

PERSONAL INFORMATION

Elena Olaret



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Date of birth 09/01/1993 | Nationality romanian

WORK EXPERIENCE

01/01/2019–Present

Research assistant

University Politehnica of Bucharest, Bucharest (Romania)

- Fabrication and characterization of nerve guidance channels products
- Use of the EC-CLI electrospinning, IME TECHNOLOGIES

01/04/2017–31/08/2018

Research Assistant

University Politehnica of Bucharest, Bucharest (Romania)

- Surface modification of polypropylene meshe
- micro-CT (SkyScan 1272, Bruker) characterization

15/11/2016–07/02/2018

Research assistant

Chemspeed Ltd, Bucharest (Romania)

- Research activities in microwave & ultrasound extraction of essential oils
- Research activities in biomaterials field

10/2015–06/2016

Research stage

University Politehnica of Bucharest, Bucharest (Romania)

- Modification of natural polymers in order to generate 3D structures through network-forming polymerization of C=C bonds
- Hydrogels synthesis based in modified natural polymers
- Characterization of hydrogels

06/2015–09/2015

Internship

National Research and Development Institute for Textile and Leather, Division Leather and Footwear Research Institute (INCDTP Division ICPI), Collagen Department, Bucharest (Romania)

- Synthesis and characterization of drug delivery systems based on collagen
- Scaffold characterization (Isoelectric point determination, optical microscopy, FT-IR, water up-take capacity, enzymatic degradation, drug release mechanism)

EDUCATION AND TRAINING

01/10/2018–Present

Doctoral studies ongoing

University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest (Romania)

2016–2018

Medical Engineer

Politehnica University from Bucharest, Faculty of Medical Engineer, Master Program: Biocompatible Substances, Materials and Systems, Bucharest (Romania)

12/02/2018–12/04/2018 **Erasmus Stage**

University of Angers, Faculty of Medicine, Angers (France)

- use a computed microtomograph (Skyscan 1272) and all softwares necessary to reconstruct, thresholding, 3D modeling, morphometric analysis and file management.
- analyze a series of bones containing or not a biomaterial
- participate to the weekly laboratory meetings

2012–2016 **Engineer**

Politehnica University from Bucharest, Faculty of Medical Engineer, Study programme: Biomaterials and Medical Devices, Bucharest (Romania)

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	A1	A1	A1	A1	A1

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

Personal skills

- communication skills
- team work spirit
- seriousness

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Independent user	Independent user

[Digital skills - Self-assessment grid](#)

ECDL

Driving licence B

ADDITIONAL INFORMATION

Conferences

European Polymer Congress - EPF, 9-14th June 2019

" New coatings based on porcine gastric mucin with potential biomedical applications ", **Elena Olaret**, Andrada Serafim, Horia Iovu, Izabela Stancu

20th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE, 16-19th September 2017

"Bicomponent hydrogels based on modified biopolymers", Andrada Serafim, **E. Olaret**, M.G. Albu Kaya, M. Ghica, I.C. Stancu

"Investigation in the extraction process for fabrication of the Lavender essential oil", Mariana Patrascu, Sylviu Kumbakisaka, Durmuş Alpaslan Kaya, **Elena Olaret**

Technologies for the fabrication and characterization of 3D scaffolds for tissue engineering, Bucharest, Romania–NoRoTech, 8-9th of June 2017

"Project report on micro-CT analysis on porous scaffolds"

7th International Conference "Biomaterials, Tissue Engineering & Medical Devices, Constanța, Romania- BiomMedD', 15-17th of September 2016

"Bicomponent hydrogels based on modified natural proteins", A. Serafim, **E. Olaret**, M.G. Albu Kaya, M. Ghica, I.C. Stancu

1st International Conference "3D Modelling Techniques for Biomedical Engineering, Bucharest, Romania- MOBLIE, 13-14th of June 2016

"Bicomponent hydrogels based on modified natural polymers", A. Serafim, **E. Olaret**, M.G. Albu Kaya, M. Ghica, I.C. Stancu

Biomaterials & Regenerative Medicine, Băile Felix, Romania, BIOREMED, 17-20th September 2015

"Collagen-niflumic acid spongiuous matrices for bone repairing", M.V. Ghica, A-A.Watzlawek, **E. Olaret**, S. Marin, M.M. Marin3, E. Danila3, A.G. Simonca, M.G. Albu, C. Chelaru, C.E. Dinu-Pîrvu

National Congress of Pharmacy from Romania, XVIth Edition, Bucharest, Romania, 28th September-1st October 2016

"Natural polymer-based materials designed for wound treatment", M.V. Ghica, **E. Olăreț**, A. Serafim, I.C. Stancu, M.G. Albu-Kaya, C. Dinu-Pîrvu, L. Popa

Student Scientific Research Session

"Computed tomography - Non-invasive analysis with multiple biomedical applications", ", coordinated by Prof. Dr. Eng. Izabela Cristina Stancu, Dr. Eng. Andrada Serafim at Politechnica University of Bucharest, Prof. Dr. Daniel Chappard, May 2018- 1st prize

"Micro-CT for the characterization of porous matrices used in tissue engineering. Case study: Polyester covered in naturel hydrogel", coordinated by Prof. Dr. Eng. Izabela Cristina Stancu, Dr. Eng. Andrada Serafim at Politechnica University of Bucharest, May 2017

"Hybrid hydrogels based on methacrylated proteins for tissue regeneration", coordinated by Prof. Dr. Eng. Izabela Cristina Stancu, Dr. Eng. Andrada Serafim at Politechnica University of Bucharest, 13 May 2016

Publications

"Bicomponent Hydrogels Based on Methacryloyl Derivatives of Gelatin and Mucin with Potential Wound Dressing Applications". MATERIALE PLASTICE, 55(1), 68, SERAFIM, A., **Olaret, E.**, CECOLTAN, S., BUTAC, L. M., BALANUCA, B., VASILE, E., ... & STANCU, I. C. (2018).

"Toxicity of nanostructures—a general approach." In Nanostructures for Novel Therapy (pp. 793-809), Iosub, C. Ș., **Olăreț, E.**, Grumezescu, A. M., Holban, A. M., & Andronescu, E.

"Collagen-niflumic acid spongiuous matrices for bone repairing." Key Engineering Materials, 695, Ghica, M. V., Watzlawek, A. A., **Olaret, E.**, Voicu, S., Marin, S., Marin, M. M., ... & Dinu-Pîrvu, C. E. (2016)

Certifications

Certificate of graduation - specialization course "**Expert accessing European structural and cohesion funds**", COR code: 242213, 10 June 2018

Certificate of graduation of the **psycho-pedagogical training program**, July 2016