## Raluca TUTUIANU

#### **Personal information:**

+40 742 302 648

<u>raluca.tutuianu@icbp.ro</u>, <u>ralu.tutuianu@gmail.com</u> www.linkedin.com/in/ralucatutuianu

#### Education

PhD in Biology- School of Advanced Studies of the Romanian Academy, Bucharest, Romania October 2014- November 2021

Supervisor: Maya SIMIONESCU, Thesis: Exploring the Capacity of Mesenchymal Stromal Cells Derived Secretome Combined with Nano-Biomaterials for Developing Innovative Therapies in Regenerative Medicine

Master of Science in Material Engineering- Politehnica University of Bucharest, Romania October 2010- June 2012

Specialization: Biocompatible Substances, Materials and Systems

Thesis: Biochemical Analysis of Blood Based on the Study of the Evaporation of a Drop

Bachelor of Science in Bioengineering- Gr. T. Popa University of Medicine and Pharmacy, Iassy, Romania

October 2006- July 2010

Thesis: Finite Element Analysis for the Tensions of a Coronary Stent

# **Work Experience**

Scientific Researcher- Nicolae Simionescu Institute of Cellular Biology and Pathology, Bucharest, Romania, July 2022- present

Research Assistant- Nicolae Simionescu Institute of Cellular Biology and Pathology, Bucharest, Romania, February 2014- present

Research Intern- Nicolae Simionescu Institute of Cellular Biology and Pathology, Bucharest, Romania, October 2013- January 2014

FP7 project assistant- National Authority for Scientific Research, Bucharest, Romania, August 2012- June 2013

Intern- National Authority for Scientific Research, Bucharest, Romania

#### **Courses and specializations**

- 1. Researcher Connect Online programme, November 13-23 2023, British Council
- 2. "9th LAS EU FUNCTIONS Course" (FELASA certified, functions ABCD), National and Kapodistrian University of Athens, Greece, September 11-22, 2023
- 3. Training School **Advancing skills in 3D skin and epidermal biology computer modelling**, July 10-12, 2023 (Cost action CA21108- European Network for Skin Engineering and Modeling)
- 4. Games of Science, University of Bucharest, Romania, March 9-10 2023

- 5. **Practical training stage on exosomes isolation and characterization** UMC, Utrecht, the Netherlands, August 2018, Supervisor: Magdalena Lorenowicz, PhD.
- 6. SciFi: from Scientists to Innovators for Industry, EIT Health, September –November 2022
- 7. **Drug Development Product Management Specialization** UC San Diego, USA via Coursera;
- 8. Basics of Extracellular Vesicles, University of California via Coursera;

#### Awards

- Second Prize at the Poster Session of the COST Training School on Advancing skills in 3D skin and epidermal biology computer modelling, July 10-12, 2023, Univ. of Surrey, UK (Cost action CA21108- European Network for Skin Engineering and Modeling)
- L'Oreal UNESCO National Fellowship for Women in Science, 13th Edition, 2022
- Second Prize at the Poster Session of the 37th Annual Scientific Session of the Romanian Society for Cell Biology, June 20-23, 2019, Constanta, Romania;
- Third Prize at the PhD Students Mini symposium of the 35th Annual Scientific Session of the Romanian Society for Cell Biology, June 7-11, 2017, Iassy, Romania.

## **Scientific papers**

- 16 ISI papers- 4 as main author
- 5 paper awards by UEFISCDI: 1. PN-II-RU-PRECISI-2015-9: PMID: 25985154; 2. PN-III-P1-1.1-PRECISI2018-21777: PMID: 29023373; 3. PN-III-P1-1.1-PRECISI2018-21924: PMID: 27943613; 4. PN-III-P1-1.1-PRECISI-2019-34158: PMID: 30044046; 5. PN-III-P1-1.1-PRECISI-2020-75080: PMID: 32666712

#### **Book chapters**

- Rosca, AM., <u>Tutuianu, R.</u>, & Titorencu, I. (2020). Advances in Skin Regeneration and Reconstruction. In Frontiers in Stem Cell and Regenerative Medicine Research: Volume 9 (pp. 143-187), Bentham Science Publishers;
- Rosca, AM., <u>Tutuianu, R.</u>, Ghetu, D.M., Titorencu, I. (2024). Mesenchymal Stromal Cells for Wound Healing Therapy: From Expectations to Reality. In: Haider, K.H. (eds) Handbook of Stem Cell Applications (pp. 939-976), Springer, Singapore.

#### **Patents**

- Albu Kaya MG, Lascar I, Stancu I-C, Titorencu I-D., Zamfirescu D-G, Zegrea I, Marin S, Lungu A, Nitipir C, <u>Tutuianu R</u>, Simionescu M. Stratified porous scaffolds for the personalized treatment of difficult wounds and the process for production there of OSIM A/ 2017 00753 (2022)- Gold Medal Award at the Traian Vuia International Salon of Inventions and Innovations, Timisoara, October 8-10, 2022
- Titorencu I, Rosca AM, Iacomi MD, <u>Tutuianu R</u> et al. Composite polymeric hydrogels with antibacterial and healing properties and process for obtaining them, State Office for Inventions and Trademarks, A/00370/26.06.2021 (patent application).

## **Research projects**

Collaborator in 9 national funded research grants: 1. THERAGENLIV- Enhacing the endogenous anti-oxidant and cholesterol removal potential by gene editing in fatty liver disease; pre-clinical studies, PNRR 197/2022; 2. FibroTher- Enhancing the paracrine properties of fibroblasts by three-dimensional aggregation for chronic wounds therapy, PN III TE-2021 149/2022, 3. BioMimCells - Optimization of human mesenchymal stem cells interaction with innovative biomimetic structures for tissue engineering, PN III PED 621/2022, 4. PROSKIN- Mesenchymal stromal cells contribution to the reepithelialization process of biomimetic skin cultures by differentiation and paracrine factors, PNIII TE 3/2018; **5. NANOLIFE**- Bioactive Nanostructures for Innovative Therapeutic Strategies, PN III PCCDI 45/2018; 6. Zettaskin- Rational design and synthesis of bioactive smart scaffolds for the personalized treatment of acute and chronic wounds, PN II PCCA 201/2014 7. Osseopromote- Multifunctional coatings for load bearing implants made of a novel titanium-based alloy, PN II PCCA 212/2014; 8. ComTIsM- Ischemic tissue engineering by combinatorial transplant: piecing together the puzzle to gain mutual benefits for graft survival and host tissue repair, PN II TE 83/2014; 9. THERION- Preclinical model of cell therapy employing protein tyrosine phosphatase-microRNA interplay to optimize neovascularization, PN II PCCA 79/2012. Actively participating in the grant writing for 2 projects: NANOLIFE and PROSKIN.

# Membership in Academic Professional Associations and Societes

Romanian Society for Cell Biology