



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Raluca Petronela Dumitriu**  
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Nationality Romanian  
Date of birth 28.05.1975  
Gender female

### Education and training

#### Educational background

**October 1995 – June 1999 - B.Sc. degree:** Faculty of Chemistry, Section “Technological Biochemistry”, “Al. I. Cuza” University, Iași, Romania. Full-Time Attendance.  
Title of project for chemist's degree: “Immunoenzymatic analysis methods in clinical biochemistry”, supervised by Prof. dr. D.C.Cojocaru from Biology Department, “Al I. Cuza” University of Iasi, June session, 1999.

**October 1999 – July 2001 - M.Sc. degree:** Faculty of Chemistry, Specialty “Enzymology and Biotechnology”, “Al. I. Cuza” University, Iași, Romania. Full-Time Attendance.  
Title of project for Master Diploma: “Study of the Cellulases Action on Modified Carboxymethylcellulose”, supervised by Prof. dr. D.C.Cojocaru from “Al.I.Cuza” University of Iasi and Dr. Cornelia Vasile from “P. Poni” Institute of Macromolecular Chemistry, Iasi/Ass.Prof. at “Al.I.Cuza” University of Iasi, July session, 2001.

**November 2010 – PhD degree:** Romanian Academy Research Institute - “P. Poni” Institute of Macromolecular Chemistry, Iași, Romania  
Thesis title: “Biodegradation of Some Binary and Complex Polymer Systems”, supervised by CS I Dr. Cornelia Vasile

**May 2014 – December 2015 – Postdoctoral stage** (20 months) at University Politehnica of Bucharest, Bucharest, Romania  
Project title: “New bioactive and nanostructured polymeric materials for biomedical and / or food industry applications”, financed by Contract No. POSDRU/159/1.5/ S/132 397 - Excellence in research through doctoral and postdoctoral scholarships (ExcelDOC), funded by the European Social Fund Operational Programme Human Resources Development 2007-2013.

**National and international training**

**July 3-15, 2000** - International Summer School "*Biologie et pathologie moléculaires. Biotechnologies*", organized by "Al. I. Cuza" University of Iasi, Iasi, Romania.

**June-November 2001** - Postgraduate course "*Structure of organic substances and polymers: Theoretical aspects and investigation methods*", Romanian Academy, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania.

**May 23<sup>rd</sup>, 2007** - Seminar "Excellence in Analytical Chemistry", Bucharest, Romania

**August – September 2007** - Scientific research mission (1 month) in the field of smart polymeric materials, under COST P12 "Structuring of Polymers" Program framework at Polymer Science Centre, Centre for Advanced Microscopy, University of Reading, Reading, UK.

**February 28<sup>th</sup> – March 2<sup>nd</sup> 2011** - International Training School "Synthesis of hybrid organic-inorganic nanoparticles for innovative nanostructured composites", under COST MP0701 Program framework, organized by Faculty of Engineering of the University "Federico II" Naples, Naples, Italy.

**March 2011** – Scientific demonstrative visit (SDV-3 weeks) in the field of nanostructured polymeric materials, under FP7 Napolynet Project, at Centre for Advanced Microscopy, University of Reading, Reading, UK.

**January – March 2012** – Scientific research short stage (5 weeks) in the field of polymeric materials for food packaging applications, under COST FA 0904 "Eco-sustainable Food Packaging based on Polymer Nanomaterials" Action framework, at Centre for Advanced Microscopy, University of Reading, Reading, UK.

**November 2012** – Scientific research short stage (2 weeks) under CAPACITATI Program of Bilateral Cooperation Romania-Greece no. 571/2012: "Safe, Health-promoting, Green Food Packaging", at T.E.I. of Western Macedonia, Kozani, Greece.

**August – September 2019** – Scientific research training (1 month) on microfluidic techniques framed within the Project "Volatolomics test for non-invasive diagnosis of bovine tuberculosis in cattle (bTB-Test)" founded by H2020-MSCA-RISE-2017 (ref. 777832), at Elvysys Microfluidic Innovation Center, Paris, France.

**Work experience****Researcher / Research Activities**

Dates Since 2002 – present

Occupation Researcher

Main activities and responsibilities Research related activities: experimental work, data processing and interpretation, writing scientific papers and project proposals, participation at scientific conferences with oral communications and posters

Name and address of employer "PETRU PONI" Institute of Macromolecular Chemistry, 41-A, Grigore Ghica Voda Alley, 700487 Iasi, Romania

Type of business or sector Research

Main area of research Research activities in the field of polymeric materials intended for medical, pharmaceutical, food packaging applications; synthesis and physico-chemical characterization of multicomponent polymeric systems (IPNs/hydrogels, nanocomposites); stimuli-responsive polymers and polymeric systems

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (\*)

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	B2	Independent user

(\*) Common European Framework of Reference for Languages

Social skills and competences	Good communication skills and teamwork ability developed by working in various research teams of national and international projects and during the short-term fellowships spent abroad in UK, Greece and France, being in touch with people from different cultures. Responsibility and problem solving oriented, with creative thinking, attention to details and good analytical skills.
Technical skills and competences	Advanced knowledge in the following domains: <ol style="list-style-type: none"> <li>1. Dissolution tests for drug delivery applications and migration testing of active components from materials intended for food packaging applications; kinetics of active components release</li> <li>2. Rheology of polymer solutions, blends, colloidal suspensions, emulsions, gels</li> <li>3. Stimuli-responsive behaviour (temperature, pH) investigation of polymers and polymeric materials</li> <li>4. Antioxidant activity evaluation (DPPH, ABTS tests)</li> <li>5. Biodegradability of polymeric materials (enzymatic hydrolysis)</li> </ol>
Computer skills and competences	Competent with Microsoft Office (Word, Excel, PowerPoint), OriginPro8.5, ImageJ, Photoshop programs
<b>Publications</b>	32 published papers in international scientific journals (23 papers ISI indexed), one book as coauthor, 6 book chapters, 2 national and 1 international patents awarded, 3 lectures and 30 oral communications presented at national and international conferences, participant in 4 international/bilateral projects obtained by competition and in 17 national projects from which 2 as project director, participant and 1 MC member in COST projects. h-index: 10 with a total of 268 citing articles/248 without self citations.