

CURRICULUM VITAE

1/ Personal data

Name: MUTIHAC

First name: LUCIA

Place of birth: Băile Olănești, Rm. Vâlcea, Romania

Nationality: Romanian

Citizenship: Romanian

Social situation: married, 2 children.

Address of permanent institution: University of Bucharest, Faculty of Chemistry, Department of Analytical Chemistry, 4-12, Blvd. Regina Elisabeta, Bucharest 703461, Romania, Phone: +40-21-3159249, Facsimile:+40-21-3159249.



2/ Academic degrees

1974, B.Sc. in Chemistry, University of Bucharest, Department of Chemistry, Bucharest, Romania, with thesis: *Determination of Boron from Residual Waters*;

1975, M.Sc. in Analytical Chemistry, University "Politehnica" Bucharest, Department of Chemistry, Bucharest, Roumania, with thesis: *Methods of Boron Determination from glass and ceramics*;

1977, March 30 - July 30, University "Babeș-Bolyai", Cluj-Napoca, Romania, field of specialization: *Analytical Chemistry and Automated Analysis in Industrial Processes*.

1990, Ph.D. in Analytical Chemistry, Institute of Physical Chemistry, Romanian Academy, Bucharest, title of dissertation: *Separation of Amino Acids by Macrocyclic Ligands through Liquid Membranes*, supervisor Prof. Dr. C. Luca.

3/ Positions held

September 1975 – September 1978: *Chemist*, Center of Chemical Research, Rm. Vâlcea, Romania.

September 1978 – May 1989: *Chemist Researcher*, Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania.

May 1989 – September 1991: *Senior Researcher*, Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania.

September 1989 – September 1991: *Professor Assistant*, University of Bucharest, Department of Analytical Chemistry, Bucharest, Romania.

September 1991 – October 1997: *Lecturer, Dr.*, University of Bucharest, Department of Analytical Chemistry, Bucharest, Romania.

October 1997 – October 2000: *Associate Professor, Dr.*, University of Bucharest, Department of Analytical Chemistry, Bucharest, Romania.

October 2000 – on: *Full Professor, Dr., doctorate supervisor*, University of Bucharest, Department of Analytical Chemistry, Bucharest, Romania.

4/ University courses in charge

- Separation Methods and Trace Analysis (licence);
- Chemometrics (master);
- Analytical Biochemistry (licence);
- Separation Methods in Biochemistry (licence);
- Membrane Methods in Analytical Chemistry (licence).

5/ Other duties

- Students' supervisor for licence and master studies.
- Research work carried out jointly on contract basis, in national and international research teams consisting of researchers, teachers, and students.

6/ Fields of research

- Analytical applications of supramolecular chemistry;
- Molecular recognition and transport through liquid membranes;
- Separation of chemical and biological compounds by membrane processes.

7/ Membership and activities in professional associations

1986 – 1992: **Executive Secretary** of the Romanian journals in Chemistry, Publishing House of the Romanian Academy:

Revue Roumaine de Chimie;

Roumanian Chemical Reviews (discontinued).

1991 – on, member of the **Romanian Society of Analytical Chemistry**.

1992 – on, member of the **Romanian Society of Chemistry**.

1992 – on, member of the **European Membrane Society**.

2000 – on, member of the **American Chemical Society**.

Coordinator for Romania of the **Global Supramolecular Chemistry Network**.

Member of the International Organizing Committee of the **1st International Conference on Supramolecular Science & Technology**, Poland, Zakopane Sept. 23 – Oct. 3, 1998.

Member of the International Organizing Committee of the **2nd International Conference on Supramolecular Science & Technology**, Leuven, Belgium, Sept. 10 – 14, 2000.

Co-Secretary of the **7th International Symposium KAC' 2001 on Kinetics in Analytical Chemistry**, September 26 – 29, 2001, Bucharest, Romania.

Editorial Board Member: Journal of Analytical & Bioanalytical Techniques

8/ Fellowships and Grants

- 1990 Institute of Analytical Chemistry, Hungary Science Academy, Budapest, Hungary, for the project: *Ion electrode selective and transport through membrane*.

- July 12 – October 29, 1993, **Research Fellowship** for the project: *Interactions between Macrocyclic and Macrobicyclic Hosts and Amino Acids and Other Organic Guests, Studied by Calorimetry, Potentiometry, and Conductometry*, granted by the **European Communities** in the framework of the **Cooperation in Science and Technology with Central and Eastern European Countries (COST)**, Contract No. ERB-CIPA-CT-93-0643, DTNW-Universität Duisburg, Germany.
- July 18 – 29, 1994, participation in **TEMPUS** Joint European Project No. JEP 4720 **Regional Courses in Membrane Processes, Module 2**, Slovak Technical University, Department of Chemical and Biochemical Engineering, Bratislava, Slovakia.
- February 1995 – September 1997, **NATO Collaborative Research Grant, SRG 941403** for the project: *Interactions between Unprotonated Amines and Polyethers, Crown Ethers, and Cryptands*, DTNW-Universität Duisburg, Germany.
- May – August 1996, **TEMPUS**, IMG-RO-2052, **Organization of membrane education on the curricula of chemist and chem. Engineering**, University of Calabria, Department of Chemistry and Institute of Membranes and Chemical Reactors CNR, 87030 Arcavacata di Rende (CS), Italy, Prof. Enrico Drioli.
- **XV th Annual Summer School, Membrane processes in water and wastewater treatment**, Toulouse, France, July 6 – 10, 1998.
- 1999 – 2000, **NATO Collaborative Linkage Grant CLG 974819: Enantiomeric Separation of Some Amino Acids and Peptide Compounds by Chiral Receptors**, DTNW-Universität Duisburg, Germany.
- 1999 – 2000 **NATO Science Programme, Cooperative Science and Technology Sub-Programme: Computer Networking Supplement**, CNS 976039, DTNW-Universität Duisburg, Germany.
- 2001 – 2002 **NATO Collaborative Linkage Grant CLG- 977861: Selective complexation and separation of some peptide compounds by water-soluble calixarenes**, 1 January 2001-31 December 2002, DTNW-Universität Duisburg, Germany.
- July 1, 2003 – August 31, 2003 **Deutscher Akademischer Austauschdienst (DAAD)** , Universität Duisburg-Essen, Germany.
- January 2003 – 2004, **NATO Collaborative Linkage Grant CLG-979790: Peptide Recognition by Cyclodextrins in aqueous solutions**, Universität Duisburg-Essen, Germany.

9/ Publications

Number of scientific papers published in refereed journals: **123 (100 ISI indexed)**;
Number of oral communications and posters presented to scientific meetings: **80**;
Number of published scientific books: **8**;
Number of patents: **1**.

10/ Invited lectures:

- *Recognition and transport of amino acids and peptides by synthetic receptors.*
10th International Conference on Calixarenes, Korea University, Seoul, S. Korea, IL6, July 13 – 16, 2009.
- *Liquid membranes in separation of relevant biological species.*
Systems membranes-complex roadmaps toward functional devices and coupled processes.
Membrane Materials and Technologies. XXVII Summer School, European Membrane Society, Bucharest, June 14 – 19, 2010.
- *Cucurbit[n]urils in molecular recognition of small biomolecules.*

2nd International Conference on Cucurbiturils (ICCB 2011), University of Cambridge, UK, June 29 – July 2, 2011.

- *Calix[n]arenes and Cucurbit[n]urils in molecular recognition of biomolecules*
WORKSHOP - Honorary Symposium Constantin LUCA - "pH on Membrane Materials and Processes" Sinaia 7-10 septembrie, 2011.