


Profile will be available until 15 December 2024




Date of birth: 18/07/1997 | **Nationality:** Romanian

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WORK EXPERIENCE

Student trainee

14/07/2019 – 29/07/2019

Institute of Biochemistry of the Romanian Academy |  Bucharest, Romania

- alignment of new sequences,
- search for templates (structures similar to the protein to be studied),
- predicting the secondary structure model of the studied protein,
- predicting the degree of disorder of the molecule using specialized software,
- predicting the interaction between the molecules present in the cytosol and the protein of interest,
- use of bioinformatics databases for research purposes,
- tracking specialized articles and informing colleagues about new articles.

Student trainee

03/08/2019 – 17/08/2019

SC Hofigal Export Import SA, BUCURESTI |  Bucharest, Romania

- assistance in the testing processes of potential active substances from various plants,
- assistance regarding the optimal dosage of the active substances for the formation of a new product,
- use of the spectrophotometer for conducting experiments,
- observing the working procedures in the production department.

Biologist

03/08/2020 – Current

Personal Genetics SRL |  Bucharest, Romania

At the Personal Genetics Clinic, I served for nine months as a biologist in the SARS-CoV2 testing department, where I performed automatic and manual RNA extraction from nasopharyngeal samples from infected patients. Following the RNA extraction process, we performed RT-PCR analysis to help identify infected patients.

Later, starting with April 2021, I went to the department of Pathological Anatomy where I learned to perform the technique of immunohistochemistry both in automatic mode and the realization of manual technique going through all stages of the technical process.

EDUCATION AND TRAINING

University of Bucharest, Faculty of Biology

30/09/2019 – 06/2021

 Bucharest, Romania

- medical genetics,
- molecular pathologies,
- experimental and computational toxicology,
- bioinformatics of proteins and nucleic acids,
- applications of bioinformatics in medical genetics.

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Level in EQF: **EQF level 7**

Faculty of Biology, University of Bucharest

30/09/2016 – 27/06/2019

 Bucharest, Romania

- Biochemistry (study of proteins, dosage of lipids and serum cholesterol)
- Genetics (DNA isolation, quality testing by electrophoresis, PCR,
- Microbiology (the cultivation of bacteria on different culture media, their passage, the antibiogram and the rapid tests.)
- Immunology (ELISA tests)


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Level in EQF: **EQF level 6**

Faculty of Biology, University of Bucharest

30/09/2021 – Current

PhD Student |

 Splaiul Independenței 91-95, București, 050663, Bucharest, Romania

Traditional medicine has always been a source of inspiration for the identification of new, highly effective chemical active compounds. Poisonous plants have toxic compounds that are used for various neuralgia.

Starting from natural compounds with proven utility in various problems, I want to identify ways of interaction of these compounds with targets in the body so as to obtain interaction maps, analyzing them throughout the body. Starting from toxic compounds, the bioinformatics analysis aims at molecular modeling of the chemical groups of the compounds so as to minimize their toxic effects by maximizing their beneficial effects.

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<https://unibuc.ro/studii/facultati/facultatea-de-biologie/>

Field(s) of study: **Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics**

Thesis: Bioinformatic study of natural compounds aconitine, hipaconitine and magnoflorine

LANGUAGE SKILLS

Mother tongue(s)

Romanian

Other language(s)

	Listening	Reading	Spoken interaction	Spoken production	Writing
English	B2: Independent User	B2: Independent User	B2: Independent User	B2: Independent User	B2: Independent User
French	A2: Basic User	B1: Independent User	A2: Basic User	A2: Basic User	A2: Basic User

DIGITAL SKILLS

Microsoft Excel | Microsoft Powerpoint | Microsoft Word | Microsoft Office | Zoom

[Hide attachments](#) ^



Catalina_Mares_ECDL

ORGANISATIONAL SKILLS

Organisational skills

- Managerial competences obtained from the course of "Business Management" realized within PROEDUS, Bucharest, Romania.
- Good teamwork skills

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Good communication skills acquired through interaction with children through volunteering at the "Leonardo Murialdo" Oratory in Popești-Leordeni, Ilfov.

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