

## Dr. Sotiria CHAITIDOU

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### PROFESSIONAL EXPERIENCE / RESEARCH ACTIVITY

▪ **January 2009 – To date**, PHARMATHEN SA, Pharmaceutical Industry, holding several roles in Research & Development

- Vice President R&D / Innovative Formulations from August 2022
- Director of Innovative Formulations R&D Dpt for the period June 2018 – July 2022 and as Head of the same Dpt for the period April 2017 – May 2018; main responsibilities: leading the development of specialty generics and innovative formulations for long acting injectables (LAIs).
- Formulation manager at Innovative Formulations R&D Dpt for the period November 2013 – March 2017 responsible for the development (analytical, formulation & process) of specialty generics (LAI products in the form of polymeric micro- and nano- particles, micro- and nano-suspensions, hydrogels), technology transfer of LAIs from small to industrial scale and establishment of custom manufacturing facilities.
- Senior research scientist in the scientific Affairs Dpt for the period January 2009 - October 2013; main responsibilities: technical feasibility assessments for new developments and third party collaborations and proposals for Life-Cycle Management, technical support on the development of Generic and Innovative Products, management of collaborations with research institutes and universities and scientific support on Intellectual Property and Regulatory affairs.

▪ **November 2004 – December 2008**, Postgraduate researcher at National Centre for Research & Technology-Hellas (CERTH), Laboratory of Polymer Reaction Engineering, Chemical Process Engineering Research Institute

- ✓ Experimental expertise on the synthesis and characterization of functionalized polymeric micro- and nano-particles, drug delivery systems for oral and pulmonary administration, molecularly imprinted polymers and hybrid organic/inorganic nanoparticles
- ✓ Preparation of European proposals for the 6<sup>th</sup> and 7<sup>th</sup> Framework Programmes for research and technological developments and Participation in several European and national research projects: STREP, NMP4-CT-2003-001428: "Nano-capsules for Targeted Controlled Delivery of Chemicals", STREP, NMP4-CT-2005-516981: "Nanoimprint technologies for Selective Recognition and Separation", IP, NMP4-CT-2006-026723: "Nanoscale Functionalities for Targeted Drug Delivery of Biopharmaceuticals", Pythagoras II (General), 80901: "Synthesis of Advanced Nanoparticulate Systems for Pharmaceutical and Biomedical Applications"

▪ **September 2003 – October 2004**, Research assistant at the Department of Chemistry of Aristotle University of Thessaloniki, Laboratory of Biochemistry & Biotechnology

- ✓ Experimental expertise on Recombinant DNA technology, Molecular Biology Methods, Protein overexpression and protein purification, Enzyme immobilization

## EDUCATION

- December 2004 – November 2008

### **PhD in Chemical Engineering**

Research Topic: *“Synthesis of molecularly imprinted polymeric micro- and nanoparticles for the selective recognition of peptides”*

Laboratory of Polymer Reaction Engineering, Department of Chemical Engineering  
Engineering School, Aristotle University of Thessaloniki

Supervisor: Prof. C. Kiparissides

- May 2003 – October 2004

### **Interdisciplinary MSc in “Nanosciences & Nanotechnologies”**

Specialization in **Nanobiotechnology**

Grade: 9.13 out of 10 (**Distinction**)

Research topic: *“Enzyme immobilization on solid supports for applications in Nanobiotechnology”*

Laboratory of Biochemistry & Biotechnology, Department of Chemistry, Aristotle University of Thessaloniki , Supervisor: Prof. D. Kyriakides

- October 1997 – October 2002

### **Diploma in Chemical Engineering**

Grade: 9.00 out of 10 (**Distinction**)

Aristotle University of Thessaloniki, Engineering School, Department of Chemical Engineering

Thesis: *“Experimental study of tomato juice spray drying”*

## HONORS / AWARDS

- Scholarship from **the Public Benefit Foundation Alexander S. Onassis**

- for doctoral studies in Chemical Engineering (October 2005 – November 2008)
- for postgraduate studies in Nanosciences and Nanotechnologies (October 2003-October 2004)

- Awards from **the State Scholarships Foundation (IKY)**

- for academic excellence in the Department of Chemical Engineering, Aristotle University of Thessaloniki, for the academic years 1999-2000 and 2001-2002
- for being 4th at the Greek Entrance Examinations among the candidates for the Department of Chemical Engineering at AUTH (1997)

- Awards from the **Technical Chamber of Greece (TEE)**

- for academic excellence for the academic years 1998-1999, 1999-2000 and 2001-2002.

## MAIN PATENTS

- WO2014202214, Preparation of polylactide-polyglycolide microparticles having a sigmoidal release profile.
- WO2015149820, Preparation of peptide loaded PLGA microspheres with controlled release characteristic.
- WO2014005606, Stable injectable pharmaceutical composition of neurokinin 1 receptor antagonist and process for preparation thereof.

## PUBLICATIONS IN SCIENTIFIC JOURNALS

- Siafaka P., Betsiou M., Tsolou A., Aggelou E., Agianian B., Koffa, M., Chaitidou S., Karavas E., Avgoustakis K., Bikiaris D. Synthesis of pegylated folate-polyester nanoparticles encapsulating ixabepilone for targeting folate receptor overexpressing breast cancer cells. Submitted for publication
- P. Alexiou, A. Papakyriakou, E. Ntougkos, C. Papaneophytou, F. Liepouri, A. Mettou, I. Katsoulis, A. Maranti, K. Tsiliouka, A. Strongilos, S. Chaitidou, E. Douni, G. Kontopidis, G. Kollias, E. Couladourous, and E. Eliopoulos, "Rationally Designed Less Toxic SPD-304 Analogs and Preliminary Evaluation of Their TNF Inhibitory Effects", Arch. Pharm. Chem. Life Sci. 2014, 347, Pages 1–8
- O. Kotrotsiou, S. Chaitidou, C. Kiparissides, "On the Synthesis of Peptide Imprinted Polymers by a Combined Suspension-Epitope Polymerization Method", Materials Science and Engineering: B, Volume 165, Issue 3, 15 December 2009, Pages 256-260
- O. Kotrotsiou, S. Chaitidou, C. Kiparissides, "Boc-L-Tryptophan Imprinted Polymeric Microparticles for Bioanalytical Applications", Materials Science and Engineering: C, Volume 29, Issue 7, 31 August 2009, Pages 2141-2146
- S. Chaitidou, O. Kotrotsiou, C. Kiparissides, "On the Synthesis and Rebinding Properties of  $[\text{Co}(\text{C}_2\text{H}_3\text{O}_2)_2(\text{z-Histidine})]$  Imprinted Polymers Prepared by Precipitation Polymerization", Materials Science and Engineering: C, Volume 29, Issue 4, 5 May 2009, Pages 1415-1421.
- S. Chaitidou, O. Kotrotsiou, K. Kotti, O. Kammona, M. Bukhari and C. Kiparissides, "Precipitation Polymerization for the Synthesis of Nanostructured particles", Materials Science and Engineering B, 152 (2008), 55-59.
- O. Kotrotsiou, S. Chaitidou, M. Liakopoulou-Kyriakides and C. Kiparissides, "Molecularly Imprinted Polymers for Selective Recognition of Biomolecules", Journal of Nanostructured Polymers and Nanocomposites, 3 (2007), 35-45.
- C. Kiparissides, S. Alexandridou, K. Kotti and S. Chaitidou, "Recent Advances in Novel Drug Delivery Systems", Journal of Nanotechnology Online, 2 (March 2006).
- R. Papi, S. Chaitidou, F. Trika and D. Kyriakidis, "Encapsulated Escherichia coli in alginate beads capable of secreting a heterologous pectin lyase", Microbial Cell Factories, 4 (2005), 35-42.