

TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 4471

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Chimica

Scientist- in - charge: Professor Pierfausto Seneci

ANTONIA ANTONIOU

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	ANTONIOU
Name	ANTONIA
Date of birth	07.03.1989

PRESENT OCCUPATION

Appointment	Structure
-	-

EDUCATION AND TRAINING

Degree		Course of studies	University	year of achievement of the degree
Degree		Diploma in Chemistry (4-year studies, 240 ECTS-credits) 7.50/10, "VERY GOOD"	University of Patras, Patras, Greece	2010
Specialization		-	-	-
PhD		PhD in Organic/ Medicinal Chemisty	University of Patras, Patras, Greece	2017
Master		Master in Science in Medicinal Chemistry, "EXCELLENT"	University of Patras, Patras, Greece	2012
Degree of specialization	medical	-	-	-
Degree of specialization	European	-	-	-
Other		-	-	-



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of	Association	City
05.04.2014		European Peptide Society (EPS) https://www.eurpepsoc.com	Prato, Italy
25.11.2010		Association of Greek Chemists (EEX) https://www.eex.gr	Patras, Greece

FOREIGN LANGUAGES

Languages	level of knowledge
English	B2
German	B2

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2014-2015	16-month scholarship in a project related to my PhD thesis in the National Centre for Scientific Research "DEMOKRITOS" in Athens. My key role was the design, synthesis and characterization of a series of Taepeenin D analogs, suitable for structure activity relationship studies as Hedgehog Inhibitors. Moreover, I contributed to the writing of 2 scientific research articles and participated in international conferences, symposia and training schools.

TRAINING OR RESEARCH ACTIVITY

During my 4th year of my undergraduate studies and the obligatory experimental research project for my diploma thesis, I was trained in the use of lab equipment and synthetic experimental procedures and participated in the synthesis of polyamine conjugates, such as spermidine analogs of Kukoamine A and of Chloramphenicol.

Furthermore, I had the opportunity to improve my lab and research skills during my MSc studies. My postgraduate diploma thesis project involved the synthesis of unnatural amino acids, using natural amino acids as chiral templates. This project required several protection and deprotection procedures, as well as solution and solid phase synthesis. This work has been presented in two international symposia and part of it, regarding the chemoselective protection of glutathione and application to the synthesis of trypanothione is published in *The Journal of Organic Chemistry*.

Finally, during my PhD studies, I worked on a project regarding the synthesis of dehydroabietic acid derivatives as anticancer and antibacterial agents, suitable for structure activity relationship studies. At the same period, I worked also in another project of our research group regarding Minoxidil analogues and conjugates. Thus, I gained strong experience in organic synthetic procedures and modifications of natural products and acquired high skills in spectra interpretation and structure elucidation, using modern analytical methods, such as ¹H-NMR, ¹³C-NMR, 2D-NMR, ESI-MS, GC-MS and FT-IR. The results of this work are presented among my thesis in peer-reviewed journals (*Future Med.Chem., Med.Chem.Comm., Biorg. Med, Chem., Letters and Org.Lett.*) and in four international conferences.



PROJECT ACTIVITY

Year	Project	
2014-2015	"3069 - GliTerln: Gli-mediated transcription inhibitors based on furanoditerpenoid natura products" of Action Excellence II (16-month scholarship)	

PATENTS

CONGRESSES AND SEMINARS

Date	Title	Place
25-29.11.2018	30 th International Symposium on the Chemistry of Natural Products	Royal Olympic Hotel, Athens, Greece
	"Abietane diterpenes - high value natural precursors for the development of new antimicrobial agents."	
23-25.11.2015	Targeting Hedgehog Signaling in Cancer Stem Cells, COST Action CM1106	University of Lisbon, Lisbon, Portugal
	"Taepeenin D Derivatives Targeting The Hedgehog Pathway."	
26-27.03.2015	3 rd Working Group Meeting, COST Action CM1106	St. George Lycabettus Boutique Hotel, Athens, Greece
23-25.01.2015	16 th Hellenic Symposium on Medicinal Chemistry	Conference and Culture Center, University of Patras, Patras, Greece
	"Taepeenin D Derivatives Targeting The Hedgehog Pathway."	
19-20.01.2015	STEMCHEM - Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells	University of Barcelona, Barcelona, Spain
	"Taepeenin D Derivatives Targeting The Hedgehog Pathway."	
13-15.11.2014	1 st DDDD International Congress	Royal Olympic Hotel, Athens, Greece
	"Exploration of Structure Activity Relationships of Taepeenin D Derivatives Targeting The Hedgehog Pathway."	
12-17.05.2014	1 st Synthetic & Medicinal Chemistry Symposium	Department of Pharmacy, University of Patras, Patras, Greece
	"Synthesis of unnatural amino acids, using the readily available N-Trityl-L-aspartic acid-beta methyl ester."	
31.08- 05.09.2014	33 rd European Peptide Symposium	National Palace of Culture, Sofia,
	I) "Synthesis of Unnatural Amino Acids, Using the Readily Available N-Trityl-L-Aspartic Acid-Beta Methyl Ester", &	Bulgaria
	II) "Novel Trypanothione and Analogs	



	Sythesis Based on Chemical Modification of Glutathione"	
26-28.09.2013	5 th BBBB Intenational Conference	Metropolitan Hotel, Athens, Greece
	"Sythesis of Artemisinin Dimers And Their Biological Avaluation Against MCF7 Breast Cancer Cells"	
05.2013	2-Day Seminar Health and Safety in the Laboratory Area	Conference and Culture Center, University of Patras, Patras, Greece
09-10.05.2012	13 th International Conference on Medicinal Chemistry &	Conference and Culture Center, University of Patras, Patras, Greece
	1 st FP-7-SEE-DRUG Workshop on"From Chemical to Systems Biology: Peptide Synthesis and Protein Production"	
	"Synthetic Studies Towards Methodologies Leading to Novel Unnatural Amino Acids."	

PUBLICATIONS

Books

Articles in reviews (peer-review journals)

1) "Synthesis and structure-activity relationships of novel abietane diterpenoids with activity against Staphylococcus aureus", *Future Med.Chem.*, 11(24), 3109-3124, Future Science, **2019**

2) "Identification of GII-mediated transcription inhibitors through synthesis and evaluation of taepeenin D analogues", *Med.Chem.Comm.*, 7, 2328-2331, Royal Society of Chemistry, **2016**

3) "Chemoselective Protection of Glutathione in the Preparation of Bioconjugates: The Case of Trypanothione Disulfide", *J.Org.Chem.*, 81, 4353-4358, ACS Publications, **2016**

4) "Synthesis of minoxidil conjugates and their evaluation as HL-60 differentiation agents", *Bioorg.Med.Chem.Lett.*, 26, 1145-1150, Science Direct, **2016**

5) "A fast entry to funanoditerpenoid-based hedgehog signaling inhibitors: Identifying essential structural features", *Org.Lett.*, 16, 3344-3347, ACS Publications, **2014**

Congress proceedings

1) 30th International Symposium on the Chemistry of Natural Products, International Union of Pure and Applied Chemistry, Royal Olympic Hotel, Athens, Greece, 2018

2) Targeting Hedgehog Signaling in Cancer Stem Cells, European Cooperation in Science and Technology (COST Action CM1106), University of Lisbon, Lisbon, Portugal, 2015

3) 3rd Working Group Meeting, Chemical Aprroaches to Targeting Drug Resistance in Cancer Stem Cells, European Cooperation in Science and Technology (COST Action CM1106), St. George Lycabettus Boutique Hotel, Athens, Greece, 2015

4) 16th Hellenic Symposium on Medicinal Chemistry, European Federation for Medicinal Chemistry (EFMC), Conference and Culture Center, University of Patras, Patras, Greece, 2015

5) Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells, European Cooperation in Science and Technology (COST Action CM1106), University of Barcelona, Barcelona, Spain, 2015



6) 1st DDDD International Congress, European Federation for Medicinal Chemistry (EFMC) & European Federation for Pharmaceutical Science (EUFEPS), Royal Olympic Hotel, Athens, Greece, 2014

7) 1st Synthetic & Medicinal Chemistry Symposium, University of Patras, Patras, Greece, 2014

8) 33rd European Peptide Symposium, European Peptide Society (EPS), National Palace of Culture, Sofia, Bulgaria, 2014

9) 5th BBBB Intenational Conference, European Federation for Pharmaceutical Science (EUFEPS), Metropolitan Hotel, Athens, Greece, 2013

10) 13th International Conference on Medicinal Chemistry, University of Patras, Conference and Culture Center, University of Patras, Patras, Greece, 2013

OTHER INFORMATION

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Friedrichshafen, 18.12.2019

SIGNATURE