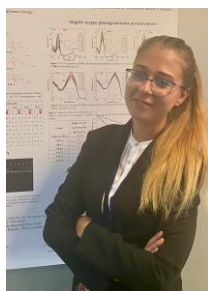


PERSONAL INFORMATION

Bianca-Alexandra Vasile (Stoean)



📍 Cluj-Napoca (Romania)
 ✉ bianca.stoean@ubbcluj.ro
 Sex | Date of birth | Nationality

EDUCATION AND TRAINING

- 2011-2015 **Highschool Diploma**
 Colegiul National "Calistrat Hogas", Piatra-Neamt, (Romania)
- 2015-2019 **Bachelor's Degree in Chemical Engineering**
 Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)
 Organic Chemistry, Oil and Coal Chemistry and related engineering subjects
- 2019-2021 **Master's Degree**
 Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)
 Clinical Chemistry
- 2021- Present **Phd student in Chemistry**
 Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)

RESEARCH EXPERIENCE

- 2023 - Present Research Associate Assistant in Chemistry at Babeş-Bolyai University (Cluj-Napoca, Romania) INSPIRE Platform (part-time) - POC/448/1/1/127725
- 2024 - Present Research Associate Assistant in Chemistry at Babeş-Bolyai University (Cluj-Napoca, Romania) "Targeted Tumor Therapy with multifunctional platinum(IV)-drug conjugates, T3Pt, (part-time) PNRR-III-C9-2023-I8-CF"
- 2019 - 2023 Research Associate Assistant in Chemistry at Babeş-Bolyai University (Cluj-Napoca, Romania) "Tumor-Specific Optical Nanoprobes for Real-Time Guidance of Ovarian Cancer Surgery by Near-Infrared (NIR) Contrast Imaging-(Nano-NIRSurgery)", (part-time) PN-III-P4-ID-PCCF-2016-0142

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	B2	B2	A2	A2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Organisational / managerial skills ▪ good coordinating skills (have been in charge of coordinating our team in the laboratory)

Job-related skills ▪ good command of laboratory equipment
 ▪ organic synthesis and skills to solve engineering problems due to the projects made during the experiments

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Basic user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- Matlab basic user
- ChemCad user
- Solid Edge user
- MS Office user
- OriginPro user

Driving licence AM, B1, B

Conferences

Stoean B., Gaina L., Cristea C.*, Silaghi-Dumitrescu R., Branzanic M.V. A., Focsan M., Fischer-Fodor E., Silaghi-Dumitrescu L., New methylene blue analogues with N-piperidiny-carbinol units: Synthesis, optical properties and in vitro internalization in human ovarian cancer cells., National Conference of Chemistry, 2022, Călimanesti-Căciulata, România

Cristea C., Gaina L., **Stoean B.**, Gal M., Gal E., Silaghi-Dumitrescu L., Focsan M., Fischer-Fodor E., Fluorescence imaging of ovarian cancer cells using novel methylene blue analogues, 22th Tetrahedron Symposium, 2022, Lisabona, Portugalia

Stoean B., Cristea C., Gaina L., New contrast agents containing methylene blue analogues customized for bioimaging of cancer cells, a XVI-a ediție a Sesiunii de Comunicări Științifice Studențești (SCSS 2021), Bucuresti, România.

Stoean B., Cristea C., Gaina L., New folic acid esters with analogues of methylene blue-contrast agents for bioimaging of cancer cells, XVIIth edition of International Conference "Students for Students", Cluj-Napoca, România

Stoean B., Gaina L., Synthesis and characterization of new precursors of photochromic dyes, XVIIth edition of International Conference "Students for Students", Cluj-Napoca, Romania

Scientific Publications

B. Stoean, M. Lehene, C. Zagrean-Tuza, R. Silaghi-Dumitrescu, C. Cristea, L. Gaina, *Transient radical species and oxygen colorimetric indicators grounded on phenothiazinium dyes*, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **320** (2024) 124602. <https://doi.org/10.1016/j.saa.2024.124602>

B. Stoean, I. Lupan, C. Cristea, M. Silion, L. Silaghi-Dumitrescu, R. Silaghi-Dumitrescu, L.I. Gaina, *Outcomes of folic acid esterification upon the properties of hydrophilic phenothiazinium dyes: New photosensitizers for antimicrobial photodynamic therapy*, *Journal of Photochemistry and Photobiology A: Chemistry*, **451** (2024) 115500. <https://doi.org/10.1016/j.jphotochem.2024.115500>

O. Rudenco, M. Lehene, A. Lupan, C. Zagrean-Tuza, **B. Stoean**, A. Gaina-Gardiuta, A.M. Ulici, R. Silaghi-Dumitrescu, *Versatility of thiourea dioxide as redox agent in globins: Case study with myoglobin*, *Inorganica Chimica Acta*, **551** (2023) 121474. <https://doi.org/10.1016/j.ica.2023.121474>

S. Grama, **B. Stoean**, A. Turza, D. Porumb, C. Cristea, L. Silaghi-Dumitrescu, *Structural and Optical Insights into a Phenothiazine-derived Chalcone Synthesized via Eco-Friendly Methods*, *Studia Universitatis Babes-Bolyai, Seria Chemia*, **2023** (2023) 110460. <https://doi.org/10.1016/j.dyepig.2022.110460>

S. Groza, **B. Stoean**, A. Grozav, A.M. Craciun, C. Cristea, L. Silaghi-Dumitrescu, D. Porumb, *Synthesis and Optical Properties of Novel Strontium Tetranitrophthalocyanine*, *Studia Universitatis Babes-Bolyai, Seria Chemia*, **2023** (2023) 17–26. <https://doi.org/10.24193/subbchem.2023.4.02>

B. Stoean, L. Gaina, C. Cristea, R. Silaghi-Dumitrescu, A.M.V. Branzanic, M. Focsan, E. Fischer-Fodor, B. Tigu, C. Moldovan, A.D. Cekan, P. Achimas-Cadariu, S. Astilean, L. Silaghi-Dumitrescu, *New methylene blue analogues with N-piperidinyl-carbinol units: Synthesis, optical properties and in vitro internalization in human ovarian cancer cells*, *Dyes and Pigments*, **205** (2022) 110460. <https://doi.org/10.1016/J.DYEPIG.2022.110460>

M. Gal, A. Turza, **B. Stoean**, L. Gaina, C. Cristea, E. Gal, T. Lovasz, D. Porumb, L. Silaghi-Dumitrescu, *Alternative Procedures for the Green Synthesis of 3,7-Bis(N,N-(2-Hydroxyethyl)Amino)Phenothiazinium Dye*, *Studia Universitatis Babes-Bolyai, Seria Chemia*, **67** (2022) 303–314. <https://doi.org/10.24193/subbchem.2022.4.20>

B. Stoean, L. Gaina, E. Gal, C. Cristea, T. Lovasz, L. Silaghi-Dumitrescu, *Examination of (Phenothiazinyl)vinyl-pyridinium dye's capacity of interaction with DNA*, *Studia Universitatis Babes-Bolyai, Seria Chemia*, **66** (2021) 59–66. <https://doi.org/10.24193/subbchem.2021.2.05>

B. Stoean, D. Rugina, M. Focsan, A.M. Craciun, M. Nistor, T. Lovasz, A. Turza, I.D. Porumb, E. Gál, C. Cristea, L. Silaghi-Dumitrescu, S. Astilean, L.I. Gaina, *Novel (Phenothiazinyl)vinyl-pyridinium dyes and their potential applications as cellular staining agents*, *International Journal of Molecular Sciences*, **22** (2021) 1–21. <https://doi.org/10.3390/ijms22062985>

Prizes and scholarships

Scholarship for scientific activity in the academic year 2019-2020 offered by the Scientific Council of Babeş-Bolyai University

Mention - for the special results presented during the Scientific Communications Session, 16th edition, May 28-29, 2021, Bucharest, Romania

Special award - the most active master student, International Summer School FOOD SAFETY AND HEALTHY LIVING FSHL - 2020, 5-8 July 2020, online

Special award from the Romanian Chemical Society obtained during the International Conference "Students for Students", XVIth edition, 4-7 April 2019, Cluj-Napoca, Romania

Doctoral Advanced Fellowship (CNFIS-FDI-2023-F-0214) from Babeş-Bolyai University

Doctoral Advanced Fellowship (nr.21PFE/ 30.12.2021, ID: PFE-550-UBB) from Babeş-Bolyai University.