



# Alina-Veronica Ghionescu

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**Address:** Bucharest, Romania (Home)

## WORK EXPERIENCE

10/2023 – CURRENT

**RESEARCHER** CENTER OF EXCELLENCE IN TRANSLATIONAL MEDICINE, FUNDENI CLINICAL INSTITUTE

**Department: Genomics and Molecular Biology**

2019 – 2022

**RESEARCH ASSISTANT** INSTITUTE OF BIOCHEMISTRY OF THE ROMANIAN ACADEMY

**Department: Viral Glycoproteins**

09/2018 – 10/2019 Bucharest, Romania

**RESEARCH ASSISTANT** CENTER OF EXCELLENCE IN TRANSLATIONAL MEDICINE, FUNDENI CLINICAL INSTITUTE

**Department: Genomics and Molecular Biology**

## EDUCATION AND TRAINING

11/2019 – CURRENT Bucharest, Romania

**PH.D. IN BIOLOGY** School of Advanced Studies of the Romanian Academy (SCOSAAR), Institute of Biochemistry

**Thesis** Endoplasmic Reticulum signaling pathways induced by Hepatitis B Virus Infection

10/2017 – 06/2019 Bucharest, Romania

**M.SC. IN NEUROBIOLOGY** Faculty of Biology, University of Bucharest

**Thesis** Study of TRP channel expression in PDAC patients

10/2014 – 06/2017 Bucharest, Romania

**B.SC. IN BIOCHEMISTRY** Faculty of Chemistry, University of Bucharest

**Thesis** Engineering Yeast Cells for Enhanced Heavy Metal Accumulation by Targeting Carboxyrich Oligopeptides to Cell Membrane

## LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B2	B2	B2	B2	B2
<b>FRENCH</b>	A2	B1	A2	A2	A2

## ● DIGITAL SKILLS

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Microsoft/ Microsoft Office | ChemDraw | Origin | ImageJ | GraphPad | Adobe (Adobe Photoshop, Adobe Illustrator, Adobe | Endnote | SNAPgene

## ● ADDITIONAL INFORMATION

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### PUBLICATIONS

#### ISI

1. Bucataru IC, Dragomir I, Asandei A, Pantazica A-M, **Ghionescu A**, Branza-Nichita N, Park Y, Luchian T. Probing the Hepatitis B Virus E-Antigen with a Nanopore Sensor Based on Collisional Events Analysis. *Biosensors*. 2022; 12(8):596. <https://doi.org/10.3390/bios12080596>. **IF = 5.743**
  2. **Ghionescu A-V**, Șorop A, Dima SO. The pivotal role of EMT-related noncoding RNAs regulatory axes in hepatocellular carcinoma. 2023; *Frontiers in Pharmacology*. 2023; 14:1270425.10.3389/fphar.2023.1270425. **FI=5.600**
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#### BDI

1. Uță M, **Ghionescu A**, Popa C, Nichita N, Coriu D. Investigation of Molecular Mechanisms Involved in Hepatitis B Virus Associated B-cell Non-Hodgkin Lymphoma (B-NHL). *Documenta Haematologica - Revista Romana de Hematologie*. 2023; 1(2). <https://doi.org/10.59854/dhrrh.2023.1.2.59>
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### PROJECTS

1. Project: "**Pathogenic mechanisms and personalized treatment in pancreatic cancer using multi-omics technologies**" (**PANCNGS**); project number PNIII-P1-1.2-PCCDI-2017-0797
2. Project: "**Implementing a multiplex methodology for rapid testing of hepatic viruses**" (**MULTIHEP**); project number PN-III-P2-2.1-PTE-2019-0226.
3. Project: "**Label-free, real-time detection platform of Hepatitis B Virus antigens with protein biosensors**" (**HEPATVIRDETECT**), project number PN-III-P2-2.1-PED- 2019-0016

### WORK EXPERIENCE

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-Techniques for determination of protein concentration (Bradford, BCA, Lowry)  
-Protein purification and separation techniques: ion exchange chromatography, affinity chromatography, gel filtration, dialysis, N-glycan analysis-enzymatic cleavage, ultracentrifugation  
-Protein identification and analysis techniques: Western Blot, Immunofluorescence, Coomassie Blue, ELISA  
-Cell biology: mammalian cell cultures, transient/stable transfections in mammalian cells  
-Molecular biology techniques: extractions, purifications, qualitative and quantitative control of nucleic acids, electrophoresis, PCR, q-RT PCR, RFLP-PCR, Sanger sequencing  
-Genetic editing technologies (CRISPR-CAS9), molecular cloning techniques, bacterial transformation  
-Processing of biological samples, biobanking, biobank records and database integration  
-Techniques for working with human hepatitis B virus (HBV): HBV production in HepG2.2.2.15 cells; HBV transfections in HepG2, Huh7 cell lines; HBV infections in differentiated HepaRG cells and HepG2-hNTCP cells; purification of viral nucleocapsids; quantification of viral DNA by real-time qPCR; RNA extraction and quantification by RT-qPCR; detection of HBsAg and HBeAg; SVP purification

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