



## Europass Curriculum Vitae

### Personal information

Surname(s) / First name(s) **CRISTINA-MARIA BISCHIN**  
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Nationality R  
Date of birth 05 August 1985  
Gender Female

### Desired employment / Occupational field

#### Research Assistant

### Work experience

Dates 01/05/2010 → 01/12/2010; 15/04/2011 → 01/06/2013; 02/09/2013 → present  
Occupation or position held Research Assistant  
Name and address of employer Babes-Bolyai University,  
M. Kogalniceanu, no. 1, Cluj-Napoca, RO-400084  
Type of business or sector scientific research activities

### Education and training

Dates 01/10/2009 - 30/09/2012  
Title of qualification awarded Ph.D in Chemistry  
Principal subjects / occupational skills covered Biochemistry and Bioinorganic Chemistry  
Name and type of organisation providing education and training Babes-Bolyai University (Faculty of Chemistry and Chemical Engineering)  
1, Mihail Kogalniceanu, 400084 Cluj-Napoca (Romania)  
Level in national or international classification ISCED 6  
Dates October 2008 - July 2009  
Title of qualification awarded Master of Science  
Principal subjects / occupational skills covered Cell Signaling, Cell culture, Recombinant DNA Technology, Advanced Enzymology, Advanced Techniques of Optical and Electronic Microscopy  
Name and type of organisation providing education and training Babes-Bolyai (Faculty of Biology and Geology)  
1, Mihail Kogalniceanu, 400084 Cluj-Napoca (Romania)  
Level in national or international classification ISCED 6

Dates	October 2004 - July 2008
Title of qualification awarded	Bachelor's degree
Principal subjects / occupational skills covered	Invertebrate Zoology, Vertebrate Zoology, Plant Morphology, Anatomy and Physiology, Botany, Human Anatomy and Physiology, Genetics, Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Biochemistry
Name and type of organisation providing education and training	Babes-bolyai University (Faculty of Biology and Geology) 1, Mihail Kogalniceanu, 400084 Cluj-Napoca (Romania)
Level in national or international classification	ISCED 5

**Personal skills and competences**

Mother tongue(s)

**Romanian**

Other language(s)

Self-assessment  
European level (\*)**English****French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	C1	Proficient user	B1	Independent user	B1	Independent user	B1	Independent user
B1	Independent user	C1	Proficient user	B1	Independent user	B1	Independent user	B1	Independent user

(\*) [Common European Framework of Reference \(CEF\) level](#)

Technical skills and competences

UV-vis spectroscopy applied to study protein

Stopped-flow and freeze-quench techniques applied in fast reaction studies

Free radical studies using Electron Resonance Spectroscopy

Enzymatic assays, enzyme kinetics

Biosensors

Chromatographic techniques (TLC, HPLC, FPLC)

Organizational skills and competences

Supervised and directed the practical part of several students for diploma theses and some MSC students

Computer skills and competences

Good command of Microsoft Office tools (Word, Excel and PowerPoint)

Basic knowledge of several software applied in chemistry (ChemDraw, ChemWin, Specfit, Statistica, GraphPed, WinEPR, ViewerLite, MestRe-C, Powersuite, Gaussian, Spartan)

**Additional information**

Annex 1. List of publications

Annex 2. Attended conferences

### List of publications:

1. Gârban, Z., Silaghi-Dumitrescu, R., Gârban G., Avacovici, A., Hădărugă, N., Baltă, C., Ghibu, G.-D. **Bischin, C.**, Rada, O.-A., Metallomics related to gallium compounds: biochemical and xenobiochemical aspects, *Maced. J. Chem. En*, *accepted*.
2. **Bischin, C.**, Tusan, C., Bartok, A., Septelean, R., Damina, G., Silaghi-Dumitrescu., R., Evaluation of the biochemical effects of silyl-phosphaalkenes on oxidative and nitrosative stress pathways involving metallocenters, *Phosphorus Sulfur Silicon Relat. Elem.*, *accepted*.
3. Găină, L., Torje, I., Gal, E., Lupan, A., **Bischin, C.**, Silaghi-Dumitrescu, R., Damian, G., Lonneck, P., Cristea, C., Silaghi-Dumitrescu, L., Microwave assisted synthesis, photophysical and redox properties of (phenothiazinyl)vinyl-pyridinium dyes, *Dyes and Pigments*, **2013**, 102, 315-325.
4. Găină, L., Mătărăngă-Popa, L.N., Gal, E., Boar, P., Lonneck P., Hey-Hawkins, E, **Bischin, C.**, Silaghi-Dumitrescu R., Lupan, I., Cristea, C., Silaghi-Dumitrescu, L. Microwave-assisted catalytic amination of phenothiazine-reliable access to phenothiazine analogues of Troger-s base, *Eur. J. Org. Chem.*, **2013**, 2013(24), 5500-5508.
5. **Bischin, C.**, Țălu, S., Silaghi-Dumitrescu, R., Țălu, M., Giovanzana, S., Lupașcu, C.A., Computerized morphometric assessment of the human red blood cells treated with cisplatin, *Ann. Rom. Soc. Cell Biol.*, **2012**, 17, 2, 105-110.
6. **Bischin, C.**, Lupan, A., Taciuc V., Silaghi-Dumitrescu, R., Interactions between proteins and platinum-containing anti-cancer drugs, *Mini. Rev. Med. Chem.*, **2011**, 11, 214-24.
7. **Bischin, C.**, Deac, F., Silaghi-Dumitrescu, R., Worrall, J. A., Rajagopal, B. S., Damian, G., Cooper, C. E., *Free Radic. Res.*, **2011**, 45, 439-44.
8. **Bischin, C.**, Taciuc, V., Silaghi-Dumitrescu, R., Cisplatin effect on hemoglobin and myoglobin autooxidation, *Studia Chemia*, **2011**, 55, 4, 2010.
9. Tackacs, I.M., Dragota, M., **Bischin, C.**, Bolojan, L., Damian, G., EPR study of molecular oxygen effect upon nitroxide radicals, *Studia Physica*, **2011**, 56, 1, 73-79.
10. **Bischin, C.**, Taciuc, V., Silaghi-Dumitrescu, R., Effects of antioxidants in cisplatin toxicology, *Metal Elements in Environment, Medicine and Biology Tome X*, R. Silaghi-Dumitrescu, G. Garban, Eds. **2010**, Eurobit Publishing House, 265-270.
11. Briciu, R.D., Casoni, D., **Bischin, C.**, Thin layer chromatography separation of some carotenoids, retinoids and tocopherols, *Studia Chemia*, **2008**, 53, 4, 67-76.

### Book chapter:

1. Silaghi-Dumitrescu, R., **Bischin, C.**, Interactions between proteins and platinum containing anticancer drugs, *Encyclopedia of Metalloproteins*, Springer Science+Business Media, Editors: Robert H. Kretsinger, Vladimir N. Uversky, Eugene A. Permyakov, ISBN: 978-1-4614-1532-9 (Print) 978-1-4614-1533-6 (Online), 2013.

### **Attended conferences:**

#### Posters:

1. Hemoglobin, Myoglobin and Cytochrome c free radicals reactivity is modulated by cisplatin and some potent anticancer drugs, *International Conference SRBBM*, București, 13-14 Septembrie, **2012**.
2. Ascorbate peroxidase activity of cytochrome c, *International Conference EuCheMS*, Praga, 26-30 August, **2012**.
3. Direct spectroscopic detection of damage on red blood cells exposed to cisplatin, International Conference, *Advanced Spectroscopies on Biomedical and Nanostructured Systems*, Cluj-Napoca, 4-7 Septembrie, **2011**.
4. Cisplatin modulates free radical-generating reactivity in haemoglobin and in cytochrome c, *31th National Conference, Ramnicu-Valcea*, Octombrie, **2010**.
5. Ascorbate peroxidase activity with cytochrome c, *National Conference ICOSECS 7*, București, 15-17 Septembrie, **2010**.

#### Oral communication:

1. Pt-based drugs vs. metalloproteins, *11th Intenational Symposium on Metal Elements in Environment , Medicine and Biology*, Cluj-Napoca, **2012**.