

GIORGIANA GABRIELA NEGREA

EDUCATION & TRAINING

- 2020-Present **Doctorate in BIOLOGY**
 Doctoral School in Integrative Biology, Faculty of Biology and Geology, “Babeş-Bolyai” University, Cluj-Napoca (Romania)
PhD thesis title: Advancing Melanoma Treatment: Targeted Therapeutic Strategies to Overcome Drug Resistance (Progrese in Tratatamentul Melanomului: Strategii Terapeutice Țintite pentru Combaterea Rezistenței la Medicamente) (thesis coordinator: prof. univ. dr. Banciu Manuela)
- 2018–2020 **Master’s degree in biology - MOLECULAR BIOTECHNOLOGY**
 Faculty of Biology and Geology, “Babeş-Bolyai” University, Cluj-Napoca (Romania)
- 2018–2020 **Pedagogical module Level II**
 Department for Didactic Staff Training, “Babeş-Bolyai” University, Cluj-Napoca (Romania)
- 2015–2018 **Bachelor’s degree in biology - BIOCHEMISTRY**
 Faculty of Biology and Geology, “Babeş-Bolyai” University, Cluj-Napoca (Romania)
 Graduated as a valedictorian
- 015–2018 **Pedagogical module Level I**
 Department for Didactic Staff Training, “Babeş-Bolyai” University, Cluj-Napoca (Romania)
- 2010–2014 **HIGH SCHOOL degree**
 “Avram Iancu” High school, top 3 ranking in Cluj-Napoca (Romania)
 Intensive courses of biology, chemistry, and informatics. Final GPA (4-year program): 9.53 / 10

WORK EXPERIENCE

- 2022-Current **Research Assistant**
 Faculty of Biology and Geology, Babeş-Bolyai University, Cluj-Napoca (Romania)
 Research project: PN-III-P2-2.1-PED2021-0411, contract no: 659PED/2022 entitled “*In vitro* 3D co-culture system for the screening of anticancer drugs and exploration of intratumoral cellular interactions”
- 2020-Current **Academic teaching associate**
 Molecular Biology and Biotechnology Department Laboratory, Faculty of Biology and Geology, Babeş-Bolyai University, Cluj-Napoca (Romania)
 1. Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, Babeş-Bolyai University, Cluj-Napoca (Romania). Teaching Structural Biochemistry, Biochemistry of Metabolism, Protein Biochemistry (with elements of proteomics), Carbohydrates & Lipid Biochemistry - Practical courses, seminars and final evaluations for Ist and IInd year bachelor students.
 2. Co-coordinator of graduation thesis for bachelor and master students in Biology of Cancer and Immunology.
- 11/2021-05/2022 **Postgraduate programme for permanent education, and professional improvement of adults**
 “UBB Entrepreneur” AUBB – POCU/379/6/21/124662

ADDITIONAL INFORMATION

- Awards & bursaries**
- [**Open Science Fellowship**] – Granted by Babes-Bolyai University, code 33.316/15.07.2024 in the project CNFIS-FDI-2024-F-0456, July 2024.
 - [**Bursary and Travel grant**] granted by Federation of European Biochemical Societies (FEBS), as financial assistance for attending FEBS congress, Milan Italy, July 2024.
 - [**First-place award**] in a training program: AUBB competition (Postgraduate programme for permanent education, and professional improvement of adults, “UBB Entrepreneur”), project code: POCU/379/6/21/124662 (continuous professional development program), June 2023.

[Best Poster Presentation Award] – Provided by Conference Committee - Connecting Scientists and Physicians for Next Generation Cancer Management, 2nd Edition of the OncoHub Conference, Brasov, Romania, September 2022.

[Young Researchers OncoHub bursary] - Sponsored by OncoHub Conference Committee -Connecting Scientists and Physicians for Next Generation Cancer Management, 2nd Edition of the OncoHub Conference, Brasov, Romania, July 2022.

**Participation
in
national/
international
funding
projects**

[Research assistant] in UEFISCDI Research project: PN-III-P2-2.1-PED2021-0411, contract no: 659PED/2022 entitled “In vitro 3D co-culture system for the screening of anticancer drugs and exploration of intratumoral cellular interactions” (June 2022-June 2024).

[Doctoral researcher] in Internal research project: Reprogramming the cellular metabolism - target for antitumor therapies applied within melanoma (September 2021- September 2024).

[Member] in UEFISCDI grant, Project code: PN-III-P4-ID-PCE-2016-0342/Tumor intercellular communication tools-inspiration for future tumor-targeted therapies - biologist volunteer (October 2020-August 2021).

[Member] in UEFISCDI Research project: PN-II-PT-PCCA-2011-3-2-1060/ Development and preclinical evaluation of nanoparticle drug delivery systems for targeted antitumor therapy of colorectal cancer (January 2019-August 2020).

Presentations

I have attended over *10 conferences, with oral and/or poster presentation* such as: the **48th FEBS Congress (July 2024, Milano, Italy)**, **EMBO Congress (Rimini, Italy 2024)**; RoBioinfo Conference (**Cluj-Napoca**, Romania, 2024), BIO.T.A - Biodiversity, Traditions and Actuality (Cluj-Napoca, Romania, 2024 and 2022), RSCB (**Cluj-Napoca**, Romania, 2022), BIO.T.A (2023, Cluj-Napoca, Romania), SRBBM (2023, Cluj-Napoca, Romania), Young Researchers in BioSciences International Symposium (2021, Cluj-Napoca, Romania), Young BM (2019, **Madrid, Spain**), Oncohub (**Poiana Braşov**, Romania, 2022), LISA Summer Academy (**Hanover** Biomedical Research School, **Germany**, 2019).

Publications

Negrea, G., Rauca, V. F., Meszaros, M. S., Patras, L., Luput, L., Licarete, E., Toma, V. A., Porfire, A., Muntean, D., Sesarman, A., & Banciu, M. (2022). Active Tumor-Targeting Nano-formulations Containing Simvastatin and Doxorubicin Inhibit Melanoma Growth and Angiogenesis. *Frontiers in pharmacology*, 13, 870347. <https://doi.org/10.3389/fphar.2022.870347>.

Sesarman, A., Luput, L., Rauca, V., Patras, L., Licarete, E., Meszaros, S., Dume, B., **Negrea, G.**, Toma, V., Muntean, D., Porfire, A., Banciu, M. (2024). Targeting of M2 macrophages with IL-13-functionalized liposomal prednisolone inhibits melanoma angiogenesis in vivo. *Journal of Liposome Research*, 34(4), 535–546. <https://doi.org/10.1080/08982104.2024.2315452>

Patras L, Sesarman A, **Negrea G**, Dragan SM, Meszaros M-S, Licarete E, Rauca V, Luput L, Alupeii M, Porfire A, Banciu M. Cancer therapeutic strategies to rewire tumor microenvironment .SEE J Immunol. 2025 Mar 27;8 (CITIM):030. <https://doi.org/10.3889/seejim.2025.6091>

Tóth, Z. R., Kiss, J., Todea, M., Kovács, G., Gyulavári, T., Sesarman, A., **Negrea, G.**, Vodnar, D. C., Szabó, A., Baia, L., & Magyari, K. (2022). Bioactive Properties of Composites Based on Silicate Glasses and Different Silver and Gold Structures. *Materials (Basel, Switzerland)*, 15(5), 1655. <https://doi.org/10.3390/ma15051655>.

Tóth, Z. R., Kiss, J., Todea, M., Kovács, G., Gyulavári, T., Sesarman, A., **Negrea, G.**, Vodnar, D. C., Szabó, A., Baia, L., & Magyari, K. (2022). Bioactive Properties of Composites Based on Silicate Glasses and Different Silver and Gold Structures. *Materials (Basel, Switzerland)*, 15(5), 1655. <https://doi.org/10.3390/ma15051655>

Patras, L., Ionescu, A. E., Munteanu, C., Hajdu, R., Kosa, A., Porfire, A., Licarete, E., Rauca, V. F., Sesarman, A., Luput, L., Bulzu, P., Chiroi, P., Tranca, R. A., Meszaros, M., **Negrea, G.**, Barbu-Tudoran, L., Potara, M., Szedlacsek, S., & Banciu, M. (2022). Trojan horse treatment based on PEG-coated extracellular vesicles to deliver doxorubicin to melanoma in vitro and in vivo. *Cancer biology & therapy*, 23(1), 1–16. <https://doi.org/10.1080/15384047.2021.2003656>

12.04.2025

Negrea G.

