



## Europass Curriculum Vitae

### Personal information

Surname(s) / First name(s) **GROȘAN (born BERGHIAN) Ana Camelia**

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Nationality Romanian

Gender Female

### Occupational field **Research and Development**

#### Work experience

Dates

July 2013 – present

Occupation or position held Senior Researcher grade II

Main activities and responsibilities Synthesis and characterization of new nanomaterials based on metal nanoparticles and organic compounds especially biomolecules  
Development of novel biosensors to monitor the course of a reaction  
Electrochemical detection of DNA damage using modified electrodes based on graphene

Name and address of employer **National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Str., 400293 Cluj-Napoca, Romania, [www.itim-cj.ro](http://www.itim-cj.ro)**

Type of business or sector Research, Development, Innovation

Dates

March 2008 - July 2013

Occupation or position held Researcher grade III

Main activities and responsibilities Synthesis and characterization of new nanomaterials based on metal nanoparticles and organic compounds  
Development and surface characterization of new chemically modified electrode; electrochemical investigations for environmental and medical applications

Name and address of employer **National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Str., 400293 Cluj-Napoca, Romania, [www.itim-cj.ro](http://www.itim-cj.ro)**

Type of business or sector Research, Development, Innovation

Dates

October 2010-February 2011

Occupation or position held Teaching Assistant

Main activities and responsibilities Seminars and laboratory activities on drug analysis

Name and address of employer **Iuliu Hațieganu University of Medicine and Pharmacy Cluj-Napoca; Faculty of Pharmacy; Department of Drugs Analysis**

Type of business or sector Education and Research

Dates November 2006 – March 2008

Occupation or position held Research Assistant

Main activities and responsibilities Study of cellulose bleaching using PolyOxoMetalate (POM) clusters: <http://itim-cj.ro/PNCDI/pomalb/PROJECT.htm>

Name and address of employer **National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Str., 400293 Cluj-Napoca, Romania, www.itim-cj.ro**

Type of business or sector Research, Development, Innovation

Dates November 2001-October 2006

Occupation or position held PhD student

Main activities and responsibilities Seminars and laboratory activities on General Chemistry; chemistry tutor for students from I.U.T. de Rouen, Département de Chimie

Name and address of employer **Babeş-Bolyai University Cluj-Napoca; Faculty of Chemistry and Chemical Engineering, Romania**  
**University of Rouen, France**

Type of business or sector Education and Research

Dates 2000-2001

Occupation or position held Chemistry Teacher

Main activities and responsibilities Teaching

Name and address of employer **Grup Şcolar Industrial Tehnofrig, Cluj-Napoca, Romania**  
**Liceul Romulus Ladea, Cluj-Napoca, Romania**

Type of business or sector Education

## Education and training

Dates November 2001-October 2006

Title of qualification awarded Doctor's diploma

Principal subjects Organic Chemistry  
Scientific Supervisors: Prof. Dr. Eng. Mircea Dărăbanţu  
Prof. Dr. Nelly Plé

Name and type of organisation providing education and training **Babeş-Bolyai University Cluj-Napoca; Faculty of Chemistry and Chemical Engineering, Romania**  
**University of Rouen, France**

Dates October 2000-June 2001

Title of qualification awarded Master's degree

Principal subjects Heterocyclic Chemistry

Name and type of organisation providing education and training **Babeş-Bolyai University Cluj-Napoca; Faculty of Chemistry and Chemical Engineering, Romania**

Dates October 1995-June 1999

Title of qualification awarded Bachelor of Science

Principal subjects Chemistry and Physics

Name and type of organisation providing education and training **Babeş-Bolyai University Cluj-Napoca; Faculty of Chemistry and Chemical Engineering, Romania**

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (\*)

**French**

**English**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User	C1	Proficient User
C1	Proficient User	C1	Proficient User	B2	Independent User	B2	Independent User	C1	Proficient User

(\*) Common European Framework of Reference for Languages

Social skills and competences

Team work; experience in working in national and international research groups

Organisational skills and competences

Research and teaching abilities; good coordinator of research projects and students' stages

Technical skills and competences

Chemistry – good skills in laboratory techniques; measurements and data processing related to electrochemistry and Nuclear Magnetic Resonance (NMR).

Computer skills and competences

ChemDraw, Origin, Gaussian, Diamond, Nova, MestReC

Other skills and competences

Affiliations: Member in the Romanian Chemistry Society and Romanian Catalysis Society

**Additional information**

**Publications:**

37 papers in ISI or BDI-indexed Journals (22 in ISI-rated journals, 1 in ISI-indexed journal, 6 ISI conference proceedings and 8 in BDI-indexed journals)

Hirsch index: 8

Selected publications:

1. **C. Berghian-Grosan**, L. Olenic, G. Katona, M. Perde-Schrepler, A. Vulcu, l-Leucine for gold nanoparticles synthesis and their cytotoxic effects evaluation, *Amino Acids* 46, 2014, pp. 2545-2552.
2. M. Crisan, L. David, B. Moldovan, A. Vulcu, S. Dreve, M. Perde-Schrepler, C. Tatomir, A.G. Filip, P. Bolfa, M. Achim, I. Chiorean, I. Kacso, **C.B. Grosan**, L. Olenic, New nanomaterials for the improvement of psoriatic lesions, *Journal of Materials Chemistry B* 1, 2013, pp. 3152-3158.
3. A. Vulcu, **C. Grosan**, L.M. Muresan, S. Pruneanu, L. Olenic, Modified gold electrodes based on thioctosine/guanine-gold nanoparticles for uric and ascorbic acid determination, *Electrochimica Acta* 88, 2013, pp. 839-846.
4. **C.B. Grosan**, C. Varodi, A. Vulcu, L. Olenic, S. Pruneanu, V. Almasan, Structural and electrochemical characterization of novel leucine-gold nanoparticles modified electrode, *Electrochimica Acta* 63, 2012, pp. 146-152.
5. **C. Berghian**, P. Lameiras, L. Toupet, E. Condamine, N. Plé, A. Turck, C. Maieranu, M. Darabantu,  $\alpha$ -(3,7-Dioxa-r-1-azabicyclo[3.3.0]oct-c-5-ylmethoxy)-diazines. Part 1: Synthesis and stereochemistry. Extension to s-triazine series, *Tetrahedron* 62, 2006, pp. 7319-7338.
6. **C. Berghian**, E. Condamine, N. Plé, A. Turck, I. Silaghi-Dumitrescu, C. Maieranu, M. Darabantu,  $\alpha$ -(3,7-Dioxa-r-1-azabicyclo[3.3.0]oct-c-5-ylmethoxy)-diazines. Part 2: Functionalisation via directed ortho-metallation and cross-coupling reactions, *Tetrahedron* 62, 2006, pp. 7339-7354.
7. **C. Berghian**, M. Darabantu, A. Turck, N. Plé, Metallation of pyridin-2-ylidiazines. Use of pyridine ring as ortho-directing group. Diazines. Part 45, *Tetrahedron* 61, 2005, pp. 9637-9644.

**Annexes**

List of publications

3.11.2014

A Grosan