Athens (2000)

Post Doctoral studies at the CEA, Département d'Ingénierie et d'Études des Protéines, Paris, France. (2000-01)



Research Fields of Interest

1. Medicinal Chemistry (Drug Design and Discovery, Combinatorial Chemistry)
2. Peptidomimetics (Phosphinic Pseudopeptides, Conformationally Constrained Peptidomimetics)
3. Synthesis of Natural Products
4. Organic Synthetic Chemistry (Synthetic Methodology)



Teaching

Undergraduate:

Organic Chemistry II (Laboratory training for Chemists)

Organic Chemistry II, Organic spectroscopy (Lecture courses for Chemists)

Organic Chemistry III (Lecture courses for Chemists)

Graduate:

NMR Structure Elucidation

Special Topics in Organic Chemistry – Pericyclic Reactions



Selected Papers

(22) Rogakos, V.; **Georgiadis, D.**; FDYiotakis, A. «[Phosphinic Tripeptides as Dual Angiotensin-Converting Enzyme C-Domain and Endothelin-Converting Enzyme-1 Inhibitors](#)» *Journal of Medicinal Chemistry* **2010**, *53*, 208-220.

(21) Rogakos, V.; **Georgiadis, D.**; Dive, V.; Yiotakis, A. «[A Modular Rearrangement Approach toward Medicinally Relevant Phosphinic Structures](#)», *Organic Letters* **2009**, *11*, 4696-4699.

(20) **Georgiadis, D.**; Yiotakis, A. «[Specific Targeting of Metzincin Family Members with Small-Molecule Inhibitors: Progress Towards a Multifarious Challenge](#)» *Bioorganic and Medicinal Chemistry* **2008**, *16*, 8781-8794.

(19) Nasopoulou, M.; **Georgiadis, D.**; Matziari, M.; Dive, V.; Yiotakis, A. «[A Versatile Annulation Protocol toward Novel Constrained Phosphinic Peptidomimetics](#)» *Journal of Organic Chemistry* **2007**, *72*, 7222-7228.

(18) Corradi, H.R.; Chitapi, I.; Sewell, B.T.; **Georgiadis, D.**; Dive, V.; Sturrock, E.D.; Acharya, K.R. «[The Structure of Testis Angiotensin-Converting Enzyme in Complex with the C Domain-Specific Inhibitor RXPA380](#)» *Biochemistry* **2007**, *46*, 5473-5478.

(17) Zografos, A.L.; **Georgiadis, D.** «[Synthetic Strategies Towards Naturally Occuring Tetronic Acids](#)», *Synthesis* **2006**, 3157-3188.

(16) Jullien, N.D.; Cuniasse, P.; **Georgiadis, D.**; Yiotakis, A.; Dive, V. «[Combined Use of Selective Inhibitors and Fluorogenic Substrates to Study the Specificity of Somatic Wild-Type Angiotensin-Converting Enzyme](#)», *FEBS Journal* **2006**, *273*, 1772-1781.



- (15) Zografos, A.L.; Yiotakis, A.; **Georgiadis, D.** «[Rapid Access to the Tricyclic Spirotetronic Core of Abyssomicins](#)», *Organic Letters* **2005**, *7*, 4515-4518.
- (14) Cuniasse, P.; Devel, L.; Makaritis, A.; Beau, F.; **Georgiadis, D.**; Matziari, M.; Yiotakis, A.; Dive, V. «[Future Challenges Facing the Development of Specific Active-Site-Directed Synthetic Inhibitors of MMPs](#)», *Biochimie* **2005**, *87*, 393-402.
- (13) van Esch, J.H.; Tom, B.; Dive, V.; Batenburg, W.W.; **Georgiadis, D.**; Yiotakis, A.; van Gool, J.M.; de Bruijn, R.J.; de Vries, R.; Danser, A.H. «[Selective Angiotensin-Converting Enzyme C-Domain Inhibition is Sufficient to Prevent Angiotensin I-Induced Vasoconstriction](#)», *Hypertension* **2005**, *45*, 120-125.
- (12) Dive, V.; **Georgiadis, D.**; Matziari, M.; Makaritis, A.; Beau, F.; Cuniasse, P.; Yiotakis, A. «[Phosphinic Peptides as Zinc Metalloproteinase Inhibitors](#)», *Cellular and Molecular Life Sciences* **2004**, *61*, 2010-2019.
- (11) **Georgiadis, D.**; Cuniasse, P.; Cotton, J.; Yiotakis, A.; Dive, V. «[Structural Determinants of RXPA380, a Potent and Highly Selective Inhibitor of the Angiotensin-Converting Enzyme C-Domain](#)», *Biochemistry* **2004**, *43*, 8048-8054.
- (10) Yiotakis, A.; Matziari, M.; Makaritis, A.; **Georgiadis, D.**; Dive, V. «[Phosphinic Peptides: Synthetic Approaches and Biochemical Evaluation as Zn-Metalloproteases Inhibitors](#)», *Current Organic Chemistry* **2004**, *8*, 1135-1138.
- (9) **Georgiadis, D.**; Beau, F.; Czarny, B.; Cotton, J.; Yiotakis, A.; Dive, V. «[Roles of the two Active Sites of Somatic Angiotensin-Converting Enzyme in the Cleavage of Angiotensin I and Bradykinin. Insights from Selective Inhibitors](#)», *Circulation Research* **2003**, *93*, 148-154.
- (8) Makaritis, A.; **Georgiadis, D.**; Dive, V.; Yiotakis, A. «[Diastereoselective Solution and Multipin-based Combinatorial Array Synthesis of a Novel Class of Potent Phosphinic Metalloprotease Inhibitors](#)», *Chemistry, A European Journal* **2003**, *9*, 2079-2094.
- (7) **Georgiadis, D.**; Dive, V.; Yiotakis, A. «[Synthesis and Comparative Study on the Reactivity of Peptidyl-type Phosphinic Esters. Intramolecular Effects in the Alkaline and Acidic Cleavage of Methyl \$\beta\$ -Carboxyphosphinates](#)», *Journal of Organic Chemistry* **2001**, *66*, 6604-6610.
- (6) **Georgiadis, D.**; Matziari, M.; Yiotakis, A. «[A Highly Efficient Method for the Preparation of Phosphinic Pseudodipeptidic Blocks Suitably Protected for Solid-Phase Peptide Synthesis](#)», *Tetrahedron* **2001**, *57*, 3471-3478.
- (5) Matziari, M.; **Georgiadis, D.**; Dive, V.; Yiotakis, A. «[Convenient Synthesis and Diversification of Dehydroalaninyl Phosphinic Peptide Analogues](#)», *Organic Letters* **2000**, *3*, 659-662.
- (4) Dive, V.; Lucet-Levannier, K.; **Georgiadis, D.**; Cotton, J.; Vassiliou, S.; Cuniasse, P.; Yiotakis, A. «[Phosphinic Peptide Inhibitors as Tools in the Study of the Function of Zinc Metalloproteases](#)», *Biochemical Society Transactions* **2000**, *28*, 455-460.
- (3) **Georgiadis, D.**; Vazeux, G.; Llorens-Cortes, C.; Yiotakis, A.; Dive, V. «[Potent and Selective Inhibition of Zinc Aminopeptidase A \(EC 3.4.11.7, APA\) by Glutamyl Aminophosphinic Peptides. Importance of Glutamyl Amiphosphinic Residue in the P₁ position](#)», *Biochemistry* **2000**, *39*, 1152-1155.
- (2) Vassiliou, S.; Mucha, A.; Cuniasse, P.; **Georgiadis, D.**; Lucet-Levannier, K.; Beau, F.; Kannan, R.; Murphy, G.; Knäuper, V.; Rio, M.-C.; Basset, P.; Yiotakis, A.; Dive, V. «[Phosphinic Pseudo-Tripeptides as Potent Inhibitors of Matrix Metalloproteinases: A Structure-Activity Study](#)», *Journal of Medicinal Chemistry* **1999**, *42*, 2610-2620.
- (1) Georgiadis, D.; Matziari, M.; Vassiliou, S.; Dive, V.; Yiotakis, A. «[A Convenient Method to Synthesize Phosphinic Peptides Containing an Aspartyl or Glutamyl Aminophosphinic Acid. Use of the Phenyl Group as the Carboxyl Synthone](#)», *Tetrahedron* **1999**, *55*, 14635-14648.

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