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### Education

- 1988-1992** Post Doctoral studies in Medicinal Chemistry and Pharmacology  
University of Illinois at Chicago, USA.
- 1988** Ph.D. in Organic Medicinal Chemistry, "Synthese chimique et etude de substances cytotoxiques dirigees specifiquement contre les cellules cancéreuses. Conjugaison avec des proteines specifiques".  
Supervisor: Prof. K. Antonakis, University Paris VII, FRANCE.
- 1984** D.E.A. (Advanced Studies Diploma in Organic Medicinal Chemistry)  
University Paris VII, FRANCE.
- 1983** M.Sc. in Organic Chemistry, University Paris VII, FRANCE.
- 1982** B.Sc. in Physical Chemistry, University Paris VII, FRANCE.

### Employment record

- 2010-** Vice president of the Biochemistry and Biotechnology Department,  
University of Thessaly, Larissa, Greece
- 2010-** Quality Assurance Manager of the Biochemistry and Biotechnology  
Department
- 2009-** Associate Professor of Organic Chemistry, University of Thessaly,  
Larissa, Greece
- 2009-** Member of the Internal Evaluation Committee of the Biochemistry and  
Biotechnology Department
- 2000-2009** Assistant Professor of Organic Chemistry, University of Thessaly, Larissa,  
Greece
- 2007-** Lecturer at Hellenic Open University  
**2003-** Member of the General Assembly of the Biochemistry and Biotechnology  
Department

- 2003-** Manager of Qualifying Exams of Organic Chemistry at the Biochemistry and Biotechnology Department
- 1998-2000** Plant and Production Manager, VERNILAC, Vernish and Paint company, GREECE
- 1997-1998** Production Manager/Assistant Plant Manager  
P.N. GEROLYMATOS, Pharmaceutical and cosmetic company, GREECE
- 1993 -1997** Director of the Chemistry Laboratory and Production Supervisor  
G.A.P., Pharmaceutical company, GREECE.
- 1988-** Adjunct Assistant Professor of Medicinal Chemistry and Pharmacology, University of Illinois at Chicago, Chicago, U.S.A.  
Honorary Prof. of Med. Chemistry, University of Illinois, Chicago
- 1990-1992** Assistant Professor, the Department of Chemistry, Roosevelt University, Chicago, U.S.A.
- 1990-1993** Research Scientist,  
Receptor Laboratories Inc., 2201 W. Campbell Park Dr., Chicago, U.S.A.

## Publications

1. Synthesis of 7-[3-bromo-3,4-dideoxy-6-O-(2-hydroxy)-ethyl- $\beta$ -D-glycero-hex-3-enopyranosyl-2-ulose]theophylline. Therese Halmos, **Dimitri Komiotis**, and Kostas Antonakis, *Carbohydr. Res.*, **145**, (1985) 163-168.
2. Rapid and selective detritylation of primary alcohols using formic acid. Michel Bessodes, **Dimitri Komiotis**, and Kostas Antonakis, *Tetrahedron Letters*, **27**, (1986), 579-580.
3. Cancer oriented ketonucleosides. Synthesis of carboxy and hydroxy derivatives of 7-(3,4-dideoxy-3-D-glycero-hex-3-enopyr anosyl) theophylline and their coupling with cancer specific proteins. Therese Halmos, **Dimitri Komiotis**, and Kostas Antonakis, *Carbohydr. Res.*, **156**, (1986), 256-263.
4. Stereoselective synthesis of amino-acyl heptoglycosides: Synthetic tools for biochemical interaction studies. Michel Bessodes, **Dimitri Komiotis**, and Kostas Antonakis, *J. Chem. Soc. Perkin I*, (1989), 41-45.
5. Synthesis of 1-[6,7-anhydro-4-O-tert-butylidimethylsilyl-2,3-O-isopropylidene-D (and L)-threo- $\alpha$ -D-manno-octopyranosyl]thymines, precursors to higher carbon sugar nucleosides. Dimitri Komiotis, Michel Bessodes, and Kostas Antonakis, *Carbohydr. Res.*, **190**, (1989), 153-158.
6. Biologically important nucleosides: a general method for the synthesis of unsaturated ketonucleosides of uracil and its analogs. **Dimitri Komiotis**, Sylvie Delatre, Leonard Holt, Abraham P. Ollapally, Jan Balzarini, Eric de Clercq, *Nucleosides Nucleotides* **10**, (1991), 431-455.

7. PGH<sub>2</sub> analogs as potential antiplatelet derivatives. **Dimitri Komiotis**, Chong T. Lim, Jeanette P. Dieter, Guy C. LeBreton, and Duane L. Venton, *J. Med. Chem.*, **35**, (1992), 3033-3039.
8. Purification of the human blood platelet thromboxane A<sub>2</sub>/prostaglandin H<sub>2</sub> receptor protein. Sun-Ok Kim, Chang T. Lim, Stephen T. Lam, Steven E. Hall, **Dimitri Komiotis**, Duane L. Venton, and Guy C. LeBreton, *Biochem. Pharmacol.* **43**, (1992), 313-322.
9. Anti-peptide antibodies against the human blood platelet thromboxane A<sub>2</sub>/prostaglandin H<sub>2</sub> receptor: Production, purification and characterization. Catherine Borg, Stephen C.T. Lam, Jeanette P. Dieter, Chang T. Lim, **Dimitri Komiotis**, Duane L. Venton and Guy C. LeBreton. *Biochem. Pharmacol.* **45**, (1993), 2071-2078.
10. Preparation of monotritylated symmetric 1,n-diols. **Dimitri Komiotis**, Bruce L. Currie, Guy C. LeBreton, and Duane L. Venton. *Synth. Comm.* **23**, (1993), 531-534.
11. Purification of Rat Brain, Rabbit Aorta, and Human Platelet Thromboxane A<sub>2</sub>/Prostaglandin H Receptors by Immunoaffinity Chromatography Employing Anti-peptide and Anti-receptor Antibodies. Catherine Borg, Chang T. Lim, David G. Yeomans, Jeanette P. Dieter, **Dimitri Komiotis**, Edmund G. Anderson and Guy C. LeBreton. *J. Biol. Chem.* **269**, (1994), 6109-6116.
12. Synthesis of dl-*cis*- and (4*R*,5*R*)-*trans*-7-(2,2-Dimethyl-4-(phenylsulfonyl)-aminomethyl-1,3-dioxolan-5-yl)-5*Z*-heptenoic acid analogues as thromboxane A<sub>2</sub> receptor antagonists. **Dimitri Komiotis**, Somchai Pananookooln, K. Zaw, Jeanette P. Dieter, Guy C. LeBreton and Duane L. Venton. *J.Eur.Med.Chem.* **30**, (1995), 321-326.
13. Labeling of Human Platelet Plasma Membrane Thromboxane A<sub>2</sub>/Prostaglandin H<sub>2</sub> Receptors Using SQB, a Novel Biotinylated Receptor Probe. **Dimitri Komiotis**, June D. Wencel-Drake, Jeanette P. Dieter and Guy C. LeBreton. *Biochem. Pharmacol.* **52** (1996), 763-770.
14. New short route to unsaturated fluoroketonucleosides: Case of 5-fluoro-1-(6-O-acetyl-3,4-dideoxy-3-fluoro-β-D-glycero-hex-3-eno-pyranos-2-ulosyl)uracil. Marie Jose Egron, **Dimitri Komiotis**, Ismet Dorange, Jean Herscovici and Kostas Antonakis. *Nucleosides Nucleotides and Nucleic Acids*, **24** (2005), 243-246.
15. A facile, one step, conversion of O-Trityl and O-TBDMS sugars into corresponding formate esters. **Dimitri Komiotis**, George Agelis, Stella Manta, Niki Tzioumaki, Evangelia Tsoukala and Kostas Antonakis. *J. Carbohydr. Chem.*, **25** (2006), 441-450.
16. Detection of unusual mutation within the VP1 region of different re-isolates of poliovirus Sabin vaccine. Evaggelos Dedepsidis, Ioannis Karakasiliotis, Eleni Paximadi, Zaharoula Kyriakopoulou, **Dimitri Komiotis** and Panayotis Markoulatos. *Virus Genes*, **33** (2006), 183-191.

17. Fluoro-ketopyranosyl nucleosides: Synthesis and biological evaluation of 3-fluoro-2-keto- $\beta$ -D-glucopyranosyl derivatives of N<sup>4</sup>-benzoyl cytosine. Stella Manta, George Agelis, Tanja Botić, Avrelija Cencič and **Dimitri Komiotis**. *Bioorganic Medicinal Chemistry*, **15** (2007), 980 – 987.
18. An efficient synthesis of 3-fluoro-5-thio- $\beta$ -D-xylofuranosyl nucleosides of thymine, uracil and 5-fluorouracil as Potential Antitumor or Antiviral Agents. Evangelia Tsoukala, George Agelis, Jan Dolinšek, Tanja Botić, Avrelija Cencič and **Dimitri Komiotis**. *Bioorganic Medicinal Chemistry*, **15** (2007), 3241 – 3247.
19. Synthesis and structural characterization of neutral “3+2” oxorhenium and oxotechnetium complexes of the 2-mercaptoethyl-N-glycine (SNO) / 2,2'-bipyridine (NN) mixed ligand system. Dionysia Papagiannopoulou, Ioannis Pirmettis, Maria Pelecanou, **Dimitri Komiotis**, Catherine P. Raptopoulou, Aris Terzis, Minas S. Papadopoulos. *Inorg. Chim. Acta.* **360** (2007), 3597-3602.
20. Exomethylene pyranonucleosides: Efficient synthesis and biological evaluation of 1-(2,3,4-trideoxy-2-methylene- $\beta$ -D-glycero-hex-3-enopyranosyl)thymine. George Agelis, Niki Tzioumaki, Jan Dolinšek, Tanja Botić, Avrelija Cencič and **Dimitri Komiotis**. *Bioorganic Medicinal Chemistry* **15** (2007), 5448-5456.
21. Antioxidant activity of a series of fluorinated pyrano-nucleoside analogues of N<sup>4</sup>-benzoyl cytosine and N<sup>6</sup>-benzoyl adenine. Chrysoula Spanou, Stella Manta, **Dimitri Komiotis** and Demetrios Kouretas. *Int. J. Mol. Sci.* **8** (2007), 695-704.
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23. Unsaturated fluoro-ketopyranosyl nucleosides: Synthesis and biological evaluation of 3-fluoro-4-keto- $\beta$ -D-glucopyranosyl derivatives of N<sup>4</sup>-benzoyl cytosine and N<sup>6</sup>-benzoyl adenine. Stella Manta, George Agelis, Tanja Botić, Avrelija Cencič and **Dimitri Komiotis**. *J. Eur. Med. Chem.* **43** (2008), 420 – 428.
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25. Synthesis and molecular modelling of unsaturated exomethylene pyranonucleoside analogues with antitumor and antiviral activities. George Agelis, Niki Tzioumaki, Theodore Tselios, Jan Dolinšek, Tanja Botić, Avrelija Cencič and **Dimitri Komiotis**. *J. Eur. Med. Chem.* **43** (2008), 1366 – 1375.

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27. Antiviral Unsaturated Nucleosides. **Dimitri Komiotis**, Stella Manta, Evangelia Tsoukala, and Niki Tzioumaki. *Curr. Med. Chem.*, **7**, (2008), 219 - 244.
28. Competitive Inhibition of Human Poly(A)-Specific Ribonuclease (PARN) by Synthetic Fluoro-Pyranosyl Nucleosides. Nikolaos Balatsos, Dimitrios Vlachakis, Panagiotis Maragozidis, Stella Manta, Dimitrios Anastasakis, Athanasios Kyritsis, Metaxia Vlassi, **Dimitri Komiotis**, Constantinos. Stathopoulos, *Biochemistry*, **48**, (2009), 6044 - 6051.
29. Synthesis, Antiviral and Cytostatic Evaluation of Unsaturated Exomethylene & Keto D-Lyxopyranonucleoside Analogues. N. Tzioumaki, E. Tsoukala, S.Manta, G. Agelis, J. Balzarini, **D. Komiotis**, *Archiv der Pharmazie*, **342**, (2009), 353 – 360.
30. Dideoxy fluoro-ketopyranosyl nucleosides as potent antiviral agents: Synthesis and biological evaluation of 2,3-and 3,4-dideoxy-3-fluoro-4-and-2-keto-beta-D-glucopyranosyl derivatives of N-4-benzoyl cytosine. S. Manta, E. Tsoukala, A. Cencič, **D. Komiotis**. *Eur. J. Med. Chem.*, **44**, (2009), 2696 – 2704.
31. Unsaturated dideoxy fluoro-ketopyranosyl nucleosides as potent antitumor agents: A convenient synthesis of 2,6-dideoxy-3-fluoro-4-keto- $\beta$ -D-glucopyranosyl analogues of uracil, 5-fluorouracil, thymine, N<sup>4</sup>-benzoyl cytosine and N<sup>6</sup>-benzoyl adenine. S. Manta, N. Tzioumaki, E. Tsoukala, A. Panagiotopoulou, M. Pelecanou, J. Balzarini, **Dimitri Komiotis**. *Eur. J. Med. Chem.*, **44**, (2009), 4764 – 4771.
32. Synthesis of 4,6-dideoxy-3-fluoro-2-keto- $\beta$ -D-glucopyranosyl analogues of 5-fluorouracil, N<sup>6</sup>-benzoyl adenine, uracil, thymine and N<sup>6</sup>-benzoyl cytosine and evaluation of their antitumor activities. Stella Manta, Evangelia Tsoukala, Niki Tzioumaki, Christos Kiritsis, Jan Balzarini and **Dimitri Komiotis**. *Bioorg. Chem.* **38**, (2010), 48-55.
33. Fluoro-glucopyranosyl derivatives of Ketonucleosides, potent inhibitors of DNA virus replication in infected cells. Tanja Botic, Stella Manta, **Dimitri Komiotis**, Avreljia Cencič and Francois Lefevre. *Acta Medico-Biotechnica* **2**, (2009), 41-47.
34. 1-(3-Deoxy-3-fluoro- $\beta$ -D-glucopyranosyl) pyrimidine derivatives as inhibitors of glycogen phosphorylase b: kinetic, crystallographic and modelling studies. Vicky G. Tsirkone, Evangelia Tsoukala, Christos Lamprakis, Stella Manta, Joseph M. Hayes, Vicky T. Skamnaki, Christina Drakou, Spyros E. Zographos, **Dimitri Komiotis** and Demetres D. Leonidas. *Bioorg. Med. Chem.* **18**, (2010) 3413-3425.

35. Synthesis of 3-fluoro-6-S-(2-S-pyridyl) nucleosides as potential lead cytostatic agents. Evangelia Tsoukala, Niki Tzioumaki, Stella Manta, Alexandra Riga, Jan Balzarini and **Dimitri Komiotis**. *Bioorganic Chemistry* **38**, (2010), 285-293.
36. Efficient Synthesis of Exomethylene- & Keto-Exomethylene-D-Glucopyranosyl Nucleoside Analogs as Potential Cytotoxic Agents. Niki Tzioumaki, Evangelia Tsoukala, Stella Manta, Christos Kiritsis, Jan Balzarini, and **Dimitri Komiotis**. *Carbohydrate Research* **346**, (2011), 328-333.
37. Synthesis and biological evaluation of unsaturated keto and exomethylene D-arabinopyranonucleoside analogues: Novel 5-fluorouracil analogues that target thymidylate synthase. Niki Tzioumaki, Stella Manta, Evangelia Tsoukala, Johan Vande Voorde, Sandra Liekens, **Dimitri Komiotis** and Jan Balzarini. *Eur. J. Med. Chem.*, **46**, (2011), 993-1005.
38. Keto-fluorothiopyranosyl nucleosides: A convenient synthesis of 2- and 4-keto- 3-fluoro-5-thioxylopyranosyl thymine analogs. Evangelia Tsoukala, Stella Manta, Niki Tzioumaki, Christos Kiritsis and **Dimitri Komiotis**. *Carbohydrate Research* **346**, (2011), 2011-2015.
39. Unsaturated Keto and Exomethylene Pyranonucleoside Analogues of Thymine and Uracil Exhibit Potent Antioxidant Properties. Chrysoula Spanou, Niki Tzioumaki, Stella Manta, Panagiotis Margaritis, Dimitrios Kouretas, **Dimitri Komiotis**, Kalliopi Liadaki. *Pharmacology & Pharmacy* **2**, (2011), 122-126.
40. Branched-chain C-cyano pyranonucleosides: Synthesis of 3'-C-cyano & 3'-C-cyano-3'-deoxy pyrimidine pyranonucleosides as novel cytotoxic agents. Christos Kiritsis, Stella Manta, Vanessa Parmenopoulou, Jan Balzarini and **Dimitri Komiotis**. *Eur. J. Med. Chem.*, **46**, (2011), 5668-5674.
41. Kinetic and *in silico* analysis of the effective slow-binding inhibition of human Poly(A)-Specific Ribonuclease (PARN) by drastic nucleoside analogues. Nikolaos Balatsos, Dimitrios Vlachakis, Vassiliki Chatzigeorgiou, Stella Manta, **Dimitri Komiotis**, Metaxia Vlassi and Constantinos Stathopoulos. *Biochimie* **94**, (2012), 214-221.
42. Keto and Exomethylene Pyranonucleosides as Antitumor Agents. Evangelia Tsoukala, Stella Manta, Christos Kiritsis and **Dimitri Komiotis**. *Mini Rev. Med. Chem.* **12**, (2012), 255-275.
43. Genome analysis of two type 6 echovirus (E6) strains recovered from sewage specimens in Greece in 2006. Zaharoula Kyriakopoulou, Vaia Pliaka, Dimitris Tsakogiannis, Irina G. A. Ruether, Dimitris Komiotis, Constantina Gartzonika, Stamatina Levidiotou-Stefanou and Panayotis Markoulatos. *Virus Genes*, **44**, (2012), 207-216.
44. 3'-Axial CH<sub>2</sub>OH Substitution on Glucopyranose does not Increase Glycogen Phosphorylase Inhibitory Potency. QM/MM-PBSA Calculations Suggest Why. S. Manta, A. Xipnitou, C. Kiritsis, A.L. Kantsadi, J.M. Hayes, V.T. Skamnaki, C.

Lamprakis, M. Kontou, P. Zoumpoulakis, S.E. Zographos, D.D. Leonidas, and **D. Komiotis**. *Chem Biol Drug Design*, **79**, (2012), 663-673.

45. The  $\sigma$ -hole phenomenon of halogen atoms forms the structural basis of the strong inhibitory potency of C-5 halogen substituted glucopyranosyl nucleosides for glycogen phosphorylase b. Anastasia L. Kantsadi, Joseph M. Hayes, Stella Manta, Vicky T. Skamnaki, Christos Kiritsis, Anna-Maria G. Psarra, Zissis Koutsogiannis, Athina Dimopoulou, Stavroula Theofanous, Nikolaos Nikoleousakos, Panagiotis Zoumpoulakis, Maria Kontou, George Papadopoulos, Spyros E. Zographos, **Dimitri Komiotis**, and Demetres D. Leonidas. *ChemMedChem*. **4**, (2012), 722-732.
46. Synthesis and Biological Evaluation of 3'-C-Ethynyl and 3'-C-(1,4-disubstituted-1,2,3-triazolo) Double-Headed Pyranonucleosides. Christos Kiritsis, Stella Manta, Evdoxia Coutouli-Argyropoulou, Sakellarios Trakossas, Jan Balzarini and **Dimitri Komiotis**. *Med. Chem.* **8**, (2012), 320-329.
47. Stereocontrolled Facile Synthesis And Biological Evaluation of (3'S) and (3'R)-3'-Amino (and azido)-3'-Deoxy Pyranonucleosides. Stella Manta, Vanessa Parmenopoulou, Christos Kiritsis, Athina Dimopoulou, Nikolaos Kollatos, Jan Balzarini and **Dimitri Komiotis**. *Nucleosides, Nucleotides and Nucleic Acids*. **31**, (2012), 522-535.
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49. Conformational Analysis of two novel cytotoxic C2-substituted pyrrolo[2,3-f]quinolines in aqueous media, organic solvents, membrane bilayers and at the putative active site. N. Varvarigou, G. Megariotis, G. Leonis, E. Vrontaki, A. Maniati, M. Vlachou, A. Eikosipentaki, R. Kompogennitaki, M. G. Papadopoulos, S. Golic Grdadolnik, **D. Komiotis**, T. Mavromoustakos, A. Tsotinis. *Bioorg. Med. Chem.* **20**, (2012), 6276-6284.
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51. An intergraded in silico approach to design specific inhibitors targeting human poly(A)-specific ribonuclease. D. Vlachakis, A. Pavlopoulou, G. Tsiliki, **D. Komiotis**, C. Stathopoulos, N.A.A. Balatsos and S. Kossida. *Plos One* **7**, (2012), e51113.
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- V. Parmenopoulou, A. Dimopoulou, N. Kollatos, I. Papatotiriou, J. Balzarini and **D. Komiotis**. *Carbohydr. Res.* **364** (2012), 8-14.
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  58. Unsaturation: An Important Feature to Nucleosides' Antiviral Activity. Stella Manta, Christos Kiritsis, Athina Dimopoulou, Vanessa Parmenopoulou, Nikolaos Kollatos, Andrew Tsoinidis and **Dimitri Komiotis**. *Anti-Infective Agents in Medicinal Chemistry*. 12 (2014) 2-57.
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