



## Europass Curriculum Vitae



### Personal information

First name / Surname

**Gabi DROCHIOIU**

Addresses

Home: 19, C15, Petru Rares Str., Tg. Frumos-705300, District Iasi, Romania  
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<http://teclu.chem.uaic.ro/drochioiu/>

Nationality

Romanian

Date of birth

January 23, 1954, in Unteni-Botosani, Romania

Gender

male

### Occupational field

Faculty of Chemistry, Al. I. Cuza University of Iasi, Romania, Professor in Biochemistry & Toxicology & PhD supervisor

### Work experience

Professor, PhD, chemist, researcher & inventor

Dates

01.10.2007 to present/1.10.2005-01.10.2007/2002-2005/1999-2002

Occupation or position held

Professor & PhD coordinator/Professor/ Assoc. Prof./ Lecturer

Main activities and responsibilities

Director of Doctoral School "Chemistry and Life and Earth Sciences", 2012 to present;  
Chancellor of the Faculty of Chemistry, 2006-2008; Vice-Dean, 2004-2006,

Teaching activity: Biochemistry, & Toxicology  
Research: Coordinator of various collaboration research projects

Name and address of employer

Alexandru Ioan Cuza University of Iasi, 11 Carol I, Iasi-700506, Romania

Type of business or sector

Academic, Professor of Biochemistry and Toxicology at Faculty of Chemistry, Al. I. Cuza University of Iasi

Dates

01.03.1997-01.03.1999

Occupation or position held

Manager & Editor at TAO Biochemicals Ltd Suceava

Dates

01.05.1990-01.03.1997/01.09.1980-01.05.1990

Occupation or position held

Main Researcher/ Researcher

Name and address of employer

Gene Bank of Suceava/Agricultural Research Station of Suceava, Romania

Main activities and responsibilities	Analytical Biochemistry, Cereal Breeding											
Dates	01.09.1978-01.09.1980											
Name and address of employer	Artificial Fibber Factory of Suceava, Romania											
Type of business or sector	Chemist, Investment											
<b>Education and training</b>												
Dates	1973-1978					1997						
Title of qualification awarded	Chemist					Doctor in Chemistry						
Principal subjects/occupational skills covered	Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Chemical Engineering, Mathematics, Physics, Physical Chemistry, Spectroscopy, Proteins & amino acids, Methods applied in plant breeding											
Name and type of organisation providing education and training	Gh. Asachi Polytechnic Institute of Iasi, Faculty of Chemistry, and Al. I. Cuza University of Iasi (PhD)											
Level in national or international classification	Higher education, ISCED 6											
<b>Personal skills and competences</b>												
Mother tongue	<b>Romanian</b>											
Other language(s)												
Self-assessment												
<i>European level</i> (*)												
English Language	B2		Indep. user		C1		Indep. user		B2		Indep. user	
French Language	A2		Basic user		B1		Indep. user		A2		Basic user	
German Language	A2		Basic user		B1		Indep. user		A2		Basic user	
(*) <a href="#">Common European Framework of Reference for Languages</a>												
Social skills and competences	Director of doctoral school, reviewer, organizer of English courses, symposia organizer, editor, vice-dean, 2004-2006, chancellor, 2006-2008											
Organisational skills and competences	Team work, organizer of working teams, Experience in the management of research programs (2002-present)											
Technical skills and competences	Research area: Food science; Proteomics, Mass spectrometry; Environmental Chemistry, Analytical Chemistry, Biochemistry, Toxicology, Forensics. Contribution: Biostructural theory of livings, Biosystems. Initiation of new technologies through research projects and their implementation into practice.											
Computer skills and competences	Microsoft Office (Word, Excel, PowerPoint), ChemDrawUltra, GPMaw, Internet DataBase for proteins, Internet Explorer											

Other skills and competences	<p><b>Member</b> of the American Chemical Society (ACS Number 2438319); Romanian Society of Chemistry, 1999 – present; Romanian Society for Soil Sciences, 1982 – 1997.</p> <p><b>Visiting</b> professor, University of Konstanz, Germany (many time, 2003-2008);</p> <p>Editorial Director of Anale of UAIC Iasi, s. Chemistry, 2006-2008</p> <p>Member of the editorial board: Current Chemical Research, India, <a href="http://www.mehtapress.com">http://www.mehtapress.com</a>; Journal of Colloid and Surface Chemistry Bucharest ISRN Analytical Chemistry (<a href="http://www.isrn.com/journals/ac/editors/">http://www.isrn.com/journals/ac/editors/</a>), Journal of Colloid and Surface Chemistry (ISSN 1453-4800; <a href="http://www.docstoc.com/docs/77159606/Journal-of-Colloid-and-Surface-Chemistry">http://www.docstoc.com/docs/77159606/Journal-of-Colloid-and-Surface-Chemistry</a>), International Journal of Conservation Science (<a href="http://ijcs.uaic.ro/board.html">http://ijcs.uaic.ro/board.html</a>), International Journal of Criminal Investigation (<a href="http://www.ijci.ro/board.html">http://www.ijci.ro/board.html</a>), Romanian Journal of Optoelectronics (<a href="http://www.optoelectronics-journal.com/index.php/editorial-board">http://www.optoelectronics-journal.com/index.php/editorial-board</a>), <a href="http://www.docstoc.com/docs/77159606/Journal-of-Colloid-and-Surface-Chemistry">http://www.docstoc.com/docs/77159606/Journal-of-Colloid-and-Surface-Chemistry</a>); Advances in Toxicology, ISSN: 2356-6906 (Print) ISSN: 2314-7822 (Online) DOI: 10.1155/3058 (<a href="http://www.hindawi.com/journals/atox/reviewers/">http://www.hindawi.com/journals/atox/reviewers/</a>)</p> <p><b>Research activity:</b></p> <p><b>Project coordinator:</b> Bilateral Mobility Project Romania-Hungary, Contract 2/2005, work 2006-2007; Romanian-American Foundation: Qualifarin Project: Process for one-step production of two different high quality corn flours by non expensive screening and eco-friendly chemical separation; Partnership PNII Project, Metafore, PN-IIPT-PCCA-2013-4-1149, Contract 107/2014, director partener; Project CNCSIS „Idei” cod 2225/2009, Contract 484/2009, time 2009-2011; Partnership project PNII, CNMP Bucharest, code 4300/2008, Contract 32-173/2008, time 2009-2011; Partnership project PNII, CNMP Bucharest, cod 4300/2008, Contract 32-173/2008, director proiect, perioada 2009-2011; Proiect de parteneriat PNII, CNMP Bucharest, cod 2746/2007, Contract 31-017/2007, director partener, perioada 2008-2010; Roman Ian Academy Grant Code AR 241/2007, Contract nr. 61/2007; Grant CNCSIS A, Cod 1451/2005 (2005-2007); Grant CNCSIS A, Cod 97/2003 (2003-2004); Grant CNCSIS A, Cod 566/2002.</p> <p><b>Scientific activity:</b></p> <p>5 patents + 2 under evaluation at Standard &amp; Invention Office Bucharest</p> <p>64 papers with impact factor (cumulated i.f. over 80)</p> <p>9 books and 3 chapters in other three books</p> <p>48 invited talks at the international conferences</p> <p>Over 500 citations (ISI web of knowledge)</p> <p><b>Prizes and Awards</b></p> <p>Romanian Academy Prize: The Nicolae Teclu Prize for Chemistry-2013; DAAD Awards 2003 &amp; 2006, Uni-Konstanz, Germany; Third Place, 5<sup>th</sup> International Olimpiad for Chemistry, Sofia, Bulgaria, 1972; 2<sup>nd</sup> Place, Traian Lalescu National Competition, Chemistry, 1975 &amp; 3<sup>rd</sup> Place, in 1974; Mention, „Stiinta si Tehnica Magazine, 1985. ANCS Prizes for several peer-review papers (2008-2011).</p>
Driving licence	Personal auto, B
<b>Additional information</b>	<p>Contact persons: Prof. Dr. Marius Andruh, Uni-Bucharest, e-mail: <a href="mailto:marius.andruh@dnt.ro">marius.andruh@dnt.ro</a>; Prof. Dr. Victor David, Uni-Bucharest, e-mail: <a href="mailto:vict_david@yahoo.com">vict_david@yahoo.com</a>; prof.dr. Ferenc Hudecz, University Eotvos Lorand Budapest, e-mail: <a href="mailto:fhudecz@elte.hu">fhudecz@elte.hu</a>, Prof.dr. Gabor Mezo, e-mail: <a href="mailto:mezo@szerves.chem.elte.hu">mezo@szerves.chem.elte.hu</a>, Prof. Dr. Ionel Mangalagiu, UAIC Iasi, e-mail: <a href="mailto:ionelm@uaic.ro">ionelm@uaic.ro</a>; Prof. Dr. Alexandru Cecal, UAIC Iasi, e-mail: <a href="mailto:acecal@uaic.ro">acecal@uaic.ro</a>; Prof. Dr. Vasile Isan, UAIC Iasi, e-mail: <a href="mailto:visan@uaic.ro">visan@uaic.ro</a>; CPI dr. Ecaterina Stela Dragan, ICMPP Iasi, e-mail: <a href="mailto:sdragan@icmpp.ro">sdragan@icmpp.ro</a>; Prof. Dr. Stefana Jurcoane, USAMV Bucharest, e-mail: <a href="mailto:jstefana@yahoo.com">jstefana@yahoo.com</a>; Assoc.Prof. Dr. Karin Popa, UAIC Iasi, e-mail: <a href="mailto:kpopa@uaic.ro">kpopa@uaic.ro</a>, dr. Gitta Schlosser, E.L. Uni-Budapest, e-mail: <a href="mailto:sch@chem.elte.hu">sch@chem.elte.hu</a></p>
<b>Annexes</b>	Selected contributions

### Selected contributions

#### PhD Thesis

Drochioiu, G. PhD Thesis: Amino acids and proteins-based nutritive quality screening of cereal inbred lines. (PhD coordinator: Prof.dr. Magda-Noela Petrovanu) Al. I. Cuza University Iasi, 1997.

## Books

- Drochioiu, G., Gradinaru, R. V., Risca, I. M., Mangalagiu, I. *Toxicologie-Aplicații în protecția mediului, industrie, agricultură, biologie și criminalistică*. Edit. Univ. Al. I. Cuza Iași, 2013.
- Drochioiu, G. Silver-induced conformational changes of polypeptides. in *Encyclopedia of Metalloproteins*. (Editors: Kretsinger, R. H., Uversky, V. N., Permyakov, E. A.), Springer Verlag, 2013, pp. 2063-2071.
- Murariu, M., Drochioiu, G., Dragan, E. S. *Sinteza de peptide și interacțiunea acestora cu metalele grele*. Edit. Tehnopress, Iași, 2011.
- Gradinaru, R., Drochioiu, G. *Introducere în laboratorul de biochimie: de la teorie la experiment*. Edit. UAIC Iași, 2011.
- Drochioiu, G., Murariu, M., Mangalagiu, I. *Plantele medicinale și metalele grele* (Medicinal Plants and Heavy metals). Tehnopress Publ., Iași, 2011, 150 pag. ISBN: 978-973-702-873-0
- Drochioiu, G. Eugen Macovschi's concept of biostructure and its current development. In *Life and mind. In search of the physical basis*. (S. Savva ed.) Trafford Publ., Canada, USA, Ireland & UK, 2006, pp. 43-60.
- Drochioiu, G. *Chimia ameliorării plantelor* (Plant Breeding Chemistry). Tao Publ. Suceava, 2003, 180 pages; ISBN: 973-96536-2-6
- Drochioiu, G., Mangalagiu, I., Druta, I. *Biochimie generală*. (General Biochemistry). Demiurg Publ., Iași, 2002, 275 pages; ISBN: 973-8076-12-6
- Airinei, A., Nicolescu, A., Drochioiu, G., Rusu, E., Jurcoane, S., Rusu, G. *Dinitrophenols-from Chemistry to Life and Health*. PIM Publ. House, Iasi, 2010.

## Patents:

- Drochioiu, G. (2013): Process for separating floury fractions of high biological or industrial quality. Romania Patent, RO128468
- Drochioiu, G. (1999): *Microanalysis method for rapid determination of fat and glyceride content in corn grains*. Romania Patent, No. 114902 B dated 30.8.1999. Chem. Abstr. 134: P 239304z.
- Drochioiu, G. and Mîhordea, D. (1987): *Colorimetric assay of crude protein*. Romania Patent, No. 93183 dated 23.7.1987. Chem. Abstr. 110:230433n (1989);
- Drochioiu, G. and Drochioiu, M. C. (1986): *Turbidimetric determination of zein in corn*. Romania Patent, No. 88698 dated 28.2.1986. Chem. Abstr. 107: 95605r (1987);
- Drochioiu, G. (1986): *Colorimetric micromethod for the protein determination*. Romania Patent, No. 90243 dated 14.3.1986. Chem. Abstr. 107: 232654x (1987).

## Selected Papers

- Drochioiu, G.\*, Ciobanu, C. I., Bancila, S., Ion, L., Petre, B. A., Andries, C., Gradinaru, R. V., Murariu, M. Ultrasound-based protein determination in maize seeds. *Ultrason. Sonochem.*, 29, 93–103, 2016. Impact factor **4.321**
- Surleva, A., Drochioiu, G. A modified ninhydrin micro-assay for the determination of total cyanogens in plants. *Food Chem.*, 141(3), 2788–2794, 2013. Impact factor **3.391**
- Murariu, M., Dragan, E. S., Adochitei, A., Zbancioc, G., Drochioiu\*, G. Silver binding to peptides: a CD study. *J. Pept. Sci.*, 17, 512-519, 2011. Impact factor **1.544**
- Drochioiu\*, G., Arsene, C., Murariu, M., Oniscu, C. Analysis of cyanogens with resorcinol and picrate. *Food Chem. Toxicol.*, 46, 3540–3545, 2008. Impact factor **2.895**
- Murariu, M., Dragan, E. S., Drochioiu, G. Model peptide-based system used for the investigation of metal ions binding to histidine-containing polypeptides. *Biopolymers*, 93, 497-508, 2010. Impact factor **2.385**
- Drochioiu, G. Chronic metabolic acidosis may be the cause of cachexia: Body fluid pH correction may be an effective therapy. *Med. Hypotheses*, 70, 1167-1173, 2008. Impact factor **1.074**
- Drochioiu, G., Damoc, E. N., Przybylski, M. Novel UV assay for protein determination and the characterization of copper-protein complexes by mass spectrometry. *Talanta*, 69(3) 556-564, 2006. impact factor **3.545**
- Murariu, M., Dragan, E. S., Drochioiu\* G. Synthesis and mass spectrometric characterization of a metal-affinity decapeptide: copper-induced conformational alterations. *Biomacromolecules*, 8, 3836-3841, 2007. impact factor **5.75**
- Drochioiu, G. Highly selective and sensitive reaction of cyanide with 2,2-dihydroxy-1,3-indanedione. *Anal. Bioanal. Chem.*, 372(5-6) 744 – 747, 2002; Impact factor **3.436**
- Drochioiu\*, G., Murariu, M., Mangalagiu, I., Druta, I. Highly selective assay of proteins in dilute solutions. *Talanta*, 56, 425 – 433, 2002; impact factor **3.545**
- Drochioiu\*, G., Mangalagiu, I., Tataru, V. Specific spectrophotometric determination of hydrocyanic acid in the environment. *Analyst*, 125, 939-941, 2000. Impact factor **4.107**

## Selected Invited Talks

- Drochioiu, G., Murariu, M., Ion, L., Habasescu, L. Iron and aluminum interaction with amyloid- $\beta$  peptides associated with Alzheimer's disease. (Effects of Metal Ions on Amyloid Aggregation and Conformational Change. ICCMSE 2014, Metropolitan Hotel, Athens, Greece, 06-07 April 2014.
- Drochioiu, G. 11<sup>th</sup> International Symposium on Metal Ions in Biology and Medicine, Cambridge, UK, 20-23.06.2011.
- Drochioiu, G. 3<sup>rd</sup> AMIREG International Conference (2009): Assessing the Footprint of Resources Utilization and Hazardous Waste Management, Athens, Greece, September 7-9, 2009.
- Drochioiu, G. TEFC 2009, International Symposium on Trace Elements in the Food Chain, Budapest, Hungary, May 21-23, 2009.
- Drochioiu, G., Murariu, M., Manea, M., Petre, A., Dragusanu, M., Cozma, C., Perdivara, I., Przybylski, M. *Twenty*

*Years Analytical Chemistry and Mass Spectrometry in Konstanz*. Uni-Konstanz, Germany, March 6-7, 2009.  
Drochioiu, G. Mass spectrometry – perspectives and research collaborations in Iasi. *Twenty Years Analytical Chemistry and Mass Spectrometry in Konstanz*. University of Konstanz, Germany, March 6-7, 2009.  
Drochioiu, G. 19<sup>th</sup> European Meetings on Cybernetics and Systems Research, Vienna, Austria, 25-28 March 2008.  
Drochioiu, G., Jurcoane, S., Murariu, M., Danac, R., Gradinaru, R. 4<sup>th</sup> European BioRemediation Conference, Chania, Crete, Greece, September 3-6, 2008.  
Drochioiu, G. Popa, K., Dirtu, A. C., and Mangalagiu, I. 11<sup>th</sup> *International Symposium Mineral Processing Symposium (IMPS-2008)* Belek, Antalya, Turkey, October, 21-23, 2008.  
Drochioiu, G., Manea, M., Murariu, M., Popa, K., Gradinaru, R., Przybylski, M. 10<sup>th</sup> *Symposium on Metal Ions in Biology and Medicine*, Bastia, France, 19 – 22 Mai 2008.

October 15, 2017



Prof. Dr Gabi Drochioiu