europass Curriculum vitae

PERSONAL INFORMATION

Cristian Peptu

Zapodeni, 737625 Vaslui (Romania)

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STUDIES APPLIED FOR

Postdoctoral

WORK EXPERIENCE

1 Jul 2014–Present — Postdoctoral researcher - WP leader

Institute of Macromolecular Chemistry "Petru Poni", Iasi (Romania)

Part-time contract

Liposomal-cyclodextrin based formulations for transdermal pain therapy (NANODERMA)

PN-II-PT-PCCA-2013-4-2210, contract number 276/2014

Duties: Design and preparation biocompatible and efficient polyester modified cyclodextrins; formulation of lidocaine encapsulated into modified cyclodextrins

4 Oct 2011–4 Oct 2013 — Postdoctoral researcher - Principal investigator

Institute of Macromolecular Chemistry "Petru Poni", Iasi (Romania)

Part-time contract

Cyclodextrins – a "green chemistry" route to aliphatic polyesters

CNCS – UEFISCDI, project number PN-II-RU-PD-2011-3-0127

Duties: Synthesis of cyclodextrin-oligoesters and characterization through mass spectrometry and NMR

2 Nov 2009–Present — Researcher - Responsible of the mass spectrometry laboratory

Institute of Macromolecular Chemistry "Petru Poni", Iasi (Romania)

Full-time contract

Duties: liquid chromatography mass spectrometry characterization of polymers; inclusion complexes based on cyclodextrins and cyclodextrin derivatives; synthesis of polymers; mass spectrometer maintenance.

1 Oct 2006–1 Oct 2009 — Researcher

"Jan Dlugosz" University of Czestochowa, Czestochowa (Poland)

Full employment as researcher at "Jan Dlugosz" University of Czestochowa, Poland for 33 months and Secondment at Akzo Nobel Chemicals, Arnhem, Netherlands for 3 months

Marie Curie Early Stage Training Fellowship of the European Community's Sixth Framework Program under the contract number MEST-CT-2005-021029

Duties: specially synthesized model copolymers with suitable end groups, required molecular weight and polydispersity; polymer characterization through classical methods like GPC, NMR and MALDI-TOF-MS techniques; ESI-MS multistage analysis of the copolymers to gather insight in the fundamentals of the fragmentation processes; liquid chromatography with mass spectrometry detection for copolymer analysis.

1 Oct 2004–1 Oct 2006 — PhD student

Technical University "Gheorghe Asachi" of Iasi, Iasi (Romania)

Duties: synthesis and characterization of functionalsiloxane polymers and copolymers

DEA student

Universite de Mulhouse, Mulhouse (France)

Industrial scholarship

Duties: chemistry of colloids; nanoparticles preparation; characterization of polymers.

EDUCATION AND TRAINING

1 Oct 1996–1 Oct 2002

Bioengineer Degree in Biomaterials and Prosthetics

EQF level 6

University of Medicine and Pharmacy, Faculty of Bioengineering, Iasi (Romania)

Licensed in Medical Bioengineering

Specialised in Biomaterials and Prosthetic Thechnologies

1 Oct 2003–1 Oct 2004

"Diplome d'Etude Approfondies" DEA (master) in Chemistry

EQF level 7

Universite de Mulhouse, Mulhouse (France)

Macromolecular chemistry

1 Oct 2005–1 Oct 2006

Master in Chemistry

EQF level 7

The "Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering, Iasi (Romania)

Polymeric Biomaterials

1 Nov 2004–31 Jan 2011

Doctor in Chemical Engineering

EQF level 8

The "Gheorghe Asachi" Technical University of Iasi, Iasi (Romania)

Thesis title: Synthesis of biodegradable model copolymers and their characterization at molecular lavel through mass spectrometry

PERSONAL SKILLS

Mother tongue(s): Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
French	B2	B2	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- good communication skills at international level gained during my academic experience in different research groups in Romania, France, Poland, Netherlands

- good skills for oral presentations in scientific area certified by the conferences where I participated with oral and poster presentations

Organisational / managerial skills

- leadership - responsible of the mass spectrometry laboratory at the current place of work

- project management - coordinator of a postdoctoral project ("Cyclodextrins– a “green chemistry” route to aliphatic polyesters" - Romanian CNCS –UEFISCDI, project number PN-II-RU-PD-2011-3-

0127) and work package leader ("Liposomal-cyclodextrinbased formulations for transdermal pain therapy" PN-II-PT-PCCA-2013-4-2210,contract number 276/2014)

Job-related skills

Experience:

- chemistry of colloids; nanoparticles synthesis; characterization of polymers (DEA)
- inclusion complexes based on cyclodextrins and cyclodextrin derivatives; synthesis of cyclodextrin-conjugated polyesters; synthesis and characterization of polysiloxanes (current job)
- general knowledge of polymer characterization methods: DSC, XRD, XPS, SEM, TEM, AFM, FTIR, etc. (current job)
- specially synthesized model copolymers with suitable end groups, required molecular weight and polydispersity (PhD)
- polymer characterization through classical methods like GPC, NMR and MALDI-TOF-MS techniques (PhD and current job)
- ESI-MS multistage analysis of the copolymers to gather insight in the fundamentals of the fragmentation processes (PhD and current job)
- liquid chromatography with mass spectrometry detection for copolymer analysis (PhD and current job)

Computer skills

- good command of office suite (word, excel, power point)
- use of ACD/Labs (general chemistry) and Mass Hunter, Bruker Daltoniks (mass spectrometry) softwares
- use of scientific literature research engines: SCOPUS and WEB OF SCIENCE

Driving licence

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ADDITIONAL INFORMATION

Publications

Published 15 papers in ISI journals and 2 books chapters - 3 papers as first author and 2 papers as corresponding author.

Hirsch index is 5 and the total number of citations is 89 for 15 ISI papers (according to Scopus - Author ID: 25960275100).

Researcher ID : B-5827-2011

Reviewer for 3 journals: *Rapid Communications in Mass Spectrometry*, *Designed Monomers and Polymers* and *Journal of Hydrogels*