



## INFORMATII PERSONALE

Nume **MIHAELA TRIF**  
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Nationalitate Romana

## EXPERIENTA PROFESIONALA

Data (de la-la)/ functia  
Principalele activitati si  
responsabilitati/competente

2000-prezent / Cercetator stiintific gradul I

- Responsabil de granturi de cercetare nationale si internationale;
- Secretar consiliu stiintific al IBAR (2001-2019)

### Competenta stiintifica in:

-Tehnologia nanostructurilor lipidice; mecanismele implicate in interactia lipozomi-celule; studiul raspunsului celular in procesul inflamator; caracterizarea traficului intracelular al sistemelor lipozomale, identificarea tintelor lipozomilor; studiul biodistributiei sistemelor lipozomale prin studii *in vitro* si *in vivo*.

- Biocompatibilitate, distributia intracelulara and co-localizarea nanoparticulelor de PLGA;
- Interactia dintre modelele de membrana si nanoparticulele de PLGA.

**Alte activitati stiintifice:** expert evaluator EC, evaluator teze de doctorat; coordonator lucrari de licenta si master in biochimie, nanostiinta si nanotehnologie

Numele si adresa anagajatorului

**Institutul de Biochimie al Academiei Romane, Spl. Independentei 296, 060031,  
Bucuresti (ROMANIA)  
[www.biochim.ro](http://www.biochim.ro)**

Tipul de activitate / domeniul de activitate

### Cercetare stiintifica; Educatie

Data (de la-la)/ functia

1984-2000 / asistent de cercetare, cercetator stiintific

Principalele activitati si responsabilitati

Responsabil si colaborator la granturi nationale si internationale

Numele si adresa angajatorului

Institutul de Biochimie al Academiei Romane (1991-2000)

Institutul de Biologie (Ministerul Cercetarii) (1984-1991) *Spl. Independentei 296, Bucuresti*

Tipul de activitate sau domeniul

### Cercetare stiintifica; Educatie

Data (de la-la)/ functia

1979-1984 / **Biochimist**

Principalele activitati si responsabilitati

Uzina de Medicamente Bucuresti, Blvd. Theodor Pallady nr.50, Bucuresti

Numele si adresa anagajatorului

Tipul de activitate sau domeniul

Controlul procesului tehnologic/ biochimie analitica

## EDUCATIE

Data (de la - la)

1990-1994

Calificarea obtinuta / Numele si tipul  
institutiei de educatie

**Doctorat in Biologie**, Specializarea Biochimie ( titlul tezei „Lipozomii, transportori de substante biologice active” (1994) / Institutul de Biochimie, Academia Romana, coordonator stiintific: Dr. Cecilia Motas

Principalele subiecte/domenii de cercetare

Lipozomii, sistem de eliberare controlata a medicamentelor in procesul inflamator  
- competenta in: tehnologia nanostructurilor lipidice; tehnici de culturi celulare ; studii de biotoxicitate  
- biochimie, biologie celulara, tehnici de imunochimie.

Data (de la – la)

1974-1979

Calificarea obtinuta / Numele si tipul institutiei de educatie

**Licenta in Biologie/ Biochimie (1978); Master in Enzimologie (1979)/**Facultatea de Biologie, Universitatea Bucuresti , Bucuresti, Romania

Stagii de pregatire POST-DOCTORALE

1992 –Centrul de Cercetari pentru eliberare de medicamente, Scoala de Farmacie, London University, Marea Britanie (Grant Royal Society (1 luna) ; Bursa Royal Society  
1994 - 1995 – Univ. Martin –Luther, Halle, Germania,(3 luni), Bursa DAAD-NATO  
1994-1996 - Universitatea de Stiinte si Tehnologii din Lille, Franta. Program International de cooperare stiintifica (PICS –CNRS) (3 luni/an)  
1998 , 1999, 2001, 2003 – Universitatea Glasgow, Dept. de Imunologie, Glasgow, Marea Britanie, (3 luni/an)  
Granturi Royal Society pe termen scurt; Grant Wellcome Trust (ref. 065435/Z/01/Z/2001)

Calificari obtinute

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

Limba materna

Romana

Alte limbi cunoscute

Engleza, Franceza

Nivel European(\*)

	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*

Abilitati organizationale si competente

**-Abilitate de a colabora** cu parteneri implicati in cooperari nationale si internationale

-1990-2009- **Responsabil a 20 granturi nationale** (Academia Romana, Ministerul Cercetarii, Academia Romana de Stiinte Medicale, Agentia Nationala de Cercetare Stiintifica-ANCS);  
- 2006-2008- **coordonator al unui grant complex** cu ANCS- CEEX 57/2006, NANOCONTER , cu 5 parteneri, (IOB; INSB; Universitatea Bucuresti Facultatea de Biologie; IMT- Bucuresti; ICECHIM) ([www.biochim.ro/ib/ceex.php](http://www.biochim.ro/ib/ceex.php))

-2001- Grant Wellcome Trust (ref. 065435/Z/01/Z/2001)

-2011-2016- **coordonator al unui grant international-PI- ( Subcontract Nr 61369 cu LSU Ag Center, Louisiana, USA) in cadrul grantului - USDA NIFA 2011-6702**

**Workshop-uri organizate**

- Lipozomii ca transportori de principii farmacologic active: posibile aplicatii in terapie (Bucuresti, Universitatea Bucuresti, noiembrie, 2005)

- Nanostructuri pentru eliberarea de medicamente cu potential terapeutic (Bucuresti, Institutul de Biochimie, septembrie 2007)

Informatii aditionale

**Colaborari Internationale cu:**

-**Centre for Drug Delivery Research, The School of Pharmacy, University of 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

-**Martin-Luther-Universität Halle-Wittenberg, Germany,**1996-1997 Medizinische Fakultät, 1996-1997

-**Université des Sciences et Technologies de Lille, Lille, France,** 1994-1996

-**University of Glasgow, Glasgow, Scotland, UK -1998-2004, Dr. Jeremy Brock, Prof. James Brewer;**

-**Louisiana State Univesity Ag Center, Louisiana, USA, 2010-2015, Prof. Cristina Sabliov**

Membru in societati stiintifice si  
profesionale

- Romanian for Biochemistry and Molecular Biology (RSBMB);
- International Liposome Society (ILS)
- European Society for Clinical Investigations (ESCI)
- European Society for Nanomedicine (ESNAM),
- National Society of Immunology (NSI)

**Recunoastere a activitatii stiintifice:**

- 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

**Publicatii**

Publicatii - 68

- 56 (Web of Science)
- Citari– 638

**Lucrari relevante pentru domeniul de interes (selectie)**

- Moisei, M., Craciunescu, O., Moldovan, L., Roseanu A., **Trif, M.** Lipid Nanostructures Containing Atorvastatin Decrease Lipopolysaccharide-Induced Inflammation in Macrophages *J. Nanosci. Nanotechnol.* 17, 4631–4637 (2017)
- **Trif, M.**, Florian, P.E., Roseanu, A., et all., Cytotoxicity and intracellular fate of PLGA and chitosan-coated PLGA nanoparticles in Madin-Darby bovine kidney (MDBK) and human colorectal adenocarcinoma (Colo 205) cells, *J Biomed Mat Res part a*, 103, 3599-3611( 2015)
- **Trif, M.**, Craciunescu, O. Liposome as efficient system for intracellular delivery of bioactive molecules, in *NANOTECHNOLOGY AND FUNCTIONAL FOODS: EFFECTIVE DELIVERY OF BIOACTIVE INGREDIENTS* Edited by: Sabliov, CM; Chen, H; Yada, RY, John Wiley & Sons Inc, New York Pag: 191-213; July 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 all., 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

10.08.2020

Semnatura,

Mihaela Trif

