



## Rusu Evelyn-Gabriela

**Date of birth:** 14/11/1993 | **Nationality:** Romanian | **Phone:** (+40) 0720504577 (Mobile) |

**Email address:** [rusu\\_evelyn\\_gabriela@yahoo.com](mailto:rusu_evelyn_gabriela@yahoo.com) | **Email address:**

[Evelyn-Gabriela.Rusu@icbp.ro](mailto:Evelyn-Gabriela.Rusu@icbp.ro) | **Address:** Intrarea Mirodeniei, 5, Ap 5, Et. 1, 030167, Bucharest, Romania (Home)

### ● WORK EXPERIENCE

30/11/2020 - CURRENT - BUCHAREST, ROMANIA

**SCIENTIFIC RESEARCHER** THE INSTITUTE OF CELLULAR BIOLOGY AND PATHOLOGY "NICOLAE SIMIONESCU"

07/01/2018 - 30/11/2020 - BUCURESTI, ROMANIA

**SCIENTIFIC RESEARCH ASSISTANT** THE INSTITUTE OF CELLULAR BIOLOGY AND PATHOLOGY "NICOLAE SIMIONESCU"

### ● EDUCATION & TRAINING

30/09/2018 - Current - BUCHAREST, ROMANIA

**PHD STUDIES-** THE INSTITUTE OF CELLULAR BIOLOGY AND PATHOLOGY "NICOLAE SIMIONESCU"

**Address:** Strada B.P.HASDEU, nr 8, Sector 5050568 | **Website:** <http://www.icbp.ro/>

30/09/2016 - 19/07/2018 - BUCHAREST, ROMANIA

**MASTER DEGREE- APPLIED MICROBIOLOGY AND IMMUNOLOGY-** UNIVERSITY OF BUCHAREST - FACULTY OF BIOLOGY

**Address:** Grădina Botanică, Intrarea Portocalelor 3, Bucharest030167

30/09/2013 - 14/07/2016 - CONSTANTA, ROMANIA

**UNDERGRADUATE STUDIES- BIOLOGY-** OVIDIUS UNIVERSITY OF CONSTANTA - FACULTY OF AGRICULTURAL SCIENCES AND NATURAL SCIENCES

**Address:** Aleea Universității nr. 1, corpul B, Constanța 900470 | **Website:** <http://snsa.univ-ovidius.ro>

14/09/2009 - 23/06/2013 - NAVODARI, ROMANIA

**HIGH SCHOOL- SPECIALIZATION MATHEMATICS-INFORMATICS-** LICEUL TEHNOLOGIC LAZĂR EDELEANU, NĂVODARI, CONSTANȚA

**Address:** Strada Sănătății nr.2, Năvodari 905700 | **Website:** [www.ltedeleanu.ro](http://www.ltedeleanu.ro)

### ● LANGUAGE SKILLS

Mother tongue(s): **ROMANA**

#### UNDERSTANDING

#### SPEAKING

#### WRITING

Listening

Reading

Spoken production Spoken interaction

ENGLISH	C2	C2	C1	C1	C1
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## ● SKILLS

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Microsoft Excel | Power Point | Microsoft Office | Google Drive | Graphpad prism (Version 700 600 500) | ImageJ Fiji | Adobe Photoshop 2018 | TotalLab | ModFit LT | vevo2100 | Analysis of co-occurrence networks (Cytoscape, CoNet) | analisi di arricchimento di pathway (GSEA, David, String)

## ● PUBLICATIONS

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### **Mesenchymal stromal cells modulate neutrophil phenotype via paracrine signals** 2025

Laudy Cherry, Sinziana Popescu,&, Carmen Alexandra Neculachi, Evelyn-Gabriela Nastase-Rusu, Alexandrina Burlacu, Mihai Bogdanet. al. Preda Stem Cell Research & Therapy

### **miR-210 promotes the anti-inflammatory phenotype and M2 polarization in murine macrophages** 2025

Write here the description...

4. Neculachi CA, Nastase-Rusu EG, Cherry L, Marinescu-Colan CI, Tastsoglou S, Cosman BP, Popa AM, Panciuc C, Zaccagnini G, Catrina SB, Simionescu M, Martelli F, Preda MB, Burlacu A Frontiers in Immunology

### **miR-210 locus deletion disrupts cellular homeostasis: an integrated genetic study** 2025

5. Preda MB, Nastase-Rusu EG, Neculachi CA, Zhong X, Voellenkle C, Mazure NM, Balacescu O, Ivan C, Zheng XW, Gherghiceanu M, Lebrigand K, Simionescu M, Martelli F, Mari B, Catrina SB, Burlacu A, Ivan M Scientific Reports

### **From cancer to heart fibrosis - GLIPR1 highlights a subset of myofibroblasts responsive to mesenchymal stem cell therapy after myocardial infarction** 2025

Marinescu-Colan CI, Nastase-Rusu EG, Neculachi CA, Martelli F, Cherry L, Preda MB, Burlacu A. . Biomedicine & Pharmacotherapy

### **MiR-29a Increase in Aging May Function as a Compensatory Mechanism Against Cardiac Fibrosis ThroughSERPINH1 Downregulation**

*Evelyn Gabriela Rusu-Nastase, Ana-Mihaela Lupan, Catalina Iolanda Marinescu, Carmen Alexandra Neculachi, Mihai Bogdan Preda, Alexandrina Burlacu*

### **MiRNAs Generated from Meg3-Mirg Locus are Repressed during Aging** 2021

Ana-Mihaela Lupan\*, **Evelyn Gabriela Rusu\***, Catalina Iolanda Marinescu, Mihai Bogdan Preda, Alexandrina Burlacu

\*These authors contributed equally to this work

### **Identification of a Hematopoietic Cell Population Emerging From Mouse Bone Marrow With ProliferativePotential In Vitro and Immunomodulatory Capacity**

Catalina-Iolanda Marinescu, Mihai Bogdan Preda, Carmen Alexandra Neculachi, Evelyn Gabriela Rusu, Sinziana Popescu and Alexandrina Burlacu

### **Mesenchymal stromal cell adaptation to local microenvironment following subcutaneous transplant**

2020

Mihai Bogdan Preda AnaMihaela Lupan Carmen Alexandra Neculachi Livia Ioana Leti Ioana Madalina Fenyo Sinziana Popescu Evelyn Gabriela Rusu Catalina Iolanda Marinescu Maya Simionescu Alexandrina Burlacu

## ● DRIVING LICENCE

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Driving licence: B

## ● CONFERENCES & SEMINARS

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22/03/2023 - 24/03/2023 Bucharest, Romania  
**1st Meeting of the AtheroNET COST Action**

22/02/2023 - 24/02/2023 Nicosia, Cyprus

**Final CardioRNA COST Action Meeting** Poster presentation: "**NATURAL AGING PROCESS IS ASSOCIATED WITH INCREASED MIR-29a AND DOWNREGULATEDSERPINH1 IN MULTIPLE ORGANS**" - Evelyn-Gabriela Nastase-Rusu, Ana-Mihaela Lupan, Mihai Bogdan Preda, Catalina Iolanda Marinescu, Carmen Alexandra Neculachi, Alexandrina Burlacu\*

21/10/2022 - 23/10/2022 Cluj Napoca, Romania

**39th ANNUAL SCIENTIFIC SESSION OF THE ROMANIAN SOCIETY FOR CELL BIOLOGY** Oral presentation-"Natural aging process is associated with increased miR-29a and downregulated SERPINH1 in multiple organs"- Evelyn Gabriela Nastase-Rusu, Ana-Mihaela Lupan, Catalina Iolanda Marinescu, Carmen Alexandra Neculachi, Mihai Bogdan Preda, Alexandrina Burlacu

27/04/2022 - 30/04/2022 Heraklion, Crete

**2nd Olympiad in Cardiovascular Medicine - International Symposium on Experimental and Clinical Cardiology** Poster Presentation- "MiRNAs generated from Meg3-Mirg locus are downregulated during aging"-E.G Rusu, A.M Lupan, C.I Marinescu, M.B. Preda, A. Burlacu

04/11/2021 - 06/11/2021 Bucharest

**38th ANNUAL SCIENTIFIC SESSION OF THE ROMANIAN SOCIETY FOR CELL BIOLOGY** Oral presentation (online)-"MiRNAs generated from Meg3-Mirg locus are downregulated during aging"- Evelyn-Gabriela Rusu, Ana-Mihaela Lupan, Mihai Bogdan Preda, Catalina Iolanda Marinescu, Alexandrina Burlacu

Links <https://rscb2021.wixsite.com/icbp>

17/02/2020 - 17/02/2020 Munich, Germania

**International Cell Culture Under Flow Meeting 2020** Poster Presentation-„Influence of aging on the quality and dynamics of mouse cardiac fibroblasts in culture“-E.G. Rusu, A.M. Lupan, C. Marinescu, M.B Preda, A. Burlacu

13/05/2019 - 15/05/2019 Riga, Letonia

**European Research Area Network (ERA-Net) on Cardiovascular Diseases (ERA-CVD)**

05/06/2018 - 09/06/2018 Craiova

**The 10th National Congress With International Participation and 36th Annual Scientific Session of R** Poster Presentation -" EVALUATION OF THE IMACT OF ALGINATE-BASED SCAFFOLDS ON THE MESENCHYMAL STEM CELL PROPERTIES IN VITRO"-E.G Rusu, A. Burlacu, C. Carmen

21/03/2018 - 23/03/2018 Bucuresti

**Symposium of the Academy of Medical Sciences " Nicolae Cajal"**

04/10/2016 - 06/10/2016 University of Bucharest - Faculty of Biology, Bucharest

**46th Annual Immunology Conference with International Participation**

26/11/2015 - 26/11/2015 Antipa Museum, Bucharest

**Ecology and Rehabilitation of Wild Animals Symposium**

14/06/2015 - 16/06/2015 Constanta

**Scientific communication session "The Role and Importance of the Veterinary Physician in the Current Context"**

## ● HONOURS AND AWARDS

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23/10/2022 Romanian Society for Cell Biology

**Best presentation in the PhD. student session at the 39th scientific session of the Romanian Society for Cell Biology** Oral presentation-"Natural aging process is associated with increased miR-29a and downregulated SERPINH1 in multiple organs"-Evelyn Gabriela Nastase-Rusu, Ana-Mihaela Lupan, Catalina Iolanda Marinescu, Carmen Alexandra Neculachi, Mihai Bogdan Preda, Alexandrina Burlacu

18/02/2020 Ibidi group, Munchen

**Young Scientist Award for the poster presentation** Poster presentation - "Influence of aging on the quality and dynamics of mouse cardiac fibroblasts in culture"-E.G. Rusu, A.M. Lupan, C. Marinescu, M.B Preda, A. Burlacu

14/05/2012 MECTS

**Mention -National Phase- Health Education Contest**

15/04/2012 MECTS

**Second Prize-County Phase - Health Education Contest**

07/06/2012 High School "Lazar Edeleanu", Navodari, Constanta

**First Prize "Physics through fun experiments" -Scientific project**

## ● **PROFESSIONAL SKILLS**

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### **Operating with notions, concepts, laws and principles specific to the field**

#### **Investigation of the molecular and cellular basis of organization and functioning of living matter**

Handling and performing experiments on laboratory animals

Performing Echocardiography on mice and analyze the data

Isolation of cells from animal tissues: cardiac fibroblasts (enzymatic digestion) and cardiomyocytes (infusion in the Langendorff system)

Experiments on different cell culture lines-3T3, HEK293, mMSC, HL-1

Isolation and quantification of nucleic acids

Gene cloning

Extraction and quantification of proteins from animal cells or tissues

Flow cytometry

PCR and qRT-PCR

Western Blot

Zymography

Immunocytochemistry / Immunohistochemistry

Phase contrast microscopy

Fluorescence microscopy

xCELLigence-proliferation studies

Echocardiographic examination and interpretation in mice

Seahorse XF- measuring the metabolic potential of cells

Bioinformatic analyses of miRNAs target and RNA-seq data

### **Inter- / transdisciplinary integration of field-specific knowledge**