

CURRICULUM VITAE

PERSONAL DATA

Name: Georgios Rotas
Date of Birth: March 2, 1977
Place of Birth: Athens, Greece
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EDUCATION

Sept. 1994 – Sept 1998 B.Sc. Department of Chemistry, University of Ioannina, Greece
Apr. 1999 – July 2005 Ph.D. Department of Chemistry, University of Ioannina, Greece.

PROFESSIONAL AND RESEARCH APPOINTMENT

● 1999

University of Ioannina. 96SYN, EPET II. "Study, isolation and biological activity of taxol and related compounds from coniferous trees of Epirus".

● May-June 2000

Dipartimento Di Chimica Organica Dell'Università Di Pavia, Italy. Interreg II, Greece-Italy, Action 5-2 (Scholarship). "A study of the photochemical reaction of 4-bromo- and 4-iodo-*N,N*-dimethylaniline in various solvent systems".

● 2000-2002

University of Ioannina. GSRT, Greek-Georgian Joint Research and Technology Programme. "Synthesis and Biological study of Novel Heterocycles as potent antitumour drugs".

● 2002-2003

University of Ioannina. Research Committee, Project 1291. "Synthesis and structure of porous coordination polymers".

● 2002-2004

University of Ioannina. EPEAEK Heraklitos: Operational Programme for Education and Initial Vocational Training of the Hellenic Ministry of Education under the 3rd Community Support Framework and the European Social Fund (Scholarship). "Synthesis and reactions of pyrrolo[3,2-*c*][1]benzazepines, pyrrolo[1,2-*c*][1.3]benzodiazepines and pyrrolo[1,2-*c*][1.3.6]benzotriazocines from (2-aminophenyl)-(1*H*-pyrrol-2-yl)methanone and *N*-alkyl(or aryl)-1-(2-nitrophenyl)-1*H*-pyrrole-2-carboxamides".

● April-May 2005

University of Ioannina. Pythagoras: Support for Research Groups at Universities (2004-2006) (Associate Researcher). "Synthesis of pyrrole derivatives, suitable for the approach of pyrrolobenzodiazocines as DNA alkylating agents, and the introduction in peptides".

● October-November 2007

Universidad Complutense de Madrid, Spain. ORGANISOLAR ESF exchange grant. "Azafullerene (C₅₉N) donor – extended tetrathiafulvalene (TTF) acceptor dyads. C₅₉N-extTTF materials for energy conversion schemes". Supervisor: Prof. Nazario Martin.

● Apr. 2006 – present

National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece. (Postdoctoral Fellow). "Functionalisation of Carbon Nanotubes encapsulating Novel Carbon-Based Materials". Supervisor: N. Tagmatarchis, Senior Researcher.

LANGUAGES

- Greek
- English

ACADEMIC & PROFESSIONAL ACTIVITIES

Sep 2001 – Jun 2002 Laboratory Assistant to chemistry students, in Organic Chemistry Labs.
Nov 1998 – present Association of Greek Chemists

PRESENTATIONS AT INTERNATIONAL CONFERENCES

1. D. Belekos, N. Karousis, A. Kimbaris, **G. Rotas**, T. Liaskopoulos, S. Skoulika, P. Supsana, P. Tsoungas, G. Varvounis, "The Synthesis of Nitrogen Heterocycles from Pyrroles and Naphthols", The Third Jordanian International Conference of Chemistry, 22–26 April, **2002**, Yarmouk University, Irbid, IL18.
2. N. Karousis, A. Kimbaris, K. Koriatopoulou, **G. Rotas**, G. Tsakonas, G. Varvounis, "The Synthesis of 6,11-Dihydro-5h-pyrrolo[1,2-c][1,3]benzodiazepines, Pyrrolo[2,1-c][1,4]benzodiazocin-6(5h)-ones and 1,5,10,11-Tetrahydro-4H-Pyrrolo[2,3-c][1,6]Benzodiazocin-4-ones with Potential Biological Interest", 2nd Eurasian Meeting on Heterocyclic Chemistry, "Heterocycles in Organic and Combinatorial Chemistry", September 14–17, **2002**, Novgorod the Great, Russia, IL10.
3. N. Karousis, A. Kimbaris, K. Koriatopoulou, **G. Rotas**, S. Skoulika, G. Tsakonas, G. Varvounis, "Novel Routes to Pyrrole Containing Heterocycles", 9th International Conference on Pure and Applied Heterocyclic Chemistry, December 11–14, **2004**, Sharm El-Sheikh, Egypt, KA-15, p. 25.
4. **G. Rotas**, G. Varvounis, "Synthesis of the novel pyrrolo[1,2-c][1.3.6]benzotriazocine ring system", 9th International Conference on Pure and Applied Heterocyclic Chemistry, December 11–14, **2004**, Sharm El-Sheikh, Egypt, IPA-6, p. 99.
5. N. Karousis, K. Koriatopoulou, **G. Rotas**, S. Skoulika, G. Tsakonas, P. Tsoungas, G. Varvounis, "Versatile Syntheses of Novel Polycyclic Heterocycles Derived from 1-, 2- or 3-substituted Pyrroles and 2-hydroxy naphthaldehyde" 9th National Conference on "Bioactive Heterocycles and Drug Discovery Paradigm", January 8–10, **2005**, Rajkot, Gujarat, India, IL-16, p. 59.
6. **G. Rotas**, N. Tagmatarchis, "Regioselective Triphenylamine-Directed Synthesis of C₆₀ Bis-Adducts", *2nd Organic Chemistry Workshop*, Athens, Greece, **2007**.
7. **G. Rotas**, N. Tagmatarchis, "Triphenylamine-based Fullerene Derivatives", *9th Greece-Cyprus Chemistry Conference*, Larnaka, Cyprus, **2007**.
8. **G. Rotas**, N. Tagmatarchis, "Tether-directed Bis-adducts vs Dimers of [60]Fullerene with Triphenylamine", *8th Biennial Workshop on Fullerenes and Atomic Clusters (IWFAC'2007)*, St. Petersburg, Russia, **2007**.

LIST OF PUBLICATIONS

1. **G. Rotas**, A. Kimbaris, G. Varvounis, "Synthesis of 5-alkyl(or aryl)pyrrolo[1,2-*a*]quinoxalin-4-(5*H*)-ones by denitrocyclisation of *N*-alkyl(or aryl)-1-(2-nitrophenyl)-1*H*-pyrrole-2-carboxamides. Evidence of a Smiles rearrangement" *Tetrahedron* **2004**, *60*, 10825.
2. **G. Rotas**, K. Natchkebia, N. Natsvlishvili, M. Kekelidze, A. Kimbaris, G. Varvounis, D. Mikeladze, "Action of a novel pyrrolo[1,2-*c*][1.3]benzodiazepine on the viability of Jurkat and neuronal/glial cells" *Bioorg. Med. Chem. Lett.* **2005**, *15*, 3220.
3. I. D. Petsalakis, N. Tagmatarchis, **G. Rotas**, G. Theodorakopoulos, "Theoretical Study on Triphenylamine-based Sensors of Dicarboxylic Acids", *J. Mol. Struct. — Theochem* **2007**, *807*, 11.
4. G. Pagona, **G. Rotas**, I. D. Petsalakis, G. Theodorakopoulos, A. Maigné, J. Fan, M. Yudasaka, S. Iijima, N. Tagmatarchis, "Soluble Functionalized Carbon Nanohorns", *J. Nanosci. Nanotechn.* **2007**, *7*, 3468.
5. H. Kuzmany, F. Hasi, W. Plank, Ch. Schaman, R. Pfeiffer, F. Simon, **G. Rotas**, G. Pagona, N. Tagmatarchis, "Raman Scattering from Nanomaterials Encapsulated into Single Wall Carbon Nanotubes", *J. Raman Spec.* **2007**, *38*, 704.
6. D. Arcon, M. Pregelj, P. Cevc, G. Rotas, G. Pagona, **N. Tagmatarchis**, C. Ewels, "Stability, Thermal Homolysis and Intermediate Phases of Solid Hydroazafullerene C₅₉HN", *Chem. Commun.* **2007**, 3386.
7. W. Plank, H. Kuzmany, F. Simon, T. Saito, S. Ohshima, M. Yumura, S. Iijima, **G. Rotas**, G. Pagona, N. Tagmatarchis, "Fullerene derivatives encapsulated in carbon nanotubes", *Phys. Status Solidi B* **2007**, *244*, 4074.
8. **G. Rotas**, A. S. D. Sandanayaka, Y. Ichihashi, N. Tagmatarchis, O. Ito, "(Terpyridine)copper(II)—Carbon Nanohorns: Metallo-Nanocomplexes for Photoinduced Charge Separation", *J. Am. Chem. Soc.* **2008**, *130*, 4725.
9. G. Pagona, **G. Rotas**, A. N. Khlobystov, T. W. Chamberlain, K. Porfyakis, N. Tagmatarchis, "Azafullerenes encapsulated within single-walled carbon nanotubes", *J. Am. Chem. Soc.* **2008**, *130*, 6062.
10. G. Mountrichas, G. Pagona, **G. Rotas**, N. Karousis, S. Pispas, N. Tagmatarchis, "Methodologies

for the Chemical Functionalization of Carbon Nanohorns”, *Journal of Nanostructured Polymers and Nanocomposites*, **2008, In Press**.

11. G. Pagona, G. Mountrichas, **G. Rotas**, N. Karousis, S. Pispas, N. Tagmatarchis, “Properties, Applications and Functionalization of Carbon Nanohorns”, *Int. J. Nanotechn.* **2008, In Press**.