



PERSONAL INFORMATION



TINCU CAMELIA ELENA

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Sex: Female | Date of birth: 21.07.1983 | Nationality: Romanian

EXPERIENCE IN THE RESEARCH FIELD:

April 2022-present

Field:

Institution:

Activities and responsibilities:

Postdoctoral Researcher

Natural and Synthetic Polymers

"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection "Cristofor Simionescu"

- Obtaining biomaterials based on hydrogels with different applications, mainly in the biomedical field.
- Obtaining different delivery systems for the controlled release of bioactive compounds capable of overcoming biological barriers.
- Physicochemical characterization of newly obtained polymer systems, *in vitro* kinetic release studies, and stability studies of bioactive compounds encapsulated in the polymer matrix.
- Participation in various scientific events.
- Editing and publishing scientific articles.

April 2018-October, 2019:

Field:

Institution:

Activities and responsibilities:

Scientific Researcher

Biomaterials

Apollonia University, Iași, Romania

- Obtaining polymer systems for the controlled release of the biologically active compounds.
- Physico-chemical characterization of polymer systems and *in vitro* release kinetic studies of the drugs encapsulated in the polymer matrices.
- Writing scientific papers.

May 2017- January 2018:

Field:

Institution:

Activities and responsibilities:

Researcher Volunteer

Biomaterials/Cell cultures

IRO- Regional Institute of Oncology, Iași, Romania.

- Cell cultures of cancer cells (different cell lines).
- Haematoxylin Eosin staining
- Testing biomaterials (nano/microparticles) on different cell lines.
- Various techniques of molecular biology.

EDUCATION AND TRAINING

- April 2019-July 2019:** External mobility internships at the University of Liege, Belgium, through the Master Scholarship Program of the Project Erasmus+
- 2018-Present:** **Ph.D. Thesis in Medical Sciences, "Grigore T. Popa" University of Medicine and Pharmacy, Iași,** Romania the field of Pharmacy/Pharmaceutical Technology
- 2017-2019:** **Master in Polymeric Biomaterials and Bioresources, (the dissertation was defended in July 2020)**
„Gheorghe Asachi” Technical University, Faculty of Chemical Engineering and Protection of the Environment, Iași, Romania
- 2013-2016:** **Ph.D. Thesis in Materials Engineering**
„Gheorghe Asachi” Technical University, Faculty of Chemical Engineering and Protection of the Environment, Iași, Romania
The thesis title is “*The designing of new hydrogel particles based on biopolymers with applications in the food industry*” (scientific coordinator: Prof. Popa Marcel, Ph.D).
http://www.ch.tuiasi.ro/pdf/studii/td/2016/TD_IurciucCE2016.pdf
- April 2016 - July 2016:** External mobility internships at Artois University, IUT Bethune, France, through the Doctoral Scholarships Program of the Project Erasmus+
- November 2015-December 2015** External mobility internships at Artois University, IUT Bethune, France through the Doctoral Scholarships Program of the projects *POSDRU/159/1.5/S/133652*
- 2014-2015:** **Doctoral scholarship** in the project *POSDRU/159/1.5/S/133652*
- 2013:** **Medical Pharmacy Assistant Degree,**
Green Ecological Foundation, Iasi, Romania
- 2009:** **Degree in Chemical Engineering**
„Gheorghe Asachi” Technical University, Faculty of Chemical Engineering and Protection of the Environment, Iasi, Romania, specialization: Polymers Science and Engineering
- 2002:** **Bachelor's Degree,**
"Mihail Sadoveanu" Theoretic High School, Pașcani, jud. Iași, Romania specialization: Mathematics-Physics
- SCIENTIFIC ACTIVITY:** The research results were valorized through 14 ISI-cited articles (lead author in 12), two without impact factor, two book chapters, and 43 papers presented at national and international conferences.
- Published articles in journals with impact factor:**
- C.E. Iurciuc (Tincu),** A. Savin, C. Lungu, P. Martin, M. Popa, Gellan. Food applications, *Cellulose Chem. Technol.*, 50, 1-13, 2016.
 - C. E. Iurciuc (Tincu),** L. Alupei, A. Savin, C. Ibănescu, P. Martin, M. Popa, *Yeast cells immobilized in spherical gellan particles cross-linked with magnesium acetate*, *J. Biotechnol.*, 236, 45–56, 2016.
 - C.E. Iurciuc (Tincu),** A. Savin, P. Martin, C.A. Peptu, M. Popa, *Yeast cells immobilized in ionic crosslinked hydrogel particles based on gellan and gellan/ carboxymethyl cellulose – comparative study*, *Journal of Nanoscience and Nanotechnology*, 17, 4827–4836, 2017.

4. L.I. Atanase, J.-P. Lerch, S. Caprarescu, **C.E. Iurciuc (Tincu)**, and G. Riess, *Micellization of pH-sensitive poly(butadiene)-block-poly(2 vinyl pyridine)-block-poly(ethylene oxide) triblock copolymers: Complex formation with anionic surfactants*. J. Appl. Polym. Sci., 134, 45313, 2017.
5. **C.E. Iurciuc (Tincu)**, C. Lungu, P. Martin, M. Popa, *Gellan. Pharmaceutical, medical and cosmetic applications*, Cellulose Chem. Technol., 51, 187-202, 2017.
6. **C.E. Iurciuc (Tincu)**, C. Peptu, A. Savin, L.I. Atanase, K. Souidi, G. Mackenzie, P. Martin, G. Riess, M. Popa, *Microencapsulation of Baker's Yeast in Gellan Gum Beads Used in Repeated Cycles of Glucose Fermentation*, International Journal of Polymer Science, vol. 2017, Article ID 7610420, 15 pages, 2017.
7. **C.E. Iurciuc (Tincu)**, A. Savin, L.I. Atanase, P. Martin, M. Popa, *Physico-chemical characteristics and fermentative activity of the hydrogel particles based on polysaccharides mixture with yeast cells immobilized, obtained by ionotropic gelation*, Food and Bioproducts Processing, 104, 104–123, 2017.
8. **C.E. Iurciuc (Tincu)**, A. Savin, L. I. Atanase, M. Danu, P. Martin, M. Popa, *Encapsulation of Saccharomyces cerevisiae in hydrogel particles based gellan ionically cross-linked with zinc acetate*, Powder Technology, 325, 476-489, 2018.
9. **C.E. Iurciuc-Tincu**, L.I. Atanase, L. Ochiuz, C. Jérôme, V. Sol, P. Martin, M. Popa, *Curcumin-loaded polysaccharides-based complex particles obtained by polyelectrolyte complexation and ionic gelation. I-Particles obtaining and characterization*, Int. J. Biol. Macromol. 2020; 147:629-642, <https://doi.org/10.1016/j.ijbiomac.2019.12.247>
10. **C.E. Iurciuc-Tincu**, M.S. Cretan, V. Purcar, M. Popa, O.M. Daraba, L.I. Atanase, L. Ochiuz, *Drug Delivery System Based on pH-Sensitive Biocompatible Poly(2-vinyl pyridine)-b-poly(ethylene oxide) Nanomicelles Loaded with Curcumin and 5-Fluorouracil*. Polymers 2020; 12(7), Article ID: 1450. <https://doi.org/10.3390/polym12071450>
11. **C.E. Iurciuc (Tincu)**, L.I. Atanase, C. Jérôme, V. Sol, P. Martin, M. Popa, L. Ochiuz, *Polysaccharides-Based Complex Particles' Protective Role on the Stability and Bioactivity of Immobilized Curcumin*, Int. J. Mol. Sci. 2021; 22(6), Article ID: 3075, <https://doi.org/10.3390/ijms22063075>.
12. M. Dellali, **C.E. Iurciuc (Tincu)**, C.L. Savin, N. Spahis, M. Djennad, M. Popa, *Hydrogel Films Based on Chitosan and Oxidized Carboxymethylcellulose Optimized for the Controlled Release of Curcumin with Applications in Treating Dermatological Conditions*, Molecules 2021; 26, Article ID: 2185. <https://doi.org/10.3390/molecules26082185>
13. Andritoiu, C.V.; Lungu, C.; Danu, M.; Ivanescu, B.; Andriescu, C.E.; Vlase, L.; Havarneanu, C.; **Iurciuc, C.E.**; Popa, M. Evaluation of the Healing Effect of Ointments Based on Bee Products on Cutaneous Lesions in Wistar Rats. Pharmaceuticals 2021, 14, 1146. <https://doi.org/10.3390/ph14111146>
14. **Iurciuc (Tincu) CE**, Popa M, Atanase LI, Popa O, Ochiuz L, Postolache P, Ghizdovat V, Irimiciuc SA, Agop M, Volovat C, Volovat S. *Multi-fractal modeling of curcumin release mechanism from polymeric nanomicelles*. Drug Deliv. 2022 Dec;29(1):2883-2896. <https://doi.org/10.1080/10717544.2022.2118402>

Published articles in journals without impact factor: 1. C.V. Andrițoiu, V. Andrițoiu, **C.E. Tincu**, A. Spatareanu, M. Popa, *Natural polymers used in formulations for the treatment of skin lesions*, Journal of Integrative Medicine and Complementary Therapies, 1 (1), 87-104, 2015.

2. **C.E. Iurciuc (Tincu)**, C.V. Andrițoiu, M. Popa, *The role of metal ions in the metabolism of yeast cells and fermentation processes*, Journal of Integrative Medicine and Complementary Therapies, 1 (2) 174-184, 2016.

Book chapters:

1. **C.E. Iurciuc (Tincu)**, L.I. Atanase, M. Popa, *Physico-chemical and Biological Properties of Carboxymethyl Cellulose*, in Carboxymethylcellulose: Synthesis and Characterization, edited by Md. I. H. Mondal, Volume 1, Nova Science Publishers, New York, Chapter 5, February 2019. <https://novapublishers.com/shop/carboxymethyl-cellulose-volume-i-synthesis-and-characterization/>

2. **Iurciuc-Tincu, C.E.**, Ochiuz, L., Popa, M., Atanase, L.I. (2022). Crosslinked Marine Polysaccharides for Delivery of Therapeutics. In: Jana, S., Jana, S. (eds) Marine Biomaterials. Springer, Singapore. https://doi.org/10.1007/978-981-16-5374-2_2

Papers presented at National and International Conferences.

Oral communications:

1. **C.E. Iurciuc (Tincu)**, A. Savin, M. Popa, P. Martin, *Immobilisation de la levure de biere dans de particules a base gellane pour applications en cycles repetes de fermentation*, at the XIth Franco-Romanian Symposium on Polymers, Pitesti, Romania, August 27 to 29, 2014.

2. A. Savin, **C.E. Iurciuc (Tincu)**, M. Popa, P. Martin, *Biopolymer – Yeast Particulated System*, 2nd International Conference on Bioinspired and Biobased Chemistry & Materials, Nice, The French Riviera, France, October 15-17, 2014.

3. **C.E. Iurciuc (Tincu)**, A. Savin, M. Popa, P. Martin, *Immobilized brewers yeast in ionic cross-linked gellan particles: preparation, characterization and applications*, 3rd North and East European Congress on Food, Brasov, Romania 20-23 May 2015.

4. **C.E. Iurciuc (Tincu)**, A. Savin, M. Popa, P. Martin, *Gellan/carboxymethyl cellulose-based hydrogels in the particulated form for yeast cells immobilization*, 19th Romanian International Conference on Chemistry and Chemical Engineering, Sibiu, România, 2-5 September 2015.

5. **C.E. Iurciuc (Tincu)**, P. Martin, M. Popa, *The α -Amylase immobilization in gellan particles ionic crosslinked with magnesium acetate solution*, XIIth Franco-Romanian Symposium on Polymers, 5-7 September 2016, Sophia Antipolis, France.

6. **C.E. Iurciuc (Tincu)**, P. Martin, M. Popa, *α -Amylase immobilized in gellan particles obtained through the ionotropic gelation with magnesium ions.*, Autumn Scientific Session, Neamt “Science. Knowledge. Creativity. Spirituality “, 22 to September 24 2016, Durău, Romania.

7. **C.E. Iurciuc (Tincu)**, M. Popa, *The therapeutic effects of curcumin and benefits obtained by immobilization in polymeric matrices based on polysaccharides.*, International Conference of Alternative Therapies ANATECOR, Arad, Romania, 2 to December 4 2016.

8. **C.E. Iurciuc (Tincu)**, M. Popa, *Curcumin immobilization in particles based on polysaccharides*, RICCE 2017: 20th Romanian International Conference on Chemistry and Chemical Engineering, 6 – 9 September 2017, Poiana Brasov, Romania.

9. **C.E. Iurciuc-Tincu**, V. Sol, P. Martin, M. Popa, *Study of curcumin immobilization on particles based on polysaccharides: gellan /carrageenan/chitosan*, BIOPOL 2017 - 6th International Conference on Biobased and Biodegradable Polymers, 11-13 September 2017, Mons, Belgium.
10. **C.E. Iurciuc (Tincu)**, D. Rata, X. Patras, L.I. Atanase, M. Popa, *Particles based on polysaccharides loaded with curcumin with anti-tumor effect*. Scientific Symposium of Autumn AOSR, Timișoara, Romania, 12-14 October 2017.
11. D. M. Rață, A.N. Cadinoiu, L. Atanase, **C.E. Tincu**, M. Popa, *Poli (N-vinil piroolidona-alt-anhidridă itaconică) - precursor pentru nanoparticule purtătoare de medicamente*, Iași, Romania- 27 octombrie 2017.
12. **C.E. Iurciuc (Tincu)**, L.I. Atanase, P. Martin, M. Popa, *Stability studies and release of curcumin immobilized in particles based in polysaccharides*, Congresul Internațional al Universității „Apollonia” din Iași, 1-4 Martie 2018.
13. **C. E. Iurciuc (Tincu)**, L.Ochiuz, P. I. Merlușcă, L.I. Atanase, Marcel Popa, *Hydrogels films based on biopolymers containing curcumin immobilized with applications in wound healing*, Congresul Internațional al Universității „Apollonia,” February 28 - March 3, 2019, Iași, România.
14. **Iurciuc (Tincu) CE**, Ochiuz L, Merlușcă PI, Atanase LI, Popa M, *Hydrogels films based on biopolymers containing curcumin immobilized with applications in wound healing*, Congresul Internațional al Universității „Apollonia,” February 28 - March 3, 2019, Iași, România.
15. Dellali M, **Iurciuc (Tincu) CE**, Zoune Dellali K, Spahis N, Djennad M, Mahmoudi H, Popa M, *Hydrogels based on chitosan and oxidized carboxymethyl cellulose - potential supports for drug immobilization*, International Congress of „Apollonia” University from Iași, Edition XXX, 27th of February – 1st of March 2020, Iași, România.
16. **Iurciuc (Tincu) CE**, Merlușcă PI, Ochiuz L, Popa M., *Preparation and characterization of hydrogel films-based on gellan/albumin/pectin obtained by ionic cross-linking and polyelectrolyte complexation with curcumin encapsulated for wound healing applications*, International Congress of „Apollonia” University from Iași Edition XXX, 27th of February – 1st of March 2020, Iași, România
17. **Camelia Elena Iurciuc (Tincu)**, Christine Jérôme, Marcel Popa, Lăcrămioara Ochiuz, *Curcumin-loaded hydrogel films based on bovine serum albumin and oxidized gellan with biomedical applications*, 12th International Conference on Materials Science & Engineering, BraMat 2022, March 9-12, 2022.
18. **Camelia Elena Iurciuc (Tincu)**, Christine Jérôme, Marcel Popa, Carmen Gafițanu, Eliza Grațielă Popa, Lăcrămioara Ochiuz, *Biocompatible hydrogels films with the inclusion complex of β -cyclodextrin/curcumin immobilized for biomedical applications*, International Conference on Natural Products in Drug Discovery and Development – Advances and Perspectives, PSE Meeting 2022, September 19 – 22, 2022, Iași, Romania

Poster presentations:

1. **C.E. Iurciuc (Tincu)**, C.L. Savin, A. Savin, M. Popa, P. Martin, *Yeast cells immobilized in spherical gellan matrices: a comparative study*, International Conference on Materials Science & Engineering, Brașov, Romania, 5-7 March 2015.
2. C.A. Peptu, C. L. Savin, G. Andrei, **C.E. Iurciuc (Tincu)**, M. Popa, *Poly (ethylene methacrylate) grafted chitosan microparticles for ophthalmic applications*, International Conference on Materials Science & Engineering, Brașov, Romania, 5-7 March 2015.

3. **C.E. Iurciuc (Tincu)**, A. Savin, M. Popa, P. Martin, *Hybrid particles based on polysaccharides and beer yeast used in continuous fermentation*, 7thNational Congress with International Participation and 33rd Annual Scientific Session of the Romanian Society for Cell Biology, Baia Mare, Romania, 11-14 June 2015.
4. **C.E. Iurciuc (Tincu)**, A. Savin, P. Martin, P. Marcel, *Hydrogel particles based on polysaccharides mixtures for yeast cells immobilization*, 2nd CommScie International Conference "Challenges for Sciences and Society in Digital Era," Iasi, Romania, 4-5 December 2015.
5. **C.E. Iurciuc (Tincu)**, C.A. Peptu, P. Martin, M. Popa, " *α -Amylase immobilized in matrices based gellan ionically crosslinked*," International Congress of Apollonia University, 3-5 March 2016, Iasi, Romania.
6. C.V. Andrițoiu, **C. Iurciuc (Tincu)**, C.A. Peptu, C.L. Savin, M. Popa, *New formulations based on natural polymers and api-phytotherapeutic extracts for the treatment of some dermal lesions experimentally induced*, International Congress of Apollonia University, 3-5 March 2016, Iasi, Romania
7. **C.E. Iurciuc (Tincu)**, P. Martin, V. Sol, M. Popa, *New supports for curcumin immobilization based on polysaccharides*, XIIth Franco-Romanian Symposium on Polymers, 5-7 September 2016, Sophia Antipolis, France.
8. **C.E. Iurciuc (Tincu)**, A. Savin, P. Martin, M. Popa, *Yeast cells immobilized in gellan particles ionically crosslinked with CaCl₂*, The 3rdInternational Conference on Bioinspired and Biobased Chemistry & Materials, October 16-19, 2016, Nice, France.
9. **C.E. Iurciuc (Tincu)**, A. Savin, M. Popa, P. Martin, *Particles based on polysaccharides mixture with yeast cells immobilised: obtaining, physico-chemical characteristics and fermentative activity*, RICCCCE 2017: 20th Romanian International Conference on Chemistry and Chemical Engineering, September 6-9, 2017, Poiana Brasov, Romania.
10. M. Dellali, **C. E. Iurciuc (Tincu)**, K. Zanoune Dellali, M. Popa, *Immobilization of curcumin in hydrogel films based on chitosan and oxidized carboxymethyl cellulose*, 4thInternational Conference on Chemical Engineering, Iași, Romania, October 31, 2018-November 2, 2018.
11. M. J. Ugwonali, **C. E. Iurciuc (Tincu)**, P. Martin, M. Popa, *The α -Amylase immobilization in chitosan/alginate particles obtained by polyelectrolyte complexation and ionic cross-linking*, 4thInternational Conference on Chemical Engineering, Iași, Romania, October 31, 2018-2 Noiembrie 2, 2018.
12. M. Dellali, **C.E. Iurciuc (Tincu)**, N. Spahis, M. Popa, *Obtaining and characterisation of hydrogel films based on oxidized carboxymethyl cellulose, chitosan and lactalbumin for controlled drug delivery*, Congresul Internațional al Universității „Apollonia,” February 28 - March 3, 2019, Iași, Romania.
13. **C.E. Iurciuc (Tincu)**, L. Ochiuz, M. Popa, *Design and in vitro evaluation of hydrogels films based on gellan/ albumin/pectin with curcumin immobilized having applications in wound healing*, 11th International Conference on Materials Science & Engineering, March 13-16, 2019, Poiana Brasov, Romania.
14. **Camelia Elena Iurciuc (Tincu)**, Lăcrămioara Ochiuz, Marcel Popa, *Preparation and characterization of curcumin immobilized in particles based on polysaccharides*, International Symposium Teaching and Learning Innovations in Medical Education, Ediția a XIX Edition, May 30, 2019, Iași, Romania.

15. **C.E. Iurciuc (Tincu)**, L. Ochiuz, A. Bujor, L. I. Atanase, M. Popa, *Immobilization of curcumin in hydrogel films based on gellan/albumin/pectin obtained by ionic crosslinking and polyelectrolyte complexation*, 4th International Conference on Natural Products Utilization: From Plants to Pharmacy Shelf, ICNPU-2019, May 29-June 1 2019 Albena, Bulgaria.
16. **C.E. Iurciuc (Tincu)**, L.I. Atanase, R. Riva, C. Jérôme, L. Ochiuz, M. Popa, *Immobilization of curcumin in hydrogel films based on albumin and oxidized gellan*, 21st Romanian International Conference on Chemistry and Chemical Engineering (RICCCE) Mamaia-Constanța, Septembrie 2019.
17. **Iurciuc (Tincu) CE**, Jérôme C, Popa M, Ochiuz L, *Curcumin immobilization in hydrogels films based on bovine serum albumin (BSA) cross-linked with oxidized gellan*, International Congress of “Apollonia” University from Iași , Edition XXXI, 1 - 3 March 2021, Iași, Romania.
18. **Iurciuc (Tincu) CE**, Atanase LI, Jérôme C, Ochiuz L, Popa M, *Preparation and characterization of a hydrogel film based on albumin and partially oxidized gellan with β -cyclodextrin/curcumin inclusion complex immobilized*, The 48th World Polymer Congress IUPAC-MACRO2020+, May 16-20, 2021, ICC Jeju, Korea.
19. **Iurciuc (Tincu) CE**, Atanase LI, Ochiuz L, Popa M, *Smart polymeric micelles loaded with curcumin and 5-fluorouracil suitable for utilization as injectable drug delivery systems*, The 48th World Polymer Congress IUPAC-MACRO2020+, May 16-20, 2021, ICC Jeju, Korea
20. Dellali M, **Iurciuc (Tincu) CE**, Savin CL, Spahis N, Djennad M, Popa M, *New hydrogel films based on chitosan and oxidized carboxymethylcellulose for curcumin immobilization, with potential applications in the treatment of the dermatological diseases*, The 48th World Polymer Congress IUPAC-MACRO2020+, May 16-20, 2021, ICC Jeju, Korea
21. **C.E. Iurciuc (Tincu)**, C. Jérôme, M. Popa, L. Ochiuz, *Hydrogel films based on bovine serum albumin and partially oxidized gellan with β -cyclodextrin/curcumin inclusion complex immobilized with applications in dermatological diseases*, 31st Conference of the European Society for Biomaterials, September 5-9, 2021, Porto, Portugal.
22. **Camelia Elena Iurciuc (Tincu)**, Alexandra BUJOR, Mousa SHA'AT, Marcel POPA, Lăcrămioara OCHIUZ, *β -cyclodextrin/curcumin inclusion complex-loaded hydrogels films based on biopolymers*. Characterization and curcumin release kinetic study, International Conference Progress in Organic and Macromolecular Compounds 28th Edition, Octobre 7-9, 2021, Iasi, Romania.
23. **Camelia Elena Iurciuc (Tincu)**, Paula Irina Merlușcă, Marcel Popa, Lăcrămioara Ochiuz, *Hydrogels films based on bovine serum albumin/gellan/pectin containing β -cyclodextrin/curcumin inclusion complex immobilized with biomedical applications*, International Congress of „Apollonia” University from Iași “By promoting excellence, we prepare the future” Edition XXXII, 28 February - 2 March 2022, Iași, Romania
24. **Camelia Elena Iurciuc (Tincu)**, Marcel Popa, Lăcrămioara Ochiuz, *Preparation and characterization of polyphenols-loaded gastro-resistant complex particles based on biopolymers*, The 49th World Polymer Congress, MACRO 2022, July 17-21, 2022, Winnipeg, Canada.
25. **Camelia Elena Iurciuc (Tincu)**, Marcel Popa, Lăcrămioara Ochiuz, *Polyphenols-loaded gastro-resistant complex particles based on biopolymers with biomedical applications*, International Conference on Natural Products in Drug Discovery and Development – Advances and Perspectives, PSE Meeting 2022, September 19 – 22, 2022, Iași, Romania

Other participations:

1. Participation at 1st International Summer School “PROTEOMICS – from Introduction to Clinical Application,” July 9 -14th, 2017, Iași, Romania.
2. Participation at the Agilent Seahorse Workshop, October 24, 2017, Iasi, Romania.

Prizes:

June 2015- IInd Prize at 7thNational Congress with International Participation and 33rd Annual Scientific Session of the Romanian Society for Cell Biology, Baia Mare, Romania with the paper *Hybrid particles based on polysaccharides and beer yeast used in continuous fermentation.*

March 2016-IIIrd Prize at International Congress of Apollonia University, Iasi, Romania, with the paper *α-Amylase immobilized in matrices based gellan ionically crosslinked.*

Research projects:

April 2022-present

Manager of the postdoctoral research project PN-III-P1-1.1-PD-2021-0553, No. PD 61/2022, with the title "Overcoming the blood-brain barrier with new functionalized particles based on biopolymers, containing two co-encapsulated antitumor drugs

Iunie 2022-present

Member of the research team within the project entitled "Photonic conversion layers based on photoemissive nanostructured materials for increasing the conversion efficiency of photovoltaic solar cells," PN III COFUND, no. 293/2022, Project manager: CS II. Dr. Corneliu Sergiu Stan.

Iulie 2022-present

Member of the research team within the project entitled "Porous materials derived from biomass waste with environmental and hydrogen storage applications," PN III PCE, no. 118/2022, Project Director: Prof.dr.habil.Eng. Irina Volf

May 2018-May 2019

-Member of the project research team PN-III-P1-1.1-TE-2016-0532, Drug-loaded biomaterials obtained from non-aqueous emulsions, Project manager: Prof. Dr. Eng. Atanase Leonard Ionut

June 2018-December 2018

- Member of the research team of the Walonia - Romania Cooperation Project, Project manager: prof.dr.eng..dr.h.c. Popa Marcel.

Work experience in other fields

- 21.07.2012-16.04.2013
- 14.04.2011-16.02.2012
- 24.09.2009 - 09.09.2010
- 07.07.2009 - 25.03.2010

- Sale Advisor, S.C. Floare de colt SRL, Iasi, Romania
- Financial Consultant, S.C.Infopagina S.R.L.,Iasi, Romania
- Sales Advisor, S.C.Alexini Trade SRL, Iasi, Romania
- Financial Consultant, BCR Life insurance, Iasi, Romania

PERSONAL SKILL

Mother tongue	Romanian				
	UNDERSTANDING		SPEAKING		WRITING
Other language(s)	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	B1	B1	B1	B1	B1

Social skills:

- Good communication skills in science gained by supporting public lectures at national and international scientific sessions
- Responsibility, adaptability, sociability
- Values: honesty, equitability, and dignity
- Ability to establish and maintain good working relations with people of different nationalities and who come from different cultures

Technical skills and competences:

- Obtaining of polymer systems for the controlled release of biologically active compounds (cells, enzymes, nutraceuticals).
- Preparation of hydrogels based on biopolymers (polysaccharides and proteins) for the controlled release of bioactive compounds
- Modification of polysaccharides.
- Analytical thinking, ability to use and manipulate technical instruments, ability to use modern technology to characterize macromolecular compounds: HPLC, FT-IR-ATR, UV-VIS Spectrophotometry, Optical microscopy
- Applying methods and laboratory techniques for the study of nucleic acids, the use of the devices and equipment from the laboratory of cell and tissue cultures.

Computer Skills:

Microsoft Office: Word, Excel, PowerPoint, Concept Draw Office, OriginPro