



Andrei-Mihai Vasilescu

Nationality: Romanian **Date of birth:** 03/05/1993 **Place of birth:** Buzau, Romania

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ABOUT ME

I am a Research Assistant in Biology. This position allowed me to develop valuable technical and laboratory skills, an interdisciplinary, analytical, scientific and ever skeptical thinking, a strong sense for detail analysis and the capacity to work in a team with dedication, determination and responsibility. Additionally, I have developed the capacity and passion that are essential in science and the ability to present complex and interconnected subjects with enthusiasm, creativity and efficiency. The endless beauty of nature and its mysteries, curiosity, the desire to explore and the warmth and kindness of people will always inspire me. I am excited and profoundly motivated to offer my contributions, abilities and passion to the scientific world, in an interesting research position that is highly challenging and offers the opportunity to extend the knowledge of humanity.

WORK EXPERIENCE

The Institute of Biochemistry of the Romanian Academy – Bucharest, Romania

Address: Splaiul Independentei, Nr. 296, 060031 Bucharest (Romania) |

Name of unit or department: Enzymology - **Business or sector:** Professional, scientific and technical activities

Research Assistant in Biology

[02/01/2021 – Current]

1. experimental design
2. execution of laboratory techniques: recombinant protein design, drug design, Prokaryote and Eukaryote protein expression and purification, electrophoresis, Western blot, protein structural studies, cell culture, cell viability studies, PCR, DNA cloning, site-directed mutagenesis, immunohistochemistry, fluorescence microscopy, flow cytometry
3. research grant preparation and writing for national and European calls, including HORIZON

"Cantacuzino" National Institute of Research and Development – Bucharest, Romania

Address: Splaiul Independentei, Nr. 103, 050096 Bucharest (Romania) |

Name of unit or department: Immunology
Business or sector: Professional, scientific and technical activities

Research Assistant in Biology

[31/08/2020 – 30/12/2020]

1. cell culture
2. cell functional studies - MTT Assay
3. fluorescence microscopy
4. ELISA
5. endotoxin assay
6. flow cytometry

EDUCATION AND TRAINING

PhD Student

The School of Advanced Studies of the Romanian Academy (SCOSAAR) [02/11/2020 – Current]

Address: The Institute of Biochemistry of the Romanian Academy, Splaiul Independentei, Nr. 296, 060031 Bucharest (Romania) | Website: <https://acad.ro/scosaar/>; <https://www.biochim.ro/> | Field(s) of study: Natural sciences, mathematics and statistics: • Biology • Biochemistry ; Proteomics ; Molecular Biology ; Genetics | Level in EQF: EQF level 8 | NQF Level: Level 8 ISCED | Type of credits: ECTS | Thesis: Development of an anti-B7-H3 Cytotoxic Affibody with potential in Acute Myeloid Leukemia immunotherapy

Master's Degree in Applied Genetics and Biotechnology

Faculty of Biology, The University of Bucharest [30/09/2018 – 28/06/2020]

Address: Splaiul Independentei, Nr. 91-95, sector 5, 050095 Bucharest (Romania) | Website: <https://www.bio.unibuc.ro/index.php> | Field(s) of study: Natural sciences, mathematics and statistics: • Biology • Biochemistry • Statistics ; Genetics ; Molecular Genetics ; Epigenetics ; Cell Biology | Final grade: 10 | Level in EQF: EQF level 7 | NQF Level: Level 7 ISCED | Type of credits: ECTS | Number of credits: 180 | Thesis: Modulation of Telomerase Activity in Acute and Chronic Leukemia

Bachelor's Degree in Biology

Faculty of Biology, The University of Bucharest [30/09/2015 – 05/09/2018]

Address: Splaiul Independentei, Nr. 91-95, sector 5, 050095 Bucharest (Romania) | Website: <https://www.bio.unibuc.ro/index.php> | Field(s) of study: Natural sciences, mathematics and statistics: • Biology • Biochemistry • Statistics • Chemistry | Final grade: 9.37 | Level in EQF: EQF level 6 | NQF Level: Level 6 ISCED | Type of credits: ECTS | Number of credits: 180 | Thesis: The Role of Telomeres in Acute and Chronic Leukemia

Teaching Diploma Level I and Level II

Faculty of Psychology and Education Sciences, The University of Bucharest [2015 – 2020]

Address: Șos. Panduri, nr. 90, sector 5, 050663 Bucharest (Romania) | Website: <http://fpse.unibuc.ro/>

High School Diploma

"B.P. Hasdeu" National College [08/2008 – 07/2012]

Address: Bd. Gării, Nr. 1, 120218 Buzău (Romania) | Website: <https://bphasdeu.ro/> | Field(s) of study: Natural sciences, mathematics and statistics: • Biology • Environmental sciences | Final grade: 9.30

School Diploma

School Nr. 16 "Ion Creangă" [08/2000 – 06/2008]

Address: Victoriei Str., Nr. 58, 120094 Buzău (Romania)

RESEARCH PROJECTS

[01/02/2022 – 31/12/2024]

Bilateral Collaboration between Romanian Academy and Hungarian Academy - Radiolabelling of affibody for tumor diagnostic and theranostic application in the nuclear medicine

[31/01/2021 – 31/10/2022]

PN-III-P2-2.1-PED-2019-4184 (no: 548/2020, "The Development in Oncology of Novel Radiopharmaceuticals and Nuclear Techniques for Diagnostic Imaging and Personalized Treatment at Molecular Level" (NARAD)

[02/01/2021 – 30/09/2021]

PN-III-P1-1.2-PCCDI-2017-0737 (no:35/2018), "Genomic mapping of population from polluted area with radioactivity and heavy metals to increase national security" (ARTEMIS)

PUBLICATIONS

[2025]

A novel cytotoxic anti-B7-H3 affibody with therapeutic potential in acute myeloid leukemia Authors: **Vasilescu, A.-M.**, Vasilescu, A.-G., Sima, L. E., Munteanu, C. V. A., Baran, N. & Szedlacsek, Ş.-E. *Frontiers in Pharmacology*, 16:1684226.

DOI:10.3389/fphar.2025.1684226

[2025]

Breaking the cancer code: a novel DNA minicircle to disable STAT3 in ovarian cancer cells SKOV3 Authors: Vasilescu, A.-G., **Vasilescu, A.-M.**, Sima, L. E., Baran, N. & Szedlacsek, Ş.-E. *Frontiers in Pharmacology*, 16:1673427.

DOI:10.3389/fphar.2025.1673427

[2023]

Synthesis and characterization of a novel [52Mn]Mn-labelled affibody based radiotracer for HER2+ targeting Authors: Balázs Váradi, Károly Brezovcsik, Zoltán Garda, Enikő Madarasi, Horea Szedlacsek, Rodica-Aura Badea, **Andrei-Mihai Vasilescu**, Adina-Gabriela Puiu, Aura Elena Ionescu, Livia-Elena Sima, Cristian V. A. Munteanu, Simona Călăraş, Adrienn Vágner, Dezső Szikra, Ngô Minh Toàn, Tibor Nagy, Zoltán Szűcs, Stefan Szedlacsek, Gábor Nagy, Gyula Tirscó. *Inorganic Chemistry Frontiers*, 10, 4734-4745.

DOI: <https://doi.org/10.1039/D3QI00356F>

[2020]

Comparative Analysis Between Cellular Oncogenes and Viral Oncogenes Authors: Adina-Gabriela Puiu, Oana Grigoras, Maria-Irina Preda, Marian Constantin, **Andrei-Mihai Vasilescu**. *Biointerface Research in Applied Chemistry*, Volume 115, page 9939-9951.

DOI:10.33263/BRIAC113.99399951

CONFERENCES AND SEMINARS

[05/07/2025 – 09/07/2025] Istanbul, Turkey

The 49th FEBS Congress Poster presentation - Title: A novel cytotoxic fusion protein targeting B7-H3 for acute myeloid leukemia therapy; Authors: **Vasilescu, A.**, Puiu, A., Szedlacsek, S. **Poster participation** - Title: Development of a novel small circular DNA decoy inhibitor targeting STAT3 for cancer therapy; Authors: Puiu, A., **Vasilescu, A.**, Szedlacsek, S.

[02/10/2024 – 03/10/2024] The Institute of Biochemistry of the Romanian Academy, Bucharest, Romania

NanoTemper Seminar & Hands-On Workshop

[02/09/2024 – 02/09/2024] The Romanian Academy, Bucharest, Romania

"Frontiers in Biochemistry - Perspectives" Zhejiang University - Romanian Academy Symposium Talk with the title: Rationally-Designed Targeting Agents in Cancer and Neurodegenerative Disorders

[21/03/2023 – 24/03/2023] Online

Sigma Xience Workshop Organized by the Sigma Xi Honor Society

[25/10/2022 – 25/10/2022] Sheraton Hotel, Arizona & Colorado Conference Room, Bucharest, Romania

Fit for purpose – Merck Life Science solutions for all your needs

[15/10/2022 – 19/10/2022] Barcelona, Spain

The 35th Annual Congress of the European Association of Nuclear Medicine Poster participation - Title:

Labeling of anti-HER2-affibodies with ⁵²Mn via pyclyen-based bifunctional ligands: from ligand design to in vivo PET/MR experiments; Authors: Váradi, B., Garda, Z., Madarasi, E., Brezovcsik, K., Vágner, A., Nagy, T., Garai, I. M., Puiu, A. G., **Vasilescu, A. M.**, Szűcs, Z., Szedlacsek, S. E., Nagy, G., Tírfél, Gy.

[18/10/2019 – 18/10/2019] Bucharest, Romania

Genomics from a Biophysicist's Perspective

[13/04/2017 – 13/04/2017] Bucharest, Romania

The 47th Annual Conference of Immunology with international participation

SKILLS

Research and scientific writing / Ability in the organization and development of research projects / disseminate results to the scientific community / Genomics Bioinformatics Tools / BioRender (Scientific illustrations) / data visualisation software / multidisciplinary research / identify research topics / use microsoft office / Social Media / Google Drive / Zoom / video conferencing tool / think creatively

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

French

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

COMMUNICATION AND INTERPERSONAL SKILLS

Language Certificates

- English - Cambridge ESOL Level 3 CAE - C2 - ESOL Examinations, University of Cambridge
- French - B1 - Faculty of Foreign Languages and Literatures, The University of Bucharest

Interpersonal Skills

Effective and harmonious teamwork, team organization and motivation, project management, conflict resolution

DRIVING LICENCE

Driving Licence: B

HOBBIES AND INTERESTS

Passionate about music, film, singing, debates, travel