## RADU Alexandra

F, 21.10.1986, married

**Address:** Str. Sucevei, nr 13, Bistriţa **Telephone:** +40 744 924589 (mobile)

E-mail: eualex21@yahoo.com

PROFESSIONAL Research Assistant – January 2012 – onwards

EXPERIENCE Company: Babeş-Bolyai University

City: Cluj-Napoca

**Responsabilities:** - molecular cloning

- expression and purification of proteins

- assessed the purity of protein samples by SDS-PAGE

electrophoresis

enzyme kinetics

- fine organic synthesis

- HPLC analysis

- research reports

EDUCATION • 2011 – onwards

AND TRAINING **PhD**: Chemistry – Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai

University, Cluj-Napoca

• Enzymatic biotransformation in organic chemistry, NMR in Organic Chemistry, Stereochemistry and Supramolecular Chemistry

- Internship and specialization at MTA Institute of Enzymology, Budapest, Hungary
- Didactic activities (laboratory, seminar, license thesis and dissertations guidance)
- Summer School attendance
- Conference and workshops attendance

#### -2009 - 2011

**Master:** Cellular Biotransformation – Faculty of Biology and Geology, Babeş-Bolyai University, Cluj-Napoca

- Master Thesis Title: "Production and purification of polyclonal antibodies to separate (S)-ibuprofen from racemic mixture"
- Advanced Enzymology, Recombinant DNA Technology I & II, Advanced Biochemistry, Cellular Signaling, Applied Biotransformations in Food, Pharmaceutical and Organic Industries, Molecular Microbiology, Cell Culture, Advanced Engineering of Enzymatic and Fermentative Bioprocesses.
- Determination of parameters using the spectrophotometer
- Immunization and parameters monitoring of a rabbit group
- **2005 2009**

**Faculty:** Chemical Engineering – Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca

- Bachelor Thesis Title: "The biosynthesis of the (S)-enantiomer of ibuprofen"
- Organic Chemistry, Analytical Chemistry, Bioinorganic Chemistry, Microbiology, Biochemistry, Engineering of Bioprocesse, Enzymatic Technologies, Cell Biology and Molecular Genetics, Mycology, Drugs Biotechnology, Food Industry Biotechnologies, Biocatalysis
- Laboratory practice: drug synthesis and biochemical analysis
- Qualitative analysis using HPLC

# PERSONAL SKILS

## Foreign languages

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production		, , , , , , , , , , , , , , , , , , ,	
]	B2	Upper intermediate	В1	Intermediate	В1	Intermediate	В1	Intermediate	В1	Intermediate
(	C1	Advanced	C1	Advanced	B2	Upper intermediate	В2	Upper intermediate	В1	Intermediate

English

French

## Computer skills and competences:

- Microsoft Office: Word, Excel, PowerPoint
- Matlab, Solid Edge, ChemDraw, ChemCad, MestReNova

#### **Additional information:**

- Participation at the 3rd Internaţional Congress of Romanian Society of Cellular Biology, Arad Szeged, 2011; theme:
  "Production and purification of polyclonal antibodies to separate (S)-ibuprofen from racemic mixture"
- Participation at the 2nd Symposium on Biotransformation for Pharmaceutical and Cosmetic Industry (BPCI), Warsaw, 2014; theme "The Influence of Several Additives on the Phenylalanine Ammonia Lyase Activity"

#### Publications:

- o "*Candida antarctica* lipases acting as versatile catalysts for the synthesis of enantiopure (R)- and (S)-1-(2-phenylthiazol-4-yl)ethanamines", **A. Radu**, M.E. Moisă, M.I. Toşa, N. Dima, V. Zaharia, F.D. Irimie, J. Mol. Catal. B: Enzym., 107 (2014), pp. 114–119
- "The Interaction of Nitrophenylalanines with Wild Type and Mutant 4-Methylideneimidazole-5-one-less Phenylalanine Ammonia Lyase", M.I. Toşa, J. Brem, A. Mantu, F. D. Irimie, C. Paizs, J. Rétey, ChemCatChem 5 (2013), pp. 779–783