

# RADU Gabriel-Lucian professor

University "POLITEHNICA" Bucharest  
Faculty of Applied Chemistry and Materials Science  
Department of Analytical Chemistry and Environmental Engineering



## Contact information

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## Education and training

Dates	1980
Title of qualification awarded	Chimical engineer
Principal subjects/occupational skills covered	
Name and type of organisation providing education and training	Politehnica University of Bucharest
Level in national or international classification	Ch.Eng.
Dates	1989
Title of qualification awarded	Doctor in chemistry
Principal subjects/occupational skills covered	analytical chemistry
Name and type of organisation providing education and training	Politehnica University of Bucharest
Level in national or international classification	PhD
Dates	1991
Title of qualification awarded	Postdoctoral stage
Principal subjects/occupational skills covered	biosensors
Name and type of organisation providing education and training	Universite Claude Bernard, Lyon 1, France
Level in national or international classification	postdoc

## Professional experience

Dates	1982-2002
Occupation or position held	scientific researcher
Main activities and responsibilities	Head of department, Scientific Director, General Director
Name and address of employer	National Institute of C&D for Biological Sciences
Type of business or sector	researche
Dates	2002-present
Occupation or position held	Professor
Main activities and responsibilities	teaching
Name and address of employer	Politehnica University of Bucharest
Type of business or sector	education

## Academic and research interests

- analytical chemistry and bioanalysis: characterization of biological substances (proteins, peptides, amino acids etc.) by specific analytical methods and techniques
- environmental monitoring (biosensors, electrochemical analysis)
- food, biotechnology (quality control and quality assurance)

## Teaching activity

<i>Studies</i>	<i>The name of Programme</i>	<i>Code</i>	<i>Course title</i>	<i>Activity type</i>
<i>Master</i>	Consumer protection. Quality control of products	UPB.11.S.09.O. 504	Advanced control methods and techniques	Course
<i>Master</i>	Environmental Engineering	UPB.11.S.10.O. 1209	Integrated systems of pollution monitoring	Course
<i>Master</i>	Life science and ecology	UPB.11.S.11.O. 1309	Quality control and chemical analysis laboratory accreditation	Course
<i>Bachelor</i>	Alimentary Products Engineering-IPA and Food products control and expertise-CEPA	11.S.05.O.005	Enzimatic and Imunologic Methods of Analysis	Course
<i>Bachelor</i>	Medical Engineering	14.T.03.O.028	Analysis of Biologic Samples	Course

## Publication (selective):

### Books

1. **Radu G.L.** coordonator, 2009, TEHNICI EXPERIMENTALE IN BIOANALIZA, vol.VIII, Editura Printech Bucuresti, 219 pagini, ISBN 978-606-521-439-2
2. I.Tanase, **G.L.Radu**, D.Popa, M.Buleandra, 2009, Ghid EURACHEM-CITAC-Incertitudinea de masurare datorata sampling-ului, ghid pentru metode si abordari, Editura Printech Bucuresti, 108 pagini, ISBN 978-606-521-279-4
3. S.Litescu, S.Eremia, **G.L.Radu**, 2010, BIO-FARMS FOR NUTRACEUTICALS: FUNCTIONAL FOOD AND SAFETY CONTROL BY BIOSENSORS (Eds. M.Giardi, G.Rea, B.Berra), Landes Bioscience, Austin USA, Methods for the determination of antioxidant capacity in food and raw materials, ISBN: 978-1-4419-7346-7
4. S.Litescu, S.Eremia, **G.L.Radu**, 2010, BIO-FARMS FOR NUTRACEUTICALS: FUNCTIONAL FOOD AND SAFETY CONTROL BY BIOSENSORS (Eds. M.Giardi, G.Rea, B.Berra), Landes Bioscience, Austin USA, Biosensors for the determination of phenolic metabolites, ISBN: 978-1-4419-7346-7
5. **Radu G.L.** coordonator, 2012, TEHNICI EXPERIMENTALE IN BIOANALIZA, vol.IX, Editura Printech Bucuresti, 164 pagini, ISBN 978-606-521-869-7

### Articles

Eremia, S.A.V., **Radu, G.-L.**, Litescu, S.-C.

Monitoring of rosmarinic acid accumulation in sage cell cultures using laccase biosensor (2013) *Phytochemical Analysis*, 24 (1), pp. 53-58.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84870893817&partnerID=40&md5=7b8db5534c899a35efc91ebbb5525050>

Trucă, G.I., Teodor, E.D., Teodor, E.S., Lițescu, S.C., **Radu, G.L.**

FTIR and statistical studies on amber artefacts from three Romanian archaeological sites (2012) *Journal of Archaeological Science*, 39 (12), pp. 3524-3533.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84865046361&partnerID=40&md5=d8c765e22516b1023951cfae79badd62>

Trucă, G.I., Teodor, E.D., Litescu, S.C., **Radu, G.L.**

LC-MS and FT-IR characterization of amber artefacts

(2012) *Central European Journal of Chemistry*, 10 (6), pp. 1882-1889.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84867085931&partnerID=40&md5=7216dcd48cea5749d1a29585dc d78472>

Udriste, A.A., Stan, V., **Radu, G.L.**, Tabler, M., Cucu, N.

Identification of a dicer homologue gene (DCL2) in *Nicotiana tabacum*

(2012) *Plant Biology*, 14 (6), pp. 980-986.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84868210231&partnerID=40&md5=66f44c43f27a385dc17242760ac bda55>

Maria, G., Stoica, A.-I., Luta, I., Stirbet, D., **Radu, G.L.**

Cephalosporin release from functionalized MCM-41 supports interpreted by various models

(2012) *Microporous and Mesoporous Materials*, 162, pp. 80-90.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84863453014&partnerID=40&md5=00ce12d8949606ef4c487c3714e01364>

Paun, G., Neagu, E., Litescu, S.C., Rotinberg, P., **Radu, G.L.**

Application of membrane processes for the concentration of *Symphytum officinale* and *Geranium robertianum* extracts to obtain compounds with high anti-oxidative activity

(2012) *Journal of the Serbian Chemical Society*, 77 (9), pp. 1191-1203.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84867226762&partnerID=40&md5=c6bc2414a02cb1e5c69d02dbf5482055>

### Research projects

- Cuantificarea bioacumulării xenobioticilor în lanturile trofice aparținând zonelor umede
- Micro-biosenzori pentru controlul pesticidelor din probe de mediu și alimente
- Realizarea de nanoreactoare enzimatică micelare
- Retea de biosenzori amperometrici pentru analiză simultană a metanolului și etanolului
- Caracterizarea analitică a biosistemelor redox în vederea manipulării și aplicării practice a acestora

### Other information

#### Study and research abroad

- 1993, 1994, 1995, 1996, 1997, 2000 (one month) research training, Laboratoire de Genie Enzymatique-CNRS, Universite Claude Bernard, Lyon 1, Villeurbanne, France
- 1998 (June-July) invited professor, Universite Claude Bernard, Lyon 1, Villeurbanne, France
- 1999 (May) research training, Faculte de Medecine et de Pharmacie, Universite Libre de Bruxelles, Belgium
- 2001 (January-March) fellow of the Agency of Science and Technology from Japan, National Institute for Environment Studies, Tsukuba, Japan
- 2002 (April-June) invited researcher, Centre de Phytopharmacie, Universite de Perpignan, France

#### Professional experience

1990-2000: Secretary of the Romanian Society of Analytical Chemistry - S.C.A.R.

1995-2000: Member of Division of Analytical Chemistry and Working Party on Professional Affairs of Federation of European Chemical Societies

2000- present: Member and President of EURACHEM Romania

1997- 2002: Member of Commission no.14 (Medicine, Biology, and Biotechnology) of Consulting National Committee of Research&Technology

1996-1999: Assistant Editor, *Journal of Medicine and Biochemistry* (ISSN 1453-1321)

1996-2001: Assistant Editor, *Romanian Biotechnological Letters* (ISSN 1224-5984)

2000-present: Member of Editorial board:

*Romanian Biotechnological Letters* (ISSN 1224-5984)

*Environmental Engineering and Management Journal* (ISSN 1582-9596)

2001-present: Expert of the National Council for High Level Education (CNCSIS) and

Expert of the National Program for R&D&I (PNCDI)

2002-2008: Independent expert of FP6 and FP7, Leonardo da Vinci II, SOCRATES international programs

2007-2009 Participation as the staff to elaborate the strategy/program on short and medium period of the biotechnological field in Romania

2006-present: Member Accreditation Council of the National Accreditation Body - RENAR

#### Distinction

**a-** Diploma of International Fair of Technical Novelties - INVENTA'91, Bucharest, Romania, 1991

**b-** Diploma of Honor at the IVth International Symposium "Diversité du développement des organismes source de créativité et de valorisation biotechnologique et socio-économique", Bucharest, Romania, 1995

**c-** Diploma and Medal of silver at the 23rd International Exposition of Inventions, Geneva, Swiss, 1995

**d-** Diploma and Medal of silver 45th Mondial Fair of Patents, Research and Industrial Innovation - EUREKA, Brussels, Belgium, 1996

**e-** Diploma and Medal of bronze at the 26th International Exposition of Inventions, Geneva, Swiss, 1998