



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
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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 Chemistry	University of Patras, Patras, Greece	2017
Master	Master in Science in Medicinal Chemistry, "EXCELLENT"	University of Patras, Patras, Greece	2012
Degree of medical specialization	-	-	-
Degree of European specialization	-	-	-
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 Taepenin 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 post-graduate 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 $^1\text{H-NMR}$, $^{13}\text{C-NMR}$, 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 - GliTerIn: Gli-mediated transcription inhibitors based on furanoditerpenoid natural products" of Action Excellence II (16-month scholarship)

PATENTS

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CONGRESSES AND SEMINARS

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



	Synthesis Based on Chemical Modification of Glutathione"	
26-28.09.2013	5 th BBBB International Conference "Synthesis of Artemisinin Dimers And Their Biological Avaluation Against MCF7 Breast Cancer Cells"	Metropolitan Hotel, Athens, Greece
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 & 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."	Conference and Culture Center, University of Patras, Patras, Greece

PUBLICATIONS

Books
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Articles in reviews (peer-review journals)
1) "Synthesis and structure-activity relationships of novel abietane diterpenoids with activity against <i>Staphylococcus aureus</i> ", <i>Future Med.Chem.</i> , 11(24), 3109-3124, Future Science, 2019
2) "Identification of Gli-mediated transcription inhibitors through synthesis and evaluation of taepeenin D analogues", <i>Med.Chem.Comm.</i> , 7, 2328-2331, Royal Society of Chemistry, 2016
3) "Chemoselective Protection of Glutathione in the Preparation of Bioconjugates: The Case of Trypanothione Disulfide", <i>J.Org.Chem.</i> , 81, 4353-4358, ACS Publications, 2016
4) "Synthesis of minoxidil conjugates and their evaluation as HL-60 differentiation agents", <i>Bioorg.Med.Chem.Lett.</i> , 26, 1145-1150, Science Direct, 2016
5) "A fast entry to funanoditerpenoid-based hedgehog signaling inhibitors: Identifying essential structural features", <i>Org.Lett.</i> , 16, 3344-3347, ACS Publications, 2014

Congress proceedings
1) 30 th 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) 3 rd Working Group Meeting, Chemical Approaches 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) 16 th 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



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| 6) 1 st DDDD International Congress, European Federation for Medicinal Chemistry (EFMC) & European Federation for Pharmaceutical Science (EUFEPS), Royal Olympic Hotel, Athens, Greece, 2014 |
| 7) 1 st Synthetic & Medicinal Chemistry Symposium, University of Patras, Patras, Greece, 2014 |
| 8) 33 rd European Peptide Symposium, European Peptide Society (EPS), National Palace of Culture, Sofia, Bulgaria, 2014 |
| 9) 5 th BBBB International Conference, European Federation for Pharmaceutical Science (EUFEPS), Metropolitan Hotel, Athens, Greece, 2013 |
| 10) 13 th International Conference on Medicinal Chemistry, University of Patras, Conference and Culture Center, University of Patras, Patras, Greece, 2013 |

OTHER INFORMATION

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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