

PERSONAL INFORMATION

Ana-Maria GURBAN



WORK EXPERIENCE

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🌐 Brain Map U-1700-035R-4951/ orcid.org/0000-0002-2059-7065

Sex Female | Date of birth 27/10/1974 | Nationality Romanian

July, 2017 - Present

Senior scientist 2nd degree / Deputy leader of "Biotechnology and Bioanalysis" Group / Member in the Scientific Board Council of ICECHIM

National Institute for Research & Development in Chemistry and Petrochemistry-ICECHIM/ 202 Splaiul Independentei, 060021 Bucharest/ www.icechim.ro

Design, development, characterization and optimization of miniaturized sensitive bioanalytical tools for food and environmental monitoring; Design and development of dual sensitive immunoassay platforms (electrochemical-optical) for toxins detection.

Research and Development

March 2007-June 2017

Senior scientist 3rd degree/ postdoc

University of Bucharest, Laboratory for product quality control - LABORQ/ 36-46 Mihail Kogalniceanu, 050107 Bucharest / <https://chimie.unibuc.ro/laborator-pentru-controlul-calitatii-produselor-laborq>

Fundamental research in design, development, characterization and optimization of electrochemical aptasensors and of surface acoustic wave (SAW) immunosensors using LiTaO₃ or SiO₂ supports, for the detection of high molecular weight targets (mycotoxins) in liquid samples. Development of (bio)sensors based on nanocomposite materials for sensitive detection of tumor biomarkers and xenoestrogenic compounds.

Academic research and Education

Dec.1998 – March 2007

Junior scientist

Metallurgical Research Institute – ICEM/ 36 Mehadia, 060543 Bucharest/ www.icem.ro

Fundamental research in development of ceramic composite materials, such as Al₂O₃-TiO₂ and Al₂O₃-TiO₂-ZrO₂, with special thermal and mechanical resistance, and potential applications in obtaining ballistic plates. Fundamental and applied research in development, casting, plastic deformation and heat treatment of steel and nonferrous alloys, studies and material characterisation expertise and obtaining unique products.

Research and Development

EDUCATION AND TRAINING

October 2001-November 2006

Doctor in Chemistry of University of Bucharest, Romania

EQF 8

Doctor in Chemistry of University of Perpignan via Domitia, France

Faculty of Chemistry, University of Bucharest, Romania

Energy and Environment doctoral school, University of Perpignan via Domitia, France

Analytical chemistry, biochemistry, electrochemistry, (bio)sensors, process control/ *Biosensors based on dehydrogenases for food and environment monitoring*

October 1998-June 2000

Master in Biosensors for environment monitoring

EQF 7

Faculty of Chemistry, University of Bucharest, Romania

Analytical chemistry, electrochemistry, spectrometry, (bio)sensors/ *Development of amperometric biosensors for detection of dithiocarbamate fungicides*

October 1994-June 1998

Bachelor in Chemistry

EQF 6

Faculty of Chemistry, University of Bucharest, Romania

Chemistry, instrumental analysis, analytical chemistry/ *Analytical methods used for detection of urea in biological samples, such as human serum and urine*

May 2018

Training course-Automation Research Center PRECIS, Polytechnic University of Bucharest, Romania

- November-December 2015 [Large database for researchers – Advanced computing techniques for scientific research](#)
[Training stage-](#) BAE Laboratory, University of Perpignan via Domitia, France
Electrochemistry, aptasensors, immunosensors/ Development of fluorescence quenching based aptasensors for mycotoxins detection
- September 2007 [NATO Training Course – Vichy, France](#)
Sensors for Environment, Health and Security: Advanced Materials and Technologies
- July 2004 [Internal auditors – training course-Qualitas, Bucharest, Romania](#)
Management, internal and external audit, quality control
- March 2004 [Training course – Process control – Montalcino, Italy](#)
Control of process parameters, control of different parameters in fermentation process/ Additional Forms of Control
- October 2003 [Workshop – wine fermentation monitoring – Ruhr University, Bochum, Germany](#)
Development of biosensors for fermentation metabolites detection
- March 2003 [Training course - Novel Technology for Controlling Wine Production-Tokay, Hungary](#)
Quality control of wine production – new technologies

PERSONAL SKILLS

Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	C1	C1	B2	B2	B1

[Common European Framework of Reference for Languages](#)

Communication skills Good communication skills, adaptability, versatile and efficient, both as a team member and independent, ability to establish professional and social relationships, resistance to stress, ability to adapt to the multicultural environment acquired - skills gained through participation to (inter)national scientific events, as well as through collaboration and long-term interaction with students/professors/ collaborators from different countries.

Organisational / managerial skills Member in committee board of license and master degree. Since 2003 - coordination of scientific activity for Romanian and foreign students. Starting with 2020 -deputy leader of Biotechnology and Bioanalysis Department. Managerial skills acquired through projects coordination.

Job-related skills Experience in using different electrochemical instrumentation; in development of miniaturized analytical device; in using NanoDrop-OneC, µStat ECL miniaturized devices and active Dropview and NanoDropView Softs.

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Independent user	Independent user	Basic user

Good command of MS Windows and MS office suite (word, excel, power-point, adobe, etc), Origin 8, EndNote, Drop-Viewer, NanoDrop-OneC-Viewer– gained during doctoral and post-doctoral stages and as senior scientist

Other skills Peer-review activity for Sensors, Toxins, Micromachine, Sensors and Actuators B: Chemical, Biomedical and Environmental Sciences, Bioelectrochemistry..

Driving licence B

B

ADDITIONAL INFORMATION

Publications	Annexe 1
Book chapter	Annexe 1
Patents	Annexe 2
Projects	Annexe 2
Grants and awards	Annexe 2
Memberships	Annexe 2
Citations	Annexe 2
Conferences	Annexe 3

ANNEXES
ANNEXE 1 - LIST OF PUBLICATIONS AND BOOK CHAPTERS
PUBLICATIONS

1. *Enzymatic activity in a crowded volume-restricted environment* – M. L. Arsene, A.-M. Gurban, M. Calin, I. Raut, M. Doni, L. M. Jecu, Revista de Chimie, submitted
2. *Study Regarding the Potential Use of a Spent Microbial Biomass in Fertilizer Manufacturing* - N. Radu, A. A. Chirvase, N. Babeanu, O. Popa, P. Cornea, L. Pirvu, M. Bostan, A. Ciric, E. Mathe, E. Radu, M. Doni, M. Constantin, I. Raut, A.-M. Gurban, M. Begea, Agronomy 2020, 10(2), 299 doi.org/10.3390/agronomy10020299
3. *Applications of Fungal Strains with Keratin-Degrading and Plant Growth Promoting Characteristics* - M Calin; I Raut; ML Arsene; L Capra; AM Gurban; M Doni; L Jecu, Agronomy 2019, 9(9), 543 doi.org/10.3390/agronomy9090543
4. *Comparative Study on the Behavior of Virgin and Recycled Polyolefins–Cellulose Composites in Natural Environmental Conditions* - I Raut, M Calin, Z Vuluga, E Alexandrescu, ML Arsene, V Purcar, CA Nicolae, AM Gurban, M Doni, L Jecu, Journal of Composites Sciences, 2019, 3, 60; doi:10.3390/jcs3020060
5. *The potential of keratinolytic fungi for biotechnological applications in leather manufacture* -Calin M., Raut I., Doni M., Alexandrescu E., Macovescu G., Arsene M. L., Gurban A.-M., Vasilescu G., Jecu L., Revista de Chimie 2019, 70(9), 3152-3157, <https://doi.org/10.37358/RC.19.9.7506>
6. *Dental Cements* -Nicolae Angelescu, Vasile Bratu, Elena Valentina Stoian, Dan Nicolae Ungureanu, Gurban A.-M., The Scientific Bulletin of Valahia University Materials and Mechanics, 2017,15 (13), 25-27, ISSN 2537-3161.
7. *Achievements and prospects in electrochemical-based biosensing platforms for Aflatoxin M1 detection in milk and dairy products*-Gurban A.-M., Petru Epure, Florin Oancea, Mihaela Badea Doni, Sensors, 2017, 17, 2951, 1-21.
8. *TAMRA Quenching Based Aptasensing Platform for Aflatoxin B1: Analytical performance comparison of two aptamers* - K. Y. Goud, A. Sharma, A. Hayat, G. Catanante, K. V. Gobi, Gurban A.-M., J. - L. Marty, Analytical Biochemistry 2016, 508, 19-24.
9. *Selective chemical sensor for liquid specimens based on lithium tantalate surface acoustic wave devices* - Baracu A., Gurban A.-M., Giangu I., Craciunoiu F., Buiculescu V., Dinescu A., Müller R., Rotariu L., Bala C., Mitrea C., Semiconductor Conference (CAS), IEE Publisher, 2015 International, 271-274, Print ISSN: 1545-827X.
10. *Enhanced sensitive love wave surface acoustic wave sensor designed for immunoassay formats* - Puiu M., Gurban A.-M., Rotariu L., Brajnicov S., Viespe C., Bala C., Sensors, 2015, 15, 10511-10525.
11. *Manganese oxide based screen-printed sensors for xenoestrogens detection* - Gurban A.-M., Burtan D., Rotariu L., Bala C., Sensors and Actuators B, 2015, 210, 273-280.
12. *Determination of xenoestrogenic compounds using nanostructured biosensing device* - Gurban A.-M., Rotariu L., Marinescu V. E., Bala C., Electroanalysis 2012, 24 (12), 2371-2379.

13. *Sensitive detection of endocrine disrupters using ionic liquid – Single walled carbon nanotubes modified screen-printed based biosensors* -Gurban A.-M., Rotariu L., Baibarac M., Baltog I., Bala C., Talanta 2011, 85 (4), 2007-2013.
14. *Synergistic effect of mediator-carbon nanotube composites for dehydrogenases and peroxidases-based biosensors* - Arvinte A., Rotariu L., Bala C., Gurban A.-M., Bioelectrochemistry 2009, 76 (1-2), 107-114.
15. *Improvement of NADH detection using Prussian blue modified screen-printed electrodes and different strategies of immobilization*- Gurban A.-M., Noguer T., Bala C., Rotariu L., Sensors and Actuators B, 2008, 128 (2), 536-544.
16. *Development of biological sensors based on screen-printed electrodes for environmental pollution monitoring* - Gurban A.-M., Noguer T., Rotariu L., Sandulescu Tudorache M., Bala C., Sensors for Environment, Health and Security. Advanced Materials and Technologies, Springer, Series C: Environmental Security, Netherlands, 2008, 401-414, ISBN 978-1-4020-9010-3.
17. *Malate biosensors for the monitoring of malolactic fermentation: Different approaches* - Gurban A.-M., Prieto-Simon B., Marty J.-L., Noguer T., Analytical Letters, 2006, 39 (8), 1543-1558.
18. *Strategies to develop malic acid biosensors based on malate quinone oxidoreductase (MQO)* - Bucur B., Mallat E., Gurban A.-M., Goceva Y., Velasco C., Marty J.-L., Noguer T., Biosensor and Bioelectronics, 2006, 21 (12), 2290-2297.
19. *Development of a Disposable Biosensor for the detection of Metham-sodium and its Metabolite MITC*-Noguer T., Balasoiu A.-M. (m. Gurban), Avramescu A., Marty J.-L., Analytical Letters, 2001, 34 (4), 513-528.
20. *Dehydrogenases-based biosensors used in wine monitoring* - Arvinte A., Gurban A.-M., Rotariu L., Noguer T., Bala C., Revista de Chimie, 2006, 57 (9), 919-922.

BOOK CHAPTER

1. *Microbial deterioration of textile and wood artifacts* - Raut I., Calin M., Arsene M., Doni M., Gurban A.-M., Jecu L., In: *Valorization of cultural heritage through archaeometry studies using nuclear techniques and other scientific methods. General considerations and short literature survey*, published in .pdf Acrobat Reader format, CD-ROM, Bucharest, 2018, editors Fierascu R.C., Fierascu I., Doni M., ISBN: 978-973-0-27114-0
2. *Isolation and identification of microorganisms involved in the biodeterioration of cultural heritage artifacts* - Calin M., Raut I., Arsene M., Doni M., Gurban A.-M., Jecu L., In: *Practical examples regarding the valorization of cultural heritage through archaeometry studies using nuclear techniques and other scientific methods*. Editors Fierascu R.C., Fierascu I., Doni M., ISBN: 978-973-0-27114-0, Ed. Printech, ISBN 978-60-23-0888-9, Bucharest, 2018
3. *Development of biological sensors based on screen-printed electrodes for environmental pollution monitoring* - Gurban A.-M., Noguer T., Rotariu L., Sandulescu Tudorache M., Bala C., Sensors for Environment, Health and Security. Advanced Materials and Technologies, Springer, Series C: Environmental Security, Netherlands, 2008, 401-414, ISBN 978-1-4020-9010-3.

ANNEXE 2 – PATENTS, PROJECTS, GRANTS AND AWARDS, CITATION

PATENTS

1. *Procedure for realization of an immunoassay platform based on electrochemical detection combined with surface plasmon resonance for a selective determination method of mycotoxins* – A01031/2018 – Doni M., Gurban A.-M., Epure P.

PROJECTS

1. *Bio-analytical system based on carbon nanomaterials functionalization with ionic liquids for selective detection of tumor biomarkers*, PNII-PD nr. 164/02.08.2010 – project coordinator.
2. *Innovative sensors and biosensors for the determination of toxic compounds such as biogenic amines and endocrine disruptors in food and the environment* -XEN-BIAS-SES/PN19.23.03.02/2019 – project coordinator.
3. *Manufacturing of new online analytical systems for toxin hazard assessment in dairy industry* - ERANET-MANUNETII - TOX-HAZ-ASSESS 33/2017 – team member
4. *Storage and valorization techniques of the advanced scientific research outcomes*– SoVaReX, 10PS/2017 -team member
5. *Biosynthesis of selenium nanoparticles with enhanced bioactivity* - NANO-BIO-SEL- PN.18.22.01.01/2018
6. *Achievement of honey enrichment technologies with probiotic polyphenols* –PN 2236/2017-team member

7. *Novel Technology for Controlling Wine production and Quality* - HPRN-CT-2002-00186, European Commission - Community Research – team member.
8. *Sensing platforms integrating biomimic systems for rapid screening of undesirable substances in food*, PNII-PT-PCCA-2011-3.2-0762 – team member
9. *Development of bioanalytical systems, such as carbon nanotube-enzyme, platforms for stable biosensors*, CNCSIS tip A/2007- team member
10. *Nano-bioanalytical system dedicated to monitoring estrogen in the environment, pollutants in natural water*, CEEX 5928/2006 -team member.
11. *Bioanalytical system for detection of pesticide residues in complex food matrices*, PNII ctr. Nr. 51-006/2007-team member
12. *New electrochemical detection systems used in the development of biosensors based on the inhibition of acetylcholinesterase*, PNII ID 2125 nr. 548/2009-team member.
13. *Heteroaromatic compounds stabilized by substitution with Azulene: synthesis, study of their physico-chemical and electrochemical properties, uses in nonlinear light transmission technique (NLO)*, CEEX 05D1120/2005-team member.
14. *Ceramic matrix-based materials used in the NATO defense*, PNCDI/MATNANTECH 114/2002 -team member.
15. *Auxiliary materials used in continuous casting technology*, PNCDI/MATNANTECH 113/2002-team member
16. *Ceramic-ceramic composites with performant thermomechanical, tribological and anti-corrosion properties*, PNCDI/MATNANTECH 12/2001-team member
17. *Advanced oxide ceramics for use in special physico-mechanical and chemical request conditions*, RELANSIN 961/2001 - team member.

GRANTS AND AWARDS

1. ERASMUS GRANT - University of Perpignan via Domitia, France (February-June 2000).
2. Post-doctoral grant of the French Government – BAE Laboratory, University of Perpignan via Domitia, France (Nov-Dec 2015)
3. Awarded papers by Romanian CNCS-UEFISCDI in the program “Awarding the research results – articles” (Agronomy 2019, Sensors 2017, Analytical Biochem. 2016, Sensors 2015, Sensors and ActuatorsB2015, Electroanalysis2012, Talanta 2011).

MEMBERSHIP

Member of Scientific Council of INCDPC-ICECHIM since 2018

CITATIONS

191 citations/h-index **9** for Gurban + **24** citation /h-index **1** for Balasoiu - *Source:* <http://www.scopus.com/authid>

254 citations/ h-index **10**/ *Source:* <https://scholar.google.com/citations>

ANNEXE 3 - PARTICIPATION AT NATIONAL AND INTERNATIONAL SCIENTIFIC EVENTS

1. 9th Edition of the International Conference “Agriculture for Life, Life for Agriculture”, June 04-06, 2020, Bucharest, Romania – Raut I., Calin M., Gurban A.-M., Doni M., Arsene M.L., Vasilescu G., Jecu L., *The Influence of Feathers Keratin Powder Substrate on Fungi Development* (poster)
2. 9th Edition of the International Conference “Agriculture for Life, Life for Agriculture”, June 04-06, 2020, Bucharest, Romania –Calin M., Raut I., Arsene M.L., Gurban A.-M., Doni M., Vasilescu G., Jecu L., *Valorization of Inexpensive Through Specialized Microorganisms* (poster)
3. 4th International Congress on Biomaterials and Biosensors, BIOMATSEN, May 12-18, 2019, Oludeniz-Muluga, Turkey – Gurban A.-M., Epure P., Arsene M. L., Jecu L., Trica B., Doni M., *Advances in Development of Biosensing Electrochemical Platforms for Mycotoxins Detection* (poster)
4. 15th Edition of the International Symposium “Priorities of Chemistry for a Sustainable Development” PRIOCHEM, October 30 – Nov. 01, 2019, Bucharest, Romania – Gurban A.-M., Epure P., Raut I., Calin M., Vasilescu G., Jecu L., Arsene ML.,

- Doni M., *Innovative sensing platforms for toxic compounds detection* (poster - Multidisciplinary Digital Publishing Institute Proceedings 2019, 29 (1), 105)
5. 15th Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, October 30 – Nov. 01, 2019, Bucharest, Romania – Gurban A.-M., Epure P., Raut I., Calin M., Vasilescu G., Jecu L., Arsene M.L., Doni M., *Detection of aflatoxin M1 using a dual immunosensing platform* (poster - Multidisciplinary Digital Publishing Institute Proceedings 2019, 29 (1), 4)
 6. 15th Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, October 30 – Nov. 01, 2019, Bucharest, Romania – Raut I., Calin M., Gurban A.-M., Epure P., Doni M., Arsene M.L., Jecu L., *Qualitative assessment of beneficial microorganisms* (poster - Multidisciplinary Digital Publishing Institute Proceedings 2019, 29 (1), 43)
 7. 11th International Conference on Materials Science & Engineering – BRAMAT2019, March 13-16, 2019, Poiana Brasov, Romania - Gurban A.-M., Epure P., Doni M., *Miniaturized biosensing platforms for toxic compounds and their metabolites detection* (oral communication)
 8. 11th International Conference on Materials Science & Engineering – BRAMAT2019, March 13-16, 2019, Poiana Brasov, Romania - Raut I., Calin M., Vuluga Z., Alexandrescu E., Arsene M., Vasilescu G., Gurban A.-M., Doni M., Lecu L., *Overview on microbial degradation of polyolefins-based composites* (poster)
 9. The 4th International Conference New Trends on Sensing- Monitoring- Telediagnosis for Life Sciences - NT-SMT-LS 2018, August 30-September 01, 2018, Brasov, Romania - Gurban A.-M., Calin M., Raut I., Constantinescu-Aruxandei D., Arsene M., Jecu L., Doni M., *Advances in Aflatoxin M1 detection based on flow injection analysis* (poster)
 10. The 4th International Conference New Trends on Sensing- Monitoring- Telediagnosis for Life Sciences - NT-SMT-LS 2018, August 30-September 01, 2018, Brasov, Romania - Calin M., Raut I., Constantinescu-Aruxandei D., Oancea F., Arsene M., Vasilescu G., Gurban A.-M., Doni M., Jecu L., *Plant growth promoting properties of fungal strains cultured on keratin waste substrates* (poster)
 11. 4th International Conference on Analytical Chemistry - RO-ICAC, September 01-03, 2018, Bucharest, Romania
Doni M., Gurban A.-M., *Recent advances in mycotoxins detection based on (immune)sensors* (keynote plenary lecture)
 12. 25th Congress of Society of Chemists and Technologists of Macedonia (SCTM), September 19-23, 2018, Ohrid, Macedonia
Fierascu I., Fierascu R. C., Raut I., Calin M., Arsene M., Gurban A.-M., Jecu L., Fotea P., Dima S.-O., Ghiurea M., Somoghi R., Nicolae C.-A., Raditoiu V., *Transdisciplinary methodologies for the study and valorisation of cultural heritage artifacts* (poster)
 13. 14th Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 10-12, 2018, Bucharest, Romania - Gurban A.-M., Epure P., Calin M., Raut I., Vasilescu G., Constantinescu D., Jecu M., Arsene M., Doni M., *Optimization of the immunoassay system for electrochemical detection of aflatoxin M1* (poster)
 14. 14th Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 10-12, 2018, Bucharest, Romania - Calin M., Raut I., Alexandrescu E., Constantinescu-Aruxandei D., Gurban A.-M., Doni M., Arsene M., Oancea F., Vasilescu G., Jecu L., *Digestion of keratinous waste substrates under microscopic observation* (poster)
 15. 14th Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 10-12, 2018, Bucharest, Romania - Raut I., Calin M., Alexandrescu E., Gurban A.-M., Doni M., Arsene M., Oancea F., Vasilescu G., Jecu L., *Animal keratin substrates degraded by geophilic keratinolytic fungi* (poster)
 16. XIIIth Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 25-27, 2017, Bucharest, Romania - Gurban A.-M., Epure P., Constantinescu-Aruxandei D., Oancea F., Jecu M.-L., Arsene M.-L., Doni M. Badea, *Monitorization of aflatoxin M₁ in milk using an off-line immunoassay system* (poster)
 17. XIIIth Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 25-27, 2017, Bucharest, Romania - Goud K. Y., Doni M., Marty J. L., Gurban A.-M., *Development of an aptamer-based fluorescence assay for detection of aflatoxin B₁* (poster)

18. XIIIth Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 25-27, 2017, Bucharest, Romania - Gurban A.-M., Nogueer T., Goud K. Y., Doni M. Badea, Marty J.-L., Bala C., *Miniaturized bioanalytical systems for sensitive detection of some toxic compounds and their metabolites* (oral communication)
19. XIIIth Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 25-27, 2017, Bucharest, Romania - Călin M., Constantinescu-Aruxandei D., Răut I., Alexandrescu E., Purcăr V., Vasilescu G., L. Jecu, Badea-Doni M., Arsene M.-L., Gurban A.-M., Oancea F., Corneli O.-N. and Lazăr V., *Qualitative and quantitative evaluation of fungal wool fibers digestion* (poster)
20. XIIIth Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 25-27, 2017, Bucharest, Romania - Răut I., Oancea F., Georgescu E., Călin M., Constantinescu D., Vasilescu G., Doni M. Badea, Arsene M. L., Gurban A. M., Jecu L., *Inhibitory activity of new synthetic strigolactones on important phytopathogenic fungi* (poster)
21. XIIIth Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 25-27, 2017, Bucharest, Romania - Constantinescu-Aruxandei D., M. Călin, I. Răut, G. Vasilescu, M. Badea-Doni, M.-L. Arsene, A.-M. Gurban, L. Jecu, F. Oancea, and V. Lazăr, *Common pathway to unpack the bundle – integrative hypothesis in keratin and polysaccharides biodegradation* (poster)
22. XIIIth Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 25-27, 2017, Bucharest, Romania - Arsene M.L., L. Jecu, M. Badea-Doni, I. Răut, M. Călin, G. Vasilescu, D. Constantinescu Aruxandei, A.M. Gurban, *Controllable bio-mimetic medium for biocatalysis performing*
23. XIIIth Edition of the International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem, October 25-27, 2017, Bucharest, Romania - Arsene M.L., L. Jecu, M. Badea-Doni, I. Răut, M. Călin, G. Vasilescu, D. Constantinescu Aruxandei, A.M. Gurban, *Nanostructured reverse micelles: from bioseparation tool to inorganic synthesis template*
24. New Trends on Sensing- Monitoring- Telediagnosis for Life Sciences - NT-SMTLS 2017, September 07-09, 2017, Bucharest, Romania - Gurban A.-M., Constantinescu-Aruxandei D., Călin M., Răut I., Vasilescu G., Arsene M.-L., Jecu L., Oancea F., Doni M. (Badea), *Designing of a flow-analytical system for toxins detection* (poster)
25. New Trends on Sensing- Monitoring- Telediagnosis for Life Sciences - NT-SMTLS 2017, September 07-09, 2017, Bucharest, Romania - Raut I., Calin M., Jecu L., Arsene M.- L., Constantinescu-Aruxandei D., Vasilescu G., Gurban A.-M., Doni M., *Screening of fungi strains producing toxins and inhibition studies of fungal growth* (poster)
26. Summer School focused on Electrochemistry for Environmental and Biomedical Applications, June 17-21, 2013, Cluj-Napoca, Romania - Gurban A.-M., Rotariu L., Bala C., *Nanostructured device for determination of xenoestrogenic compounds* (poster)
27. 12th Eurasia Conference on Chemical Science - EuAsC2S-12, April 16-21, 2012, Corfu, Greece - Gurban A.-M., Rotariu L., Bala C., *Bioanalytical tools for sensitive detection of estrogenic compounds and tumor biomarkers* (oral communication)
28. RSE-SEE - Third Regional Symposium on Electrochemistry: South - East Europe, May 13-17, 2012, Bucharest, Romania - Gurban A.-M., Rotariu L., Bala C., *Different approaches for detection of estrogenic compounds using nanomaterials based biosensors* (oral communication)
29. IMA 2011-Instrumental Methods of Analysis-Modern Trends and Applications, September 18-22, 2011 Chania, Crete, Greece- Gurban A.-M., Rotariu L., Bala C., *Miniaturized bioanalytical devices for highly sensitive detection of estrogenic compounds and tumor biomarkers* (oral communication)
30. IMA 2011-Instrumental Methods of Analysis-Modern Trends and Applications, September 18-22, 2011 Chania, Crete, Greece - Puiu M., Istrate O., Rotariu L., Gurban A.-M., Bala C., *Kinetic approach of aflatoxin B1 - acetylcholinesterase interaction for the sensitive detection of aflatoxin B1 by surface plasmon resonance* (poster)
31. 10th Workshop on (Bio)sensors and Bioanalytical microtechniques in environmental and clinical analysis, June 19-22, 2011, Weimar, Germany - Gurban A.-M., Rotariu L., Bala C., *Disposable biosensors based on nanocomposite materials for highly sensitive detection of estrogenic compounds* (poster)

32. The 59th Annual Meeting of the International Society of Electrochemistry, September 07-12, 2008, Seville, Spain - Bala C., Arvinte A., Gurban A.-M., Rotariu L., *Electrochemical system based on nanocomposite material used for detection of some biological important analytes* (poster)
33. Euroanalysis XIV, September 9-14, 2007, Antwerpen, Belgium - Gurban A.-M., Bala C., *Single-walled carbon nanotube modified screen-printed electrodes for alkylphenols and alkylphenol derivatives detection.* (poster)
34. NATO: *Sensors for Environment, Health and Security:Advanced Materials and Technologies*, September 16-27, 2007, Vichy, France - Gurban A.-M., Rotariu L., Tudorache M., Bala C., *Development of biological sensors based on screen-printed electrodes for environmental pollution monitoring* (oral communication)
35. ESEAC 2008, *12th International Conference on Electroanalysis*, June 16-19, 2008, Prague, Czechia - Gurban A.-M., Tencaliec A., Bala C., *SWNT-Prussian blue nanocomposite modified screen-printed carbon electrodes used for alkylphenols detection* (poster)
36. The 59th Annual Meeting of International Society of Electrochemistry, Sept 7-12, 2008, Seville, Spain - Arvinte A., Gurban A.-M., Bala C., *Electrochemical system based on nano-composite material used for detection of some biological important analytes* (poster)
37. Dixième Rencontre Transfrontalière Capteurs et Biocapteurs, September 15-16, 2005, Albi, France - Prieto-Simon B., Gurban A.-M., Bucur B., Mallat E., Noguer T., Marty J.-L., *Different strategies for developing L-malate biosensors* (oral communication)
38. Tenth International Seminar on Electroanalytical Chemistry & Third Sino-France Workshop on Surface Electrochemistry of Molecules of Biological Interest and Biosensor Application, October 16-19, 2005, Changchun, China - Noguer T., Gurban A.-M., Bucur B., Mallat E., Prieto-Simon B., Marty J.-L., *Different strategies for developing L-malate biosensor* (oral communication)
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