

## CURRICULUM VITAE

**Prof. dr. Bala Camelia**

### **Affiliation and official address**

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Department of Analytical Chemistry  
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### **Professional experience, employer**

- since 2011: elected Director Doctoral School on Chemistry, University of Bucharest
- since 2012: Council of Doctoral Studies (CSUD), University of Bucharest
- since 2001: Director Research Center LaborQ (founded by Japan Agency for International Cooperation, accredited by RENAR 2004-2007)
- 2004-2008: Scientific Secretary, Council Faculty of Chemistry, University of Bucharest
- 2006-2010: National Council of Scientific Research in Higher Education (CNCSIS) Mathematical and Natural Sciences Commission
- nov. 2016-apr. 2017: National Council for Scientific Research (CNCS), Commission for Materials Science
- since 2006: PhD Supervisor in Chemistry, confirmed by Ministry of Education and Research
- since 2005-full prof.; 2001-assoc. prof., 1998-lecturer, 1990-assistant, Fac. Chem., Univ. of Buc.
- 1989 – 1991: Chemistry teacher, Colegiul Național Cantemir Vodă, Bucharest

### **Education, degrees and diplomas**

- 1997, Ph.D. in Chemistry, University of Bucharest
- 1990, M.Sc. in Organic Chemistry, University of Bucharest, Faculty of Chemistry
- 1989, B.Sc. in Chemistry, University *Politehnica* of Bucharest, Faculty of Chemical Technology
- 1985, High School Diploma, mathematic-physic, Colegiul Ion Creanga Bucharest
- 2003, Certificate, 5 days Course "General aspects of ISO / IEC 17025: 1999 for the activity of accreditation of test / verification laboratories", Asociația de Accreditare din România (RENAR)
- 2003, Certificate, 5 days Course „Certification of HACCP-Systems”, German Accreditation System for Testing (DAP)
- 2003, Certificate, 5 days Course, Internal Auditors of the Quality Management System, FIATESTTE
- 2002, Certificate, 5 days Course, Cours Général de Propriété Intellectuelle, Organisation Mondiale de la Propriété Intellectuelle

### **Research interests**

- analytical chemistry & bioelectrochemistry
- bio- & immune- sensors addressing current emerging problems of clinical, food and environmental importance.
- bioanalytical chemistry focusing on investigations of basic biochemical mechanisms at bio-interfaces, biomimetic materials and artificial receptors.
- Current projects include: (i) low cost field portable sensing platforms integrating biomimetic systems for rapid screening of undesirable substances in food and environment, (ii) novel electrode materials, nanostructured materials, surface-modified electrodes and conducting polymers, (iii) electrochemical enzyme biosensors, (iv) acoustic and surface plasmon resonance transducers for immunoassay, (v) ionic liquids based composite for sensing, (vi) micro/nanosensors for early cancer warning system diagnostic and prognostic information.

### **Publications, patents, books, research projects**

- 88 publications (<https://publons.com/researcher/1475644/bala-camelia/publications/>)

ranking in the top 25% journals for the specific research domain (chemistry multidisciplinary, chemistry analytical, electrochemistry, instruments & instrumentation, biotechnology & applied microbiology)

- 3 patents awarded by State Office for Inventions and Trademarks.
- 8 books chapters (Elsevier, Springer, CRC Press Taylor & Francis, in 799 libraries of higher education institutions, WorldCat catalogue).
- **Citation Metrics:** Web of Science (ResearcherID : A-4504-2008): h-index 26; Citations 1797  
SCOPUS : h-index 27; Citations 1922  
Google scholar: h-index 31; Citations 2497
- Principal Investigator in 30 national and 8 international projects (Japan International Cooperation Agency, FP7, ERA-NET MNT, AUF, 2 PAI Roumaine –France, 2 Bilateral Romania-Italy).
- Promoter COST actions:
  - TD1003-Bio-inspired nanotechnologies: from concepts to applications (2010-2014)
  - CA18132-Functional Glyconanoparticles for the Development of Diagnostics and Targeted Therapeutic Probes (2019-2023)
  - CA16113 - CliniMARK: 'good biomarker practice' to increase the number of clinically validated biomarkers (2017-2021)

### **Awards**

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- "Nicolae Teclu" Prize awarded by The Romanian Academy, Chemistry Section for contributions on "Structured Architectures for the Identification of Complex Biomolecules" (15 December 2017)
- Research Excellence Award, Japan International Cooperation Agency (2001).
- Award for Career Development in *Nano bioanalytical system for estrogens monitoring in the environment* Ministry of Education & Scientific Research-ANCSI (2008).
- Prize The most cited paper, *Revista de Chimie* (2009).

### **Mentoring and training researchers**

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- 6 Romanian PhD student awarded with Doctoral degree in Chemistry
- host for 1 Reintegration Grant from Sweden, for 1 PostDoc (24 months); 7 *Marie Curie* PostDoc fellows (between 3-6 months: 3-Tunis, 1-Egypt, 1-South Africa, 2-Ucraina); 1 PosDoc and 2 PhD students AUF Eugen Ionescu fellowship; 2 Research Institute of University of Bucharest (ICUB) PostDoc fellow; 11 MSc students and 12 undergraduate.
- visiting researchers (3 to 6 months): 1 month -South Africa, 1-3 month Ucraina

### **External Reviewer**

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- PhD thesis (University of Milan, University Perpignan. University Claude Bernard Lyon, France; University Rhodes, University of the Western Cape South Africa; University Tel Aviv, Israel.)
- Scientific Journal reviewer (by invitation): TRAC-Trends in Analytical Chemistry; Biosens&Bioelectron., Sens.&Actuators B. Chem., RSC Advances, Talanta, Bioelectrochem., Water Research, Toxins, Talanta, Langmuir, J. of Enzyme Inhibition and Medicinal Chemistry, Rev. Roum. Chim.,

### **Other activities**

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- since 2019 - Editorial Board member - **Chemistry Journal of Moldova** journal (ISSN 1857-1727)
- since 2019 - Editorial Board member **Sensors** journal, ranking in Q1(Clarivate) for Instruments & Instrumentation
- 2020 - **Nanomaterial** journal (IF:4.034) - Guest Editor, special Issue "Biosensors Based on Nanostructure Materials"
- 2020 - **Sensors** journal - Guest Editor, special issue "Portable Sensing Platforms for Environmental, Healthy and Food Safety Diagnostics"
- 2018 - **Sensors** journal – together with Dr. I. Pallcheti, Guest Editors, special issue Special Issue "Immunosensors - 2018 Trends and Perspective"
- 2018- **Analytical Letters**, vol 51(1) co-editors Special issue MADICA 2017

- Scientific committee 8<sup>th</sup> International Workshop on Biosensors for Food Safety and Environmental Monitoring, (Morocco), 12 - 14 October, 2017.
- Scientific committee 9<sup>th</sup> International Workshop on Biosensors for Food Safety and Environmental Monitoring, (Morocco), 9 - 11 October, 2019.
- Scientific committee, MADICA 2016 (Tunisia), 9-10 November, 2016;
- Scientific committee, International Summer School "Electrochemistry for Environmental and Biomedical Applications" Cluj-Napoca, 17-21 June 2013.
- Jury UNESCO – L'Oréal „Women in Science”, 2011.

Bucharest, April 17, 2020

Prof. dr. Camelia Bala