



## Bogdan-Răzvan Dume

**Address:** Romania

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**Nationality:** Romanian

### WORK EXPERIENCE

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[ 2021 – Current ] **Research assistant**

***Babeş-Bolyai University - Faculty of Biology and Geology***

**City:** Cluj-Napoca

**Country:** Romania

**Main activities and responsibilities:**

Research project: PN-III-P1-1.1-TE-2019-1320 entitled Targeted blocking of Hif-1 $\alpha$  gene to enhance the antitumor effect of a combination therapy based on immunotherapy and chemotherapy in melanoma. Performing *in vitro* and *in vivo* experiments to prove the effectiveness of combined immunotherapy and chemotherapy in murine melanoma.

[ 2021 – Current ] **Teaching associate**

***Babeş-Bolyai University - Faculty of Biology and Geology***

**City:** Cluj-Napoca

**Country:** Romania

**Main activities and responsibilities:**

Biochemistry practical courses for first and second year students.

### EDUCATION AND TRAINING

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[ 2021 – Current ] **PhD student**

***Babeş-Bolyai University - Faculty of Biology and Geology, Doctoral School of Integrative Biology***

**Address:** Cluj-Napoca, Romania

**Thesis:** Therapeutic targeting of tumor hypoxic response with oligonucleotide delivery systems

[ 2019 – 2021 ] **Pedagogical module Level II**

***Babeş-Bolyai University - Department for Didactic Staff Training***

**Address:** Cluj-Napoca, Romania

[ 2019 – 2021 ] **Master's Degree in Biology - Molecular Biotechnology**

***Babeş-Bolyai University - Faculty of Biology and Geology***

**Address:** Cluj-Napoca, Romania

[ 2016 – 2019 ] **Pedagogical module Level I**

*Babeş-Bolyai University - Department for Didactic Staff Training*

**Address:** Cluj-Napoca, Romania

[ 2016 – 2019 ] **Bachelor's Degree in Biology - Biochemistry**

*Babeş-Bolyai University - Faculty of Biology and Geology*

**Address:** Cluj-Napoca, Romania

## LANGUAGE SKILLS

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**Mother tongue(s):** Romanian

**Other language(s):**

**English**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

## DIGITAL SKILLS

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Microsoft Office | Adobe Photoshop | GraphPad Statistics | ImageJ | TotalLab

## Publications

- Toma, V. A., Dume, B. R., Sevastre-Berghian, A., Tranca, R., Sevastre, B., Barbu, L., ... & Roman, I. Co-Enhancing of Neuroglobin-Oligodendrocytes Function is a Stress Response Tuner for the CA3 Hippocampal Area with Involvements in Etiology of Stress-Induced Anxiety.
- Opris, R. V., Toma, V., Baci, A. M., Moldovan, R., Dume, B., Berghian-Sevastre, A., ... & Florea, A. (2021). Neurobehavioral and Ultrastructural Changes Induced by Phytosynthesized Silver-Nanoparticle Toxicity in an In Vivo Rat Model. *Nanomaterials*, 12(1), 58.
- Marc, G., Stana, A., Franchini, A. H., Vodnar, D. C., Barta, G., Tertiş, M., ... & Oniga, O. (2021). Phenolic Thiazoles with Antioxidant and Antiradical Activity. Synthesis, In Vitro Evaluation, Toxicity, Electrochemical Behavior, Quantum Studies and Antimicrobial Screening. *Antioxidants*, 10(11), 1707.
- Toma, V. A., Colnita, A., Brezestean, I., Dume, B., Roman, I., & Turcu, I. (2021). THE COMPLEMENTARY ROLE OF THE RAMAN MICROSCOPY TO THE OXIDATIVE STRESS ASSAYS IN THE NEONATAL SYNAPTOSOMES CHARACTERIZATION. *Studia Universitatis Babeş-Bolyai, Chimia*, 66(3).
- Negrea, G., Rauca, V. F., Pătraş, L., Luput, L., Licărete, E., Toma, V. A., ... & Sesărman, A. (2021). Novel combined therapy based on IL-13-PEG-LCL-SIM and PEG-EV-DOX to reduce murine melanoma aggressiveness in vivo. *Studia Universitatis Babeş-Bolyai, Biologia*, 66(1).
- Licărete, E., Rauca, V. F., Luput, L., Drotar, D., Stejerean, I., Patras, L., ... & Banciu, M. (2020). Overcoming intrinsic doxorubicin resistance in melanoma by anti-angiogenic and anti-metastatic effects of liposomal prednisolone phosphate on tumor microenvironment. *International Journal of Molecular Sciences*, 21(8), 2968.
- FARCAŞ, A. D., ALEXANDRU, T. V., FLORINA, C., BOGDAN, R., & IOANA, R. (2018). The down-regulation outcome of wild European apple (*Malus sylvestris* (L.) Mill.) extract on a series of biochemical markers during oxidative stress. *Annals of RSCB*, 22(2), 34-41. doi:10.ANN/RSCB-2018-00019:RSCB
- TOMA, V. A., DUME, B. R., FARCAŞ, A. D., & ROMAN, I. (2018). The antioxidants are not enough. *Malus sylvestris* (L.) Mill. extract enhances the carbon tetrachloride liver toxicity in albino rats. *Annals of RSCB*, 22(2), 26-33. doi:10.ANN/RSCB-2018-00018:RSCB

## Conferences

- Poster presentation: **Bogdan Dume**, Laura Pătraş, Andrei Marinescu, Patriciu Roşca, Manuela Banciu, Bogdan Sevastre, Vlad Al. Toma, Effects of Cannabidiol administration on the hippocampal morphology and neurosecretion in rats exposed to repeated restraint stress. The 12<sup>th</sup> National Pathology Symposium, Bucharest 2019.
- Oral presentation: **Dume Bogdan**, Astromicrobiology - from Terrestrial to Cosmic Biology. International Day of Microorganism, Bucharest 2019.
- Poster presentation: **B. R. Dume**, Ioana Roman, Anca Farcas, V. A. Toma, Neuro-immune interactions during luteolin therapy after exposing rats to a toxic dose of cyclophosphamide. The 10<sup>th</sup> National Congress with International Participation and the 36<sup>th</sup> Annual Scientific Session of the Romanian Society for Cell Biology, Craiova 2018.

## Awards

Winner of Scientific Performance Scholarship from Babeş-Bolyai University (2018-2019) with the experiment: Antioxidant and Neuro-regenerative properties of Cannabidiol on the hippocampus and on the oxidative stress status in rats exposed to repeated restraint stress.