

## PERSONAL INFORMATION POJAR (married ERHAN) SABINA - EMANUELA



## POSITION PhD Student

WORK  
EXPERIENCE

November 2023-present Maternity Leave

September 2022 – November 2023 TMF Reviewer

Parexel International SRL, Grigore Alexandrescu Street, no 89-97, Bucharest, Romania  
Business or sector Clinical Research Organization, Biopharmaceutical Services Company

January 2020 – September 2022 Junior Researcher

National Institute for Research and Development of Izotopic and Molecular Technologies, Donath Street, no 67-103, Cluj County, Romania  
Business or sector Research, Education

November 2020 – June 2022 Junior Researcher

Joint Institute for Nuclear Research, Laboratory of Radiation Biology  
Business or sector Research, Education

January 2017- January 2020 Biologist

CORD BLOOD CENTER Laboratories, Stem Cell Bank, Eftimie Murgu Street, no 2A, Cluj County, Romania  
Business or sector Biotechnology, medical and pharmaceutical

## EDUCATION

2020-present PhD Student, Biology

Babeş-Bolyai University, Faculty of Biology and Geology, Cluj-Napoca, Romania  
Doctoral School of Integrative Biology, Field: Biology

2016-2018 Master of Science, Molecular Biotechnology

Babeş-Bolyai University, Faculty of Biology and Geology, Cluj-Napoca, Romania

2013-2016 Bachelor of Science, Biology

Babeş-Bolyai University, Faculty of Biology and Geology, Cluj-Napoca, Romania

2006-2010 Baccalaureate degree

Choreography and Dramatic Art High School "Octavian Stroia", Cluj-Napoca, Romania

## SPECIALIZED COURSES AND WORKSHOPS

- 2023 [MLZ Conference 2023: Neutrons for Biomaterials](#)  
May 22-25th, Heinz Maier-Leibnitz-Zentrum (MLZ), Schloss Fürstenried, Munich, Germany  
[BIO.T.A. \(BIOdiversitate, Tradiții și Actualitate\)](#)  
May 5-6th, CREIC Center, Cluj-Napoca 400647 Romania
- 2021 [MLZ Conference 2021: Neutrons for Life Sciences](#)  
June 8-11th, Heinz Maier-Leibnitz-Zentrum (MLZ), Garching, Munich, Germany  
[The XXV International Scientific Conference of Young Scientists and Specialists \(AYSS-2021\)](#)  
October 11-15th, Institute of Nuclear Physics (INP), Almaty, Republic of Kazakhstan  
[BIO.T.A. \(BIOdiversitate, Tradiții și Actualitate\)](#)  
November 19th, Faculty of Biology and Geology, Babeș-Bolyai University, Cluj-Napoca, Romania  
[JINR Prizes for Young Scientists and Specialists for 2020-2021](#)  
Joint Institute for Nuclear Research (JINR)
- 2020 [ORNL Online Course on Neutron Scattering Applications in Structural Biology Virtual HANDS](#)  
June 2020, Spallation Neutron Source, Oak Ridge National Laboratory, United States of America  
[EMBL Online Lecture Course on Solution Scattering from Biological Macromolecules](#)  
European Molecular Biology Laboratory (EMBL) Hamburg, May 5 - June 2, 2020, Germany  
[24th JCNS Laboratory Course Neutron Scattering 2020](#)  
Online course, Forschungszentrum Jülich (JCNS) in cooperation with RWTH Aachen, Germany
- 2019 [Central European Training School on Neutron Scattering](#)  
May 2019, KFKI, Budapest, Hungary
- 2018 [Nordic Neutron Science Programme \(NNSP\) – low-dimensional structures network kick-off meeting](#)  
May 2018, Institute for Energy Technology, Kjeller, Norway
- 2018,2017 [Insights in Hematology meeting](#)  
Oncology Institute “Prof.Dr. Ioan Chiricuță”, Cluj-Napoca, Romania

## PERSONAL SKILLS

Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Spanish	C1	C1	B1	B1	A2

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

Communication skills Team spirit, good communication skills, empathy.

Organisational / managerial skills Romania – JINR Dubna colabration program between 2016-2021, laboratory team responsible at UBB Cluj-Napoca

Job-related skills Ability to work in different environments, mental and physical ability to work extended periods.

Digital competence

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

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Systems: Experienced user of Windows operating system.  
 Software: Molecular visualization, graphical programs; Office tools (Word, Excel, PowerPoint).

Technical skills Molecular biology determination (ELISA, PCR, electrophoresis etc.), biochemical determinations etc. Capability to handle laboratory animals (rats, mice) and prepare animal trial laboratory experiments.  
 Processing and data treatment resulted from samples after proton irradiation of cell cultures and sample tissue from laboratory animals (mice, rats).  
 Neutron scattering experiments (biological soft matter, beginner) and capability of handling laboratory equipment specific for biological research.  
 Triage, processing in a sterile environment, freezing and storage in liquid nitrogen of cord blood units and other tissue fragments obtained from the human umbilical cord and placenta (Stem Cell bank laboratory techniques).

Driving licence B category

# ADDITIONAL INFORMATION

## ANNEXES

Publications	<p>A. I. Moldovan, A. B. Țigu, C. T. Jula, C. S. Moldovan, <b>S. POJAR</b>, R. Drula, M. L. Nistor, B. P. Moldovan, D. Gulei, C. L. Roșioru, Lycopene and Phycocyanin - Biological Properties in Experimental Diabetes: 1. Effects on Blood Parameters and Liver Carbohydrates, <i>STUDIA UNIVERSITATIS BABEȘ-BOLYAI BIOLOGIA</i>, LXI, 2, 2016 (p. 31-39)</p> <p>A. B. Țigu, A. I. Moldovan, C. S. Moldovan, <b>S. POJAR</b>, R. Drula, C. T. Jula, D. Gulei, M. L. Nistor, B. P. Moldovan, C. Ș. Mirescu, C. L. Roșioru, Lycopene and Phycocyanin - Biological Properties in Experimental Diabetes: 2. Effects on Biochemical, Enzymatic and Histological Parameters, <i>STUDIA UNIVERSITATIS BABEȘ-BOLYAI BIOLOGIA</i>, LXI, 2, 2016 (p. 41-54)</p> <p><b>S.-E. ERHAN</b>, A. V. Boreyko, R. A. Kozhina, E. A. Kuzmina, E. V. Ilyina, S. I. Tiouchik &amp; V. N. Chausov, Induction of DNA Damage in Neuronal Cells of Mice under the Influence of Repair Inhibitors under the Action of Gamma-Rays <i>in vivo</i>, Physics of Particles and Nuclei Letters, 19, 2022, 586–589.</p> <p>R. A. Kozhina, A. V. Boreyko, V. N. Chausov, <b>S. E. ERHAN</b>, E. V. Ilyina, S. N. Koryakin, E. A. Kuzmina, O. N. Matchuk, E. I. Selivanova &amp; S. I. Tiouchik, The Effect of DNA Synthesis Inhibitor on DNA Damage Induciton in Melanoma Cells after Exposure to Protons, Physics of Particles and Nuclei Letters, 19, 2022, 590–593.</p> <p><b>ERHAN, S.E.</b>, Pârvu, A.E., Ciorîță, A., Putri, A.A., Villagrana Molina, A.J., Pârvu, M., Moț, A.C., (2023), Chemical composition and anti-inflammatory effect of <i>Phellodendron amurense</i> Rupr. stem bark extract, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, Volume 51, Issue 3, Article number 13306.</p> <p>Ciorîță, A., <b>ERHAN, S.E.</b>, Soran, M.L., Lung, I., Moț, A.C., Macavei, S.G., Pârvu, M. (2024) Pharmacological Potential of Three Berberine-Containing Plant Extracts Obtained from <i>Berberis vulgaris</i> L., <i>Mahonia aquifolium</i> (Pursh) Nutt., and <i>Phellodendron amurense</i> Rupr, Biomedicines, Volume 12, Article ID 1339.</p>
Conferences	9 international conferences
Prizes	<p><b>3<sup>rd</sup> place</b> - JINR Prizes for Young Scientists and Specialists for 2020-2021</p> <p><b>Best report</b> - The XXV International Scientific Conference of Young Scientists and Specialists, 2021</p>