

Curriculum Vitae



Tsakiri A. Maria

Pharmacist, M.Sc.

Laboratory of Pharmaceutical Nanotechnology

Section of Pharmaceutical Technology

Department of Pharmacy

School of Health Sciences

National and Kapodistrian University of Athens

Personal Details

Name: Maria
Surname: Tsakiri
Date of Birth: 11 August 1995
Nationality: Hellenic
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Education

4/2021 - Present **PhD Student**
National and Kapodistrian University of Athens (UoA),
School of Health Sciences, Department of Pharmacy,
Section of Pharmaceutical Technology

9/2019 – 9/2020 **Interdisciplinary Master of Science in Nanomedicine**
National and Kapodistrian University of Athens (UoA),
School of Health Sciences, School of Medicine and
Department of Pharmacy
ECTS: 60, **Grade:** 8.49
Thesis: Evaluation of nano-systems as vaccine platforms
against infectious diseases. Division of Pharmaceutical
Technology. **Supervisor:** Prof. C. Demetzos, **Grade:** 10

9/2014 – 7/2019 **Master of Pharmacy**
National and Kapodistrian University of Athens (UoA),
School of Health Sciences, Department of Pharmacy
ECTS: 300, **Grade:** 7.18
Thesis: Development and evaluation of physicochemical
properties of chimeric liposomal nanosystems with
incorporated triblock copolymer Poloxamer P407. Division

of Pharmaceutical Technology. **Supervisor:** Prof. C. Demetzos, **Grade:** 10

Research Interests

- Pharmaceutical Technology and Pharmaceutical Nanotechnology
- Design and development of Drug or Antigen Delivery nano Systems
- Preparation of Lipid Nanoparticles
- Physicochemical, morphological and thermodynamic evaluation of nano Systems
- Biomaterial (i.e., peptide and nucleic acid) loading protocols
- 3-D printing

Techniques:

- **Light Scattering Techniques:** Dynamic and Electrophoretic Light Scattering
- **Thermal Analysis Techniques:** Differential Scanning Calorimetry
- **Chromatography Techniques:** Planal (Thin-layer Chromatography), Column (Size Exclusion Chromatography)
- **Spectroscopy:** Fluorescence and Ultraviolet-Visible (UV/Vis) spectroscopy
- **3-Dprinting:** Fused Deposition Modeling

Grants and Fellowships

- ESPA 2014-2020 three-month Internship grant for training at **401 General Military Hospital of Athens** (4-7/2019)

Oral Presentations in Greek Conferences

1. Quantum Biology and Nanomedicine. **Maria Tsakiri**, Foivos-Sokratis Lazaris, Dimitrios Athanasopoulos. 3rd Symposium of Nanotechnology in Health Sciences (HSnanoHs), February 8, 2020, Megaron, Athens, Greece.

Poster Presentations in International Conferences

1. Human-derived extracellular vesicles (EVs) as anti-tau VHH delivery platforms: a proposal. **Maria Tsakiri**, Nikos Naziris, Dimitrios Kapogiannis, Vasiliki Machairaki, Costas Demetzos. Alzheimer's Association International Congress Satellite Symposium, May 12-13, 2021, Athens, Greece.

Training and Lifelong Learning

1. Online webinar "Towards a Body-on-a-Chip: The value of Multi-Organ MPS for Human-Relevant Drug Assessment". Technology Networks, March 24, 2021.
2. Online webinar "Designing Lipid Nanoparticle Systems for COVID-19 vaccines". Technology Networks, January 28, 2021.
3. Seminar on "Artificial Intelligence in Medicinal Illustration: Applications, perspectives, ethical and philosophical issues". October 12, 2019, Central building of National and Kapodistrian University of Athens, Athens, Greece.
4. 11^o Panhellenic Congress of the Hellenic Society of Biomaterials. November 23-24, 2018, National Center for Scientific Research "Demokritos", Athens, Greece.
5. Pharmaceutical Athenian Congress (PharmACon). October 20-21, 2018, War Museum, Athens, Greece. **Case Study:** Development of targeted anti-cancer drugs- inhibitors of protein kinases: Therapeutic

approach of metastatic melanoma. **Case Study:** Advanced Therapeutics.

6. Workshop on Medicines during breastfeeding. May 17, 2018, Panepistimioupolis Zografou, Athens, Greece.
7. 7th Regular Congress of Metrology. May 11-12, 2018, War Museum, Athens, Greece.
8. Workshop on “Pharmaceutical Nanotechnology: Liposomal Anticancer Nanomedicines in Clinical Practice”. November 3, 2017, National and Kapodistrian University of Athens, Athens, Greece.
9. 18th Panhellenic Pharmaceutical Congress. October 6-8, 2017, Zappeion, Athens, Greece.
10. 2nd Congress of Pharmacogenomics and Personalized Diagnosis and Therapy. November 4-6, 2016, Auditorium of Physiology “G. Kotzias”, Athens, Greece.

Volunteer in Conference Organization

1. **IT-Volunteer** at Pharmaceutical Athenian Congress (PharmACon). October 20-21, 2018, War Museum, Athens, Greece.
2. **IT-Volunteer** at 7th Regular Congress of Metrology. May 11-12, 2018, War Museum, Athens, Greece

Member of scientific societies

- Member of Hellenic Society of Biomaterials (2018- 2019)
- Member of Greek Pharmaceutical Students Federation (2017- Present)
- Member of European Pharmaceutical Students Association (2017-Present)

Internships

4/2019 – 7/2019 **401 General Military Hospital of Athens** with participation in the activities of the **Laboratory of Pharmacokinetic and Toxicology** and the **Laboratory of Preparation of Cytotoxic Products**.

10/2018 – 4/2019 **Community Pharmacy** Γ. Λυκούδης, Voula, Attica, Greece
Electronic prescription system, preparation of galenic formulation

7/2018 – 10/2018 **401 General Military Hospital of Athens** with participation in electronic prescription control actions, hospital units drug ordering etc.

Core Qualifications

Languages
Greek: Native Language
English: **C2** (Proficiency, University of Michigan)
French: **B1** (DELF)

IT
Experienced in Microsoft Windows and Mac OS
Proficient user of Microsoft Office (Word, Excel, PowerPoint)
Proficient user of iWork (Pages, Numbers, Keynote)