

## PERSONAL DATA

Name

**KORINA MANOLIDI**

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## EDUCATION

**2014 – Today**

NSCR Democritos - National and Kapodistrian University of Athens, Department of Chemistry, Doctorate: "Method development for the analysis of cyanotoxins by liquid chromatography- mass spectrometry"

**2011 – 2014**

National and Kapodistrian University of Athens, Department of Chemistry, Master's degree: "**Chemical Analysis- Quality Control**". Grade: Excellent

**2005 – 2011**

National and Kapodistrian University of Athens, Department of Chemistry, Major Degree: **Chemistry**. Grade: Very Good

**2008 – 2009**

National and Kapodistrian University of Athens, Department of Chemistry, Section of Industrial Chemistry. Minor Degree: **Oenology**

**2002 – 2005**

Private School "Alkinoos", Corfu, Greece

Graduation with an overall grade 18.6/20

## Foreign Languages

English

1) Proficiency, University of Michigan  
2) IELTS (International English Language Testing System), University of Cambridge. Grade: 7/9

French

DELF1 (A<sub>1</sub>-A<sub>4</sub>)

## Knowledge and use of computers

ECDL

Ενότητες:

- 1) Concepts of IT,
- 2) Windows, 3) Microsoft Word,
- 4) Excel, 5) Access,
- 6) PowerPoint, 7) Internet

## **PROFESSIONAL EXPERIENCE**

**10/2014- Today**

### **Doctoral research at NCSR- Demokritos**

"Method development for the analysis of cyanotoxins by liquid chromatography- mass spectrometry"

**3/2014- 5/2014**

### **Quality control of medicines in pharmaceutical company "FAMAR" Avlonas, Greece.**

Analyses of bulk and finished products

- Identification and assay of the active ingredients by liquid chromatography (HPLC), thin layer chromatography (TLC), titration, extraction and spectrometry.
- Purity tests: Identification and assay of excipients by HPLC and TLC, determination of pH and loss on drying and appearance of solution
- Stability tests by HPLC and TLC
- Other identification tests: Determination of melting point, density, pigment reactions of molecule
- Other tests: Determination of viscosity, consistency, moisture, particle size (particle diameter by microscopy), refractive index, dissolution and disintegration tests, mass and content uniformity.

**3/2011 – 7/2011**

**Internship at the General Chemical State Laboratory in Athens, Greece, D' Division of Chemical Services, Section C': Alcoholic Drinks and Honey.** (Accredited laboratory according to ELOT EN ISO / IEC 17025).

Determination of:

- 14C content in alcoholic drinks by liquid scintillation
- Alcoholic strength in spirits by electronic densitometer
- origin of alcohol, sugars and honey by Isotope Ratio Mass Spectrometry (IRMS)
- diastase activity in honey with Phadebas by Spectrometry
- hydroxymethylfurfural (HMF) in honey by Spectrometry
- electric conductivity and moisture in honey

**2005 – 2007**

### **Participation in promotion programs**

Promotion of the program "Growing up" of the Hellenic PostBank,

Research commissioned by "DATA POWER", a market and opinion research company.

## STUDIES - PROJECTS

### Master thesis

(Vienna, Austria)

**10/2012 – 04/2013**

### **Method development for the analysis of natural organic dyestuffs by HPLC / DAD and HPLC / MS.**

An analytical method has been developed that allows the determination of relevant organic compounds that represent or are associated with natural organic dyestuffs as these have been used in antiquity to dye wool, other fibers and textiles. Starting from standard solutions, HPLC separations have been developed that allow the characterization of these compounds by HPLC/DAD and HPLC/MS with good resolution and in reasonable time.

In parallel to this work, practical experiments were performed in which wool fibers were dyed based on historical and modern recipes. Using these fibers, extraction experiments were performed, which aims at preserving the integrity of the natural organic dyestuff as good as possible, while being as efficient as possible at the same time.

Finally, ten different samples obtained from museums, were extracted with the most efficient extraction methods and analyzed with the optimized HPLC/DAD/MS method.

It was carried out in Vienna University of Technology, Institute of Chemical Technologies and Analytics, Austria.

Supervisors: Prof. Erwin Rosenberg and Dr. Nikolaos S. Thomaidis

### Undergraduate thesis

(Porto, Portugal)

**02/2010 – 07/2010**

### **Preparation and Analysis of sunscreens**

Preparation and analysis of sunscreen formulations which contain one of the two UV filters (BMDM και EHMC). It was carried out in the University of Pharmacy, Porto, (FFUP-Faculdade de Farmácia da Universidade do Porto), Portugal.

Analysis of the emulsions by High Performance Liquid Chromatography (HPLC) and liquid chromatography coupled with mass spectrometry (LC-MS). It was carried out in the University of Sciences, Chemistry and Biochemistry Department, Porto, (FCUP- Faculdade de Ciências da Universidade do Porto- Departamento da Química), Portugal.

Supervisors: Dr. Joaquim C. G. Esteves da Silva and Dr. Michael Scoullou

## SCHOLARSHIPS- AWARDS

**10/2012 – 04/2013**

Erasmus / Socrates Scholarship provided by the State Scholarships Foundation (I.K.Y. Ίδρυμα Κρατικών Υποτροφιών).

Vienna University of Technology, Institute of Chemical Technologies and Analytics, Austria

**02/2010 – 07/2010**

Erasmus / Socrates Scholarship provided by the State Scholarships Foundation (I.K.Y. Ίδρυμα Κρατικών Υποτροφιών).

University of Porto, Portugal

## SEMINARS- WORKSHOPS

**20/6/2014**

Workshop on beer, carried out in the General Chemical State Laboratory of Athens, Greece

**15-19/9/2013**

8<sup>th</sup> International Conference on Instrumental Methods of Analysis Modern Trends and Applications (**IMA-2013**), carried out in Thessaloniki, Greece.

Participation with poster related to master thesis (Method development for the analysis of natural organic dyestuffs by HPLC / DAD and HPLC / MS.)

**20/5/2011**

Educational Seminar: Theory and Methods of Metrology. It took place at the General Chemical State Laboratory in Athens, Greece.

**9/7/2007**

Workshop: Waste Utilization for the Benefit of the Citizen's Everyday Life. It took place in the Exhibition Centre of Peristeri, Athens, Greece.

## OTHER SKILLS

**Communication**

Well- developed communication skills

**Organizational skills**

Professional experience in accredited laboratory according to ELOT EN ISO/ IEC 17025