


PERSONAL INFORMATION

Julia BAUMLI



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Date of birth 16/09/2001 | Nationality Romanian

ABOUT ME: An enthusiastic graduate of the Biochemical Engineering program and the Clinical Chemistry master's degree, with a strong interest in applying chemical principles to the development of innovative solutions. Experienced in the design and optimization of biochemical processes, as well as in the analysis and interpretation of experimental data using advanced analytical techniques and instrumentation. I am a proactive, creative, and results-oriented individual, eager to learn and to approach complex challenges in this field with enthusiasm and professionalism.

EDUCATION AND TRAINING

 Oct 2025 – Present **PhD in Chemistry**

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Str. Arany Janos nr. 11, 400028 Cluj-Napoca, Romania

 Oct 2024 – Present **MSc degree in Chemistry Education**

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Str. Arany Janos nr. 11, 400028 Cluj-Napoca, Romania

 Oct 2023 – Jul 2025 **MSc degree in Clinical Chemistry**

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Str. Arany Janos nr. 11, 400028 Cluj-Napoca, Romania

- Title of dissertation : BIOACTIVITY PROFILING OF *LAMIUM ALBUM* BY HIGH-PERFORMANCE THIN-LAYER CHROMATOGRAPHY COMBINED WITH EFFECT-DIRECTED ANALYSIS AND HIGH-RESOLUTION TANDEM MASS SPECTROMETRY

 Oct 2019 - Jul 2023 **BSc degree in Chemical Engineering, Biochemical Engineering**

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Str. Arany Janos nr. 11, 400028 Cluj-Napoca, Romania

- Title of thesis: ENZYME-ASSISTED EXTRACTION OF BIOACTIVE COMPOUNDS FROM *LAMIUM ALBUM* AND THEIR ANALYSIS

 Oct 2019 – Jul 2022 **Psycho-Pedagogical Training Module – Level I**

Babeş-Bolyai University, Department for Teacher Training, Calea Moşilor 11, Cluj-Napoca 400001, Romania

- Sep 2015 – Jun 2019 **High School Diploma (Baccalaureate)**
Liceul Teoretic Carei, Str. Ignișului nr. 20, 445100 Carei, Romania
- Mathematics and Computer Science profile

PROFESSIONAL EXPERIENCE

- Aug 2021 – Present **Experience gained in a Research Center**
Research Center for Advanced Chemical Analysis, Instrumentation and Chemometrics (ANALYTICA), Str. Arany Janos nr. 11, 400028 Cluj-Napoca, Romania
Laboratory of Chromatography and Chemical Analysis of Natural Compounds
- Field of activity: Testing and identification of bioactive compounds from natural sources, as well as the analysis of their biological activities using chromatographic and spectrophotometric methods.
- Noi 2024 – Dec 2024 **Research Internship in Budapest**
HUN-REN Centre for Agricultural Research, 2462 Martonvásár, Brunszvik u. 2. Pf. 19, Budapest
- Jul 2024 – Jul 2024 **Individual Consultant – Animator 2024**
Target Group Facilitator within the project “An Open Gate Towards a Career in Chemistry” (AG141/SGU/PV/II / 27.05.2019)
Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Str. Arany Janos nr. 11, 400028 Cluj-Napoca, Romania
- Jul 2024 – Jul 2024 **Individual Consultant - Tutor 2024**
Tutor within the project “Non-formal Chemistry: Key Competences for a Successful Career in Chemistry and Chemical Engineering” (315 / SGU / PV / III / 18.06.2021)
Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Str. Arany Janos nr. 11, 400028 Cluj-Napoca, Romania
- Jul 2022 – Aug 2022 **Internship**
NCDO–INOE 2000, Branch of the Research Institute for Analytical Instrumentation (ICIA)
67 Donath Street, 400293 Cluj-Napoca, Romania
- Field of activity:** Study and application of analytical methods for the qualitative and quantitative analysis of various compounds in samples of natural origin.

PERSONAL SKILLS

Mother tongue(s) Romanian, Hungarian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	A2	A2	A1	A2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

DIGITAL COMPETENCE

SELF-ASSESSMENT

Information Processing	Communication	Content creation	Security	Problem solving
Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat

Levels: Basic user - Independent user - Proficient user

- Office suite (Microsoft Office Word, Excel, Power Point)
- ChemDraw, ChemCAD, Minitab
- Software CAD (SolidWorks, SolidEdge)
- Photoshop, Adobe Lightroom
- Zoom, Microsoft Teams, TeamViewer
- Matlab, Octave

OTHER SKILLS

- Research, documentation, and laboratory practice acquired over several years within the analytical chemistry research team of Babeş-Bolyai University, enabling the development of skills such as teamwork, task management, adherence to good laboratory practices in a clean and organized environment, practical and communication skills, operation of analytical instrument software, scientific literature research (SciFinder, PDB, ScienceDirect), and scientific writing.
- Engineering coursework completed within the faculty, including Heat Transfer and Thermal Equipment, Fluid Mechanics and Momentum Transfer, Mass Transfer, Mechanical Engineering Fundamentals, Chemical Process Automation, Chemical Process Optimization, CAD and engineering-specific software, providing solid competencies in application of engineering principles in process analysis, design, and optimization.
- Advanced master's-level training in Clinical Chemistry, with in-depth study of Medical Hematology, Molecular Immunology, Instrumentation and Analytical Techniques in Clinical and Forensic Laboratories, Legal and Illegal Drugs, Toxicology, Advanced Analytical Chemistry, Hyphenated Chromatographic Techniques, and Chemometrics. This training provided advanced competencies in complex analytical workflows, multivariate data analysis, method development and validation, interpretation of clinical and forensic analytical results, and the integration of instrumental data for decision-making in regulated laboratory environments.
- Master's Degree in Chemistry Education (Didactic Master's Program), focused on modern teaching methodologies, curriculum design, educational assessment, and student-centered learning strategies, with practical training in lesson planning, laboratory-based instruction, differentiation of learning tasks, and the adaptation of chemistry content for diverse educational needs, including inclusive education contexts.

DRIVING LICENCE

B, B1, AM

ADDITIONAL INFORMATION

Publications

- Baumli, J., Antal, N., Casoni, D., & Cimpoiu, C. (2023). Use of Secondary Metabolites Profiling and Antioxidant Activity to Unravel the Differences between Two Species of Nettle. *Plants*, 12(18), 3233.
- Roman, I., Moldoveanu, C., Drăgan, Ș., Baumli, J., Cimpoiu, C., & Toma, V. (2024). Neurotrophic effects of iridoid glycosides from *Lamium album* L. as natural GLP1-r modulators in repeated restraint stress. *Studia Universitatis Babeș-Bolyai Chemia*, 69(3), 35–53.
- Baumli, J., Mărincean, A., & Cimpoiu, C. (2025). Scanning of chicoric acid in different parts of *Cichorium intybus* by high-performance thin-layer chromatography with quantitation by image analysis. *JPC - Journal of Planar Chromatography - Modern TLC*, 37, 491–497.

Conferences

- International Conference “Students for Students”, 10th Edition, April 17–21, 2024
Poster presentation: Potential Biological Activities of *Lamium album* Extract
- 26th International Symposium for High-Performance Thin-Layer Chromatography, September 9–11, 2024. Poster presentation: HPTLC-Based Approach for Assay-Guided Evaluation of Potential Biological Activities and Iridoid Content of *Lamium album* Extracts

Scholarships
and awards

- **Academic Excellence Scholarships**, awarded by the Scientific Council of **Babeș-Bolyai University** over multiple semesters throughout the study period (2019–2024)
- **Special Scholarship for Scientific Activity**, awarded by the Council of **Babeș-Bolyai University** for the academic year 2023–2024
- **WFS Scholarship (World Federation of Scientists)**, awarded for the academic year 2023–2024
- **Didactic Master’s Scholarship**, academic year 2024–2025
- **Conference Scholarship**, awarded within the **26th International Symposium on High-Performance Thin-Layer Chromatography**