



## EUROPEAN CURRICULUM VITAE



### PERSONAL INFORMATION

Name **MIHAELA TRIF**  
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Nationality Romanian

### WORK EXPERIENCE

Dates (from-to)/ position held 2014-present- Senior scientific researcher Class I  
2000-2014 / Senior scientific researcher Class II

Main activities and responsibilities/competences

- Coordinator of national and international research grants;  
- Scientific Secretary of the IB board;  
- Responsible with the doctoral activity in IB

**Scientific competence in :** Technology of lipidic nanostructures (designing of biocompatible and efficient lipidic nanostructures suitable for the therapy of the inflammatory diseases); biocompatibility studies using different cells in culture; liposome interaction with immunocompetent cells; cellular response investigation during inflammatory process; investigation on the biodistribution and the mechanisms involved in the interaction between different liposome system and cell types, through *in vitro* and *in vivo* studies; identification of the liposome target.

**Teaching activity:** PhD thesis evaluator ; Advisor of BS and MS training in biochemistry, nanoscience and nanotechnology)

Name and address of employer

**Institute of Biochemistry, Spl. Independentei 296, 060031, Bucharest (ROMANIA)**  
[www.biochim.ro](http://www.biochim.ro)

Type of business or sector

Scientific research; Education

Dates (from-to)/ position held

1984-2000 / research assistant, scientific researcher class III

Main activities and responsibilities

Coordinator and collaborator of national and international research grants

Name and address of employer

Institute of Biochemistry , Romanian Academy (1991-2000)  
Institute of Biology (Romanian Ministry of Research) (1984-1991) Spl. Independentei 296, Bucharest

Type of business or sector

Scientific research; Education

Dates (from-to)/ position held

1979-1984 / Biochemist

Main activities and responsibilities

Associate coordinator of Chemistry laboratory

Name and address of employer

Bucharest Drug Factory, 50Theodor Pallady Blvd , Bucharest (ROMANIA)

Type of business or sector

technological process control / analytical biochemistry

### EDUCATION

Dates (from – to)

1990-1994

Title of qualification awarded / Name and type of organization providing education and training

**PhD in Biology**, Biochemistry specialisation ( dissertation title „Liposome as carriers for active principle” (1994) / Institute of Biochemistry, Romanian Academy

Principal subjects/occupational skills covered

Liposomes as controlled drug delivery system during inflammatory process  
- competence in: technology of lipidic nanostructures ; cell culture techniques ; biotoxicity studies  
- biochemistry, cell biology, immunochemistry techniques.

Dates (from – to)

1974-1979

Title of qualification awarded / Name and type of organization providing education and training

**BS in Biology/ Biochemistry** specialisation (1978); **MSc in Enzimology**(1979)/ Faculty of Biology, University of Bucharest , Bucharest Romania

**POST-DOCTORAL research stages**

1992 –Centre for drug Delivery Research, The school of Pharmacy, University of London, UK (Royal Society grant (1 month) ; Royal Society fellowship  
1994 - 1995 – Martin –Luther Univ. , Faculty of Medicine, Halle, Germany ,(3 months), DAAD-NATO fellowship  
1994-1996 - Université des Sciences et Technologies de Lille, France. Program International de cooperation scientific (PICS –CNRS) (3 month/year)  
1998 , 1999, 2001, 2003 – University of Glasgow, Dept. of Immunology , Glasgow, UK, (3 month/year)  
Royal Society short term grants; Wellcome Trust grant (ref. 065435/Z/01/Z/2001)

Title of qualification awarded

**Honorary Research Fellow** – University of Glasgow – 1 oct. 1999 – 30 sept. 2000

Mother tongue

Romanian

Other languages

English, French

Autoevaluare

European Level(\*)

english

french

		Understanding		Speaking		Writing
		Listening	Reading	Spoken interaction	Spoke production	
en	C1		C2	C1	C1	C2
fr	C1		C2	B2	B2	B2

(\*) *Common European Framework of Reference for Languages*

Social skills and competences

**Team work:** I have worked in various research teams from different universities of european countries (France, Germany, UK). Due to the experience accumulated during the multiple research stages abroad I have good capacity to adapt to multicultural social environment.

**-Ability in communication:** Presentations in more than 20 international seminars /conferences/workshops.

**- Member of 5 international professional and scientific societies:** International Liposome Society (ILS), European Society for Clinical Investigations (ESCI), European Society for Nanomedicine (ESNAM), Romanian for Biochemistry and Molecular Biology (RSBMB); National Society of Immunology (NSI)

**-Ability to establish coloboration with partners involved national and inernational cooperation**

- 2011-2016- **coordinator of international grant-PI-** ( Subaward Nr 61369 with LSU Ag Center, Louisiana, USA) in the frame of - USDA NIFA Grant 2011-6702;
- 1990-2011- **Coordinator of 20 national grants** (Romanian Academy of Science, Romanian Ministry of Research, Romanian Medical Academy, Romanian Agency of Research-ANCS);
- 2006-2008- **coordinator of complex grant** with ANCS- CEEX 57/2006, NANOCONTER , with 5 partners, (IOB; INSB; University of Bucharest Faculty of Biology; IMT- Bucharest; ICECHIM) ([www.biochim.ro/ib/ceex.php](http://www.biochim.ro/ib/ceex.php))

**Organisational skills and competences**

**-Workshop organised**

- Liposome as carriers for pharmacological active principle: potential applications in therapy (Bucuresti, University of Bucharest, November, 2005)

- Nanostructures for active drug delivery with therapeutical potential, (Bucharest, Institute of Biochemistry, september 2007)

Computer skills and competences

Competent with most Microsoft Office programs and some experience with HTML

**Additional informations****International collaboration established:**

- Centre for Drug Delivery Research, The School of Pharmacy, University of London, London, UK, 1992-1996, Prof. Gregory Gregoriadis
- Centre de Recherches sur les Macromolécules Végétales-CNRS, associé à l'Université Joseph Fourier, Grenoble, France, 1994-1995, Dr. Yvette Lienart;
- Martin-Luther-Universität Halle-Wittenberg, Medizinische Fakultät, Institut für Physiologische Chemie 1996-1997- Prof. Jurgen Lasch;
- Université des Sciences et Technologies de Lille, Lille, France, 1994-1996, Prof. Genevieve Spik
- University of Glasgow, Glasgow, Scotland, UK -1998-2004, Dr. Jeremy Brock, Prof. James Brewer;
- Louisiana State University Ag Center, Louisiana, USA, 2010-2015, Prof. Cristina Sabliov

**Recognition of the scientific activity**

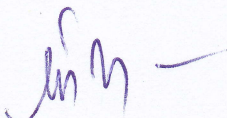
- Honorary Research Fellow – University of Glasgow – 1 oct. 1999 – 30 sept. 2000
- Best paper award- CAS/2007 –International Semiconductor Conference, September 2007, Sinaia Romania
- Award - ICECHIM/2006 –ICECHIM International symposium, October 2006, Bucharest, Romania
- Included in "Who's Who Medical in Romania" 2006

**Publications****Papers published in scientific journals - 52****Citations - 458****Papers relevant for the selected fields (selection)**

- Trif M, Craciunescu O. Liposomes as Delivery System of Chondroitin Sulfate to the Arthritic Joint by Intra-articular Administration, *Austin Arthritis*. 2016; 1(3): 1011 (2016)
- Trif M, Craciunescu O. Liposome as efficient system for intracellular delivery of bioactive molecules. *Nanotechnology and Functional Foods: Effective Delivery of Bioactive Ingredients* (C. Sabliov, H. Chen, R.Yada,eds), published by John Wiley & Sons,Ltd. p.191 (2015)
- Craciunescu O., Moldovan L., Moisei M., Trif M. Liposomal formulation of chondroitin sulphate enhances its antioxidant and anti-inflammatory potential in L929 fibroblast cell line, *J. Liposome Research*, 23(2), 145-153 (2013)
- Zarnescu O, Moldovan L, Trif M, Moisei M, Craciunescu O , Light and electron microscopy characterization of a collagen-liposome-entrapped chondroitin sulfate composite as intra-articular drug delivery system, *J Control Release*, 152, Suppl 1:e113-4 (2011)
- Roseanu A, Florian P, Moisei M, Sima L, Evans R, Trif M., Liposomalization of lactoferrin enhanced its tumoral effects on melanoma cells, *Biometals*, 23, 485-492, (2010)
- Kleps I., Ignat T., Miu M., Trif M., et al., Nanostructured Silicon Particles for Medical Applications *J. Nanosci. Nanotechnol.* 10, 2694–2700 (2010)
- Trif M., Moldovan L., Moisei M., Craciunescu O., Zarnescu O., Liposomes entrapped chondroitin sulphate: Ultrastructural characterization and in vitro biocompatibility, *Micron*, 39, 1042-1045 (2008)
- Trif M., Moisei M., Roseanu A., Brock J.H., Brewer J.M., Designing Lipid Nanostructures for Local Delivery of Biologically Active Macromolecules, *J. Liposome Research*, 17, 237-248 (2007)
- Trif M., Moisei M., Roseanu A., Nanosized technology for transdermal controlled drug delivery, CAS 2006" (published by IEEE Electron Devices Society, pag 227-231 (2006)
- Trif M, Magdalena Moisei M, Roseanu A, Designing of efficient lipidic nanostructures for the therapy of the inflammatory diseases " *Romanian Journal of Information Science and Technology*" (ROMJIST), 10, 85-95 ( 2007)
- Costin G.E., Trif M., Dwek R.A., Petrescu S.M., pH-sensitive liposomes are efficient carriers for endoplasmic reticulum targeted drugs in mouse melanoma cells, *Biochem. Biophys. Res. Commun.*, 293, 918-923 (2002)
- Trif M., Guillen C., Vaughan D., Telfer J., Brewer J.M., Roseanu A., Brock J.H., Liposomes as possible carriers for lactoferrin in the local treatment of inflammatory diseases, *Exp. Biol. Med.*, 226, 559-564 (2001)

Signature,

Mihaela Trif



Date - 02.10.2018