

**EUROPEAN
CURRICULUM VITAE**



PERSONAL INFORMATION

Name **MIHAELA TRIF**
 Address Romanian Academy, Institute of Biochemistry (IB), Splaiul Independentei 296, 60031 Bucharest, Romania
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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
 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 Madicine, 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	
Social skills and competences	<p>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.</p> <p>-Ability in communication: Presentations in more than 20 international seminars /conferences/workshops.</p> <p>- 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)</p> <p>-Ability to establish colaboration with partners involved national and inernational cooperation</p> <ul style="list-style-type: none"> - 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) <p>-Workshop organised</p> <ul style="list-style-type: none"> - 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)
Organisational skills and competences	
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,

Date - 20.10.2016

Mihaela Trif