

INFORMAȚII PERSONALE

CLICHICI SIMONA VALERIA



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Naționalitatea Romana

EXPERIENȚA PROFESIONALĂ

2020
2016-prezent

Prodecă didactică, Facultatea de Medicină, UMF Cluj-Napoca
Profesor universitar, Șef de Disciplină

Disciplina de Fiziologie, Universitatea de Medicină și Farmacie "Iuliu Hațieganu", Cluj Napoca
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- Activități didactice, de cercetare, organizatorice
- Coordonator al Laboratorului de Studii *in vivo* al Disciplinei de Fiziologie, UMF, Cluj Napoca

EDUCAȚIE ȘI FORMARE

2007-2016
2003-2007
2000-2003
1997 – 2000
2000
1995- 2000
1999-2004
2004

Conferențiar

Șef de lucrări, UMF "Iuliu Hațieganu" Cluj-Napoca
Asistent Universitar, "Iuliu Hațieganu" Cluj-Napoca
Preparator, "Iuliu Hațieganu" Cluj-Napoca
Medic specialist Radiodiagnostic
Medic rezident, Radiodiagnostic, Spitalul Județean, Cluj-Napoca
Doctorat, UMF, Cluj-Napoca
Doctor în medicină - Distincția Cum laudae

COMPETENȚE PERSONALE

Limba maternă Română

Alte limbi străine cunoscute

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Franceza	C1	C1	C1	C1	C1
Certificat DALF nivel C1					
Engleza	B2	B2	B2	B2	B2

Competențe de comunicare

- bune competențe de comunicare dobândite prin experiența de predare de cursuri, lucrări practice, conferințe invitat, susținere de comunicări științifice

Competențe organizaționale/manageriale	Coordonator al Laboratorului de Studii <i>in vivo</i> al Disciplinei de Fiziologie Secretar general al Societății Române de Fiziologie Vicepreședinte ASOM – Asociația de Studiu a Stresului Oxidativ în Medicină Vicepreședinte BIOCOM – Centrul de studiu al biocompatibilității produșilor naturali și de sinteză Membru al Biroului de Consiliere al Doctoranzilor în cadrul Școlii Doctorale, UMF “Iuliu Hațieganu” Cluj-Napoca
Competențe dobândite la locul de muncă	Realizarea de modele experimentale, studiul stresului oxidativ <i>in vivo</i>
Competențe informatice	▪ bună cunoaștere Microsoft Office™
Permis de conducere	▪ Categoria B

INFORMAȚII SUPLIMENTARE

106 articole ISI publicate, 33 ca autor principal

Indice Hirsch: 22 (ISI web Core collection), 29 (Google scholar), 2321 citari ISI +BDI

Abilitare: octombrie 2017

Cărți de specialitate: 5

1. **Nanomaterials – Toxicity, Human Health and Environment**, Simona Clichici, Adriana Filip, Gustavo M do Nascimento (Eds), InTech, 2020
2. **Physiologie Notions Fondamentales**, Simona Clichici, Adriana Filip, Ed Casa Cărții de Știință, Cluj-Napoca, 2015, ISBN 978-606-17-0675-4, 166 pagini
3. **Noțiuni fundamentale de fiziologie clinică**, Adriana Filip, Simona Clichici, Ed Casa Cărții de Știință, Cluj-Napoca, 2014, ISBN 978-606-17-0509-2, 163 pagini
4. **Syntheses de fiziologie** Simona Clichici, Adriana Filip, Ed Casa Cărții de Știință, Cluj-Napoca, 2014, ISBN 978-606-17-0510-8, 120 pagini
5. **Precis de fiziologie**, Simona Clichici, Editura Medicală Universitară „Iuliu Hațieganu”, 2007

Capitole în cărți în editură internațională: 3

1. **Photodynamic therapy in skin cancer**, S Clichici, A Filip în **Skin Cancer Risk Factors, Prevention and Therapy** Edited by Caterina AM La Porta, Intech Eds, ISBN 979-953-307-092-5, 26 pag., 2011
2. **Chemoprevention of skin cancer by natural compounds** A. Filip, S Clichici în **Skin Cancer – Risk Factors, Prevention and Therapy**, Edited by Caterina AM La Porta Intech Eds, ISBN 979-953-307-092-5, 24 pag., 2011
3. **In vivo assessment of nanomaterials toxicity**, S Clichici and A Filip - **Nanomaterials - toxicity and risk assessment**, Edited by Sonia Soloneski and Marcelo L. Larramendy, InTech, 29 pag., 2015

Invenții și brevete: 3

1. „High concentration dispersion of single-walled carbon nanotubes în water by wrapping with single-stranded DNA”, Număr: RO125818-A2; Inventatori: Biriș AR, Clichici SV, Lupu DM, Misan I, Mocan T, Simon S .
2. „Photochemoprotective gel for protection against ultraviolet radiation comprises carbopol, triethanol amine, glycerol, methyl p-hydroxybenzoate, propyl p-hydroxybenzoate and ethyl alcohol .”, - Patent Number: RO127720-A2 - Inventatori: Achim M, Barbos O, Brie I, Chereches G, Clichici S, Daicoviciu D, Dicu T, Filip GA, Fisher FE, Moldovan R, Muresan A, Perde SM, Postescu ID, Soritau O, Suci SM, Tatomir C, Virag P
3. „PHOTOCHEMOPROTECTIVE CREAM AND PROCESS FOR PREPARING BY THE EMULSION AND ITS USE .”, - Patent Number: RO127719-A2 Inventatori: Achim M, Barbos O, Brie I, Chereches G, Clichici S, Daicoviciu D, Dicu T, Filip GA, Fisher FE, Moldovan R, Muresan A, Perde SM, Postescu ID, Soritau O, Suci SM, Tatomir C, Virag P

Premii și distincții: 27

Cele mai relevante: Premiul „Victor Papilian” – pentru discipline fundamentale (Premiu al Facultatii de Medicina – 2012, 2015); 16 premii UEFSCDI la premiarea rezultatelor cercetării; Medalia de bronz Agentia de stat pentru proprietatea intelectuala a Republicii Moldova , Salon de Inventica „Proinvent”, 2008; Diplomă de Excelență si medalia de aur – pentru preparate farmaceutice cu efecte fotochemoprotectoare la Salonul International de Inventica „Proinvent”, editia a IX-a, 2011

Lucrări ISI reprezentative:

Gligor O, **Clichici S**, Moldovan R, Muntean D, Vlase AM, Nadăș GC, Filip GA, Vlase L, Crișan G *Influences of Different Extraction Techniques and Their Respective Parameters on the Phytochemical Profile and Biological Activities of Xanthium spinosum L. Extracts*. Plants (Basel). 2022 ;12(1):96. **IF = 4,65**.

Tudor DV, Florea A, Cenariu M, Olteanu DE, Farcaș M, Hopârtean A, **Clichici SV**, Filip GA. Low dose of Celecoxib might promote phenotype switching in cutaneous melanoma treated with Dabrafenib – Preliminary study. J Clin Med. 2022 Aug 4;11(15):4560. **IF = 4,96**

Cristina Bidian, Gabriela Adriana Filip, Luminița David, Bianca Moldovan, Ioana Baldea, Diana Olteanu, Mara Filip, Pompei Bolfa, Monica Potara, Alina Mihaela Toader & **Simona Clichici**. *Viburnum opulus fruit extract-capped gold nanoparticles attenuated oxidative stress and acute inflammation in carrageenan-induced paw edema model* Green Chem. Letters and Reviews. 2022, 15 (2): 319–335. **IF=4.99**

Razvan Vlad Opris, Vlad Toma, Alina Mihaela Baci, Remus Moldovan, Bogdan Dume, Alexandra Berghian-Sevastre, Bianca Moldovan, **Simona Clichici**, Luminita David, Gabriela Adriana Filip and Adrian Florea *Neurobehavioral and Ultrastructural Changes Induced by Phytosynthesized Silver-Nanoparticle Toxicity in an In Vivo Rat Model*. Nanomaterials 2022, 12, 58. **IF = 5,07**

Gabriela Adriana Filip, Marcela Achim, Paula Mihalte, Maria Olimpia Miclaus, Cecilia Cristea, Gheorghe Melinte, Bogdan Gheban, Dana Maria Munteanu, Oana Cadar, Ioan Simon, Ovidiu Pana, Lucian Barbu Tudoran, **Simona Clichici**, Razvan Stefan *Design, in vitro bioactivity and in vivo influence on oxidative stress and matrix metalloproteinases of bioglasses in experimental skin wound* J of Trace Elements in Med and Biol 2021, 68(5):126846. **IF=3,84**

Mureșan M, Olteanu D, Filip GA, **Clichici S**, Baldea I, Jurca T, Pallag A, Marian E, Frum A, Gligor FG, Svera P, Stancu B, Vicaș L. *Comparative Study of the Pharmacological Properties and Biological Effects of Polygonum aviculare L. herba Extract-Entrapped Liposomes versus Quercetin-Entrapped Liposomes on Doxorubicin-Induced Toxicity on HUVECs*. Pharmaceutics. 2021 Sep 7;13(9):1418. doi: 10.3390/pharmaceutics13091418. **IF=6,32**

Vlad Dionisie, Adela Magdalena Ciobanu, Vlad Alexandru Toma, Mihnea Costin Manea, Ioana Baldea, Diana Olteanu, Alexandra Sevastre-Berghian, **Simona Clichici**, Mirela Manea, Sorin Riga and Gabriela Adriana Filip *Escitalopram Targets Oxidative Stress, Caspase-3, BDNF and MeCP2 in the Hippocampus and Frontal Cortex of a Rat Model of Depression Induced by Chronic Unpredictable Mild Stress* Int J Molec Sci 2021, 22(14):7483. **IF=5,92**

Gabriela Adriana Filip, Adrian Florea, Diana Olteanu, **Simona Clichici**, Luminita David, Bianca Moldovan, Mihai Genariu, Ioana Scrobota, Monica Potara, Ioana Baldea. *Biosynthesis of silver nanoparticles using Sambucus nigra L. fruit extract for targeting cell death in oral dysplastic cells*, Materials Science and Engineering, 2021 Apr;123:111974. doi: 10.1016/j.msec.2021.111974. **IF = 7,32**

Sevastre-Berghian AC, Ielciu I, Mitre AO, Filip GA, Oniga I, Vlase L, Benedec D, Gheldiu AM, Toma VA, Mihart B, Mihuț A, Bâldea I, Olteanu D, Chis IC, **Clichici SV**, Hanganu D *Targeting Oxidative Stress Reduction and Inhibition of HDAC1, MECP2, and NF-kB*

Pathways in Rats With Experimentally Induced Hyperglycemia by Administration of Thymus marshallianus Willd. Extracts. Front Pharmacol. 2020 Sep 23;11:581470. doi: 10.3389/fphar.2020.581470. eCollection 2020. **IF= 5,81**

Vicas LG, Jurca T, Baldea I, Filip GA, Olteanu D, **Clichici SV**, Pallag A, Marian E, Micle O, Crivii CB, Suciuc T, Craciun I, Gligor FG, Muresan M *Physalis alkekengi L. Extract Reduces the Oxidative Stress, Inflammation and Apoptosis in Endothelial Vascular Cells Exposed to Hyperglycemia.* Molecules. 2020 Aug 17;25(16):3747. **IF= 4,41**

Clichici S, David L, Moldovan B, Baldea I, Olteanu D, Filip M, Nagy A, Luca V, Crivii C, Mircea P, Katona G, Filip GA. Hepatoprotective effects of silymarin coated gold nanoparticles in experimental cholestasis. Mater Sci Eng C Mater Biol Appl. 2020 Oct;115:111117. IF= 7.328

Pop DD, Mitrea DR, Suciuc S, Clichici SV. Nanostructure-based therapies for liver fibrosis. J Physiol Pharmacol. 2020 Dec;71(6). IF = 3.011

Filip GA, Moldovan B, Baldea I, Olteanu D, Suharoschi R, Decea N, Cismaru CM, Gal E, Cenariu M, **Clichici S**, David L. UV-light mediated green synthesis of silver and gold nanoparticles using Cornelian cherry fruit extract and their comparative effects in experimental inflammation. J Photochem Photobiol B. 2019 Feb;191:26-37. IF=4.383

Opris R, Toma V, Olteanu D, Baldea I, Baciu AM, Lucaci FI, Berghian-Sevastre A, Tatomir C, Moldovan B, **Clichici S**, David L, Florea A, Filip GA. Effects of silver nanoparticles functionalized with Cornus mas L. extract on architecture and apoptosis in rat testicle. Nanomedicine (Lond). 2019 Feb;14(3):275-299. IF= 4.3

Chis I C, Socaciuc M, Moldovan R, **Clichici S**. Vascular impact of quercetin administration in association with moderate exercise training in experimental type 1 diabetes. Revista Romana de Medicina de Laborator, vol.27, no.3, 2019, pp.269-279. IF= 0.945

Baldea I, Florea A, Olteanu D, **Clichici S**, David L, Moldovan B, Cenariu M, Achim M, Suharoschi R, Danescu S, Vulcu A, Filip GA. Effects of silver and gold nanoparticles phytosynthesized with Cornus mas extract on oral dysplastic human cells. Nanomedicine (Lond). 2020 Jan;15(1):55-75. IF=4.3

Mitrea DR, Malkey R, Florian TL, Filip A, **Clichici S**, Bidian C, Moldovan R, Hoteiuc OA, Toader AM, Baldea I. Daily oral administration of chlorogenic acid prevents the experimental carrageenan-induced oxidative stress. J Physiol Pharmacol. 2020 Feb;71(1). IF=2.644

Domsa EM, Filip GA, Olteanu D, Baldea I, **Clichici S**, Muresan A, David L, Moldovan B, Para I, Suciuc M, Achim M, Negrean V, Andreica V. Gold nanoparticles phytoreduced with Cornus mas extract mitigate some of gliadin effects on Caco-2 cells. J Physiol Pharmacol. 2020 Apr;71(2). IF=2.644

David L, Moldovan B, Baldea I, Olteanu D, Bolfa P, **Clichici S**, Filip GA. Modulatory effects of Cornus sanguinea L. mediated green synthesized silver nanoparticles on oxidative stress, COX-2/NOS2 and NFkB/pNFkB expressions in experimental inflammation in Wistar rats, Materials Science and Engineering: C, 2020, Volume 110,110709 IF=5.88

Filip GA, Florea A, Olteanu D, Clichici S, David L, Moldovan B, Cenariu M, Scrobota I, Potara M, Baldea I. Biosynthesis of silver nanoparticles using Sambucus nigra L. fruit extract for targeting cell death in oral dysplastic cells, Materials Science and Engineering: C, 2021, Volume 123, 111974, IF= 7.328

Bidian C, Filip GA, David L, Florea A, Moldovan B, Robu D, Olteanu D, Radu T, Clichici S, Mitrea DR. The impact of silver nanoparticles phytosynthesized with Viburnum opulus L. extract on the ultrastructure and cell death in the testis of offspring rats, Food and Chemical Toxicology, 2021, Volume 150, 112053

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Mitrea DR, H Mortazavi Moshkenani, Hoteiuc OA, Bidian C, Toader AM, **Clichici S**. Antioxidant protection against cosmic radiation-induced oxidative stress at commercial flight altitude. J Physiol Pharmacol. 2018; 69(4): 1899-1905. **IF=2.72**

Clichici S, Olteanu D, Nagy AL, Oros A, Filip A, Mircea PA, Beneficial Effects of Silymarin After the Discontinuation of CCl4-Induced Liver Fibrosis, Journal of Medicinal Food, 19 (8), 789-797, 2015, . **IF = 1.995**

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Olteanu D, Nagy A, Dudea M, Filip A, Muresan A, Catoi C, Mircea PA, **Clichici S**. Hepatic and systemic effects of rosuvastatin on an experimental model of bile duct ligation in rats. *J Physiol Pharmacol*. 2012 Oct; 63(5): 483-96. **IF=2.72**

David L, Moldovan B, Vulcu A, Olenic L, Perde-Schrepler M, Fischer-Fodor E, Florea A, Crisan M, Chiorean I, **Clichici S**, Filip GA. Green synthesis, characterization and anti-inflammatory activity of silver nanoparticles using European black elderberry fruits extract. *Colloids Surf B Biointerfaces*. 2014 Oct 1; 122:767-77. doi: 10.1016/j.colsurfb.2014.08.018. Epub 2014 Aug 22. **IF=4,2**

Clichici S, Biris AR, Catoi C, Filip A, Tabaran F. Short-term splenic impact of single-strand DNA functionalized multi-walled carbon nanotubes intraperitoneally injected in rats. *J Appl Toxicol*. 2014 Apr;34(4):332-44. doi: 10.1002/jat.2883. Epub 2013 May 16. **IF = 3.17**

Clichici S, Biris AR, Tabaran F, Filip A. Transient oxidative stress and inflammation after intraperitoneal administration of multiwalled carbon nanotubes functionalized with single strand DNA in rats. *Toxicol Appl Pharmacol*. 2012 Mar 15;259(3):281-92. doi: 10.1016/j.taap.2012.01.004. Epub 2012 Jan 16. **IF=3.63**

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Olteanu D, Baldea I, **Clichici S**, Bolfa P, Cenariu M, Schrepler-Perde M, Alupei M, Muresan A, Filip A. In vitro studies on the mechanisms involved in chemoprevention using *Calluna vulgaris* on vascular endothelial cells exposed to UVB. *J Photochem Photobiol B*. 2014 Jul 5;136:54-61. doi: 10.1016/j.jphotobiol.2014.04.018. Epub 2014 May 2. **IF = 2.89**

Mureșan A, Suci S, Daicovicu D, Filip AG, **Clichici S**. Grape seed extract effects in brain after hypobaric hypoxia. *J Med Food*. 2013 Sep; 16(9):831-8. doi: 10.1089/jmf.2012.0196. **IF = 1.69**

Bolfa P, Vidrighinescu R, Petruta A, Dezmirean D, Stan L, Vlase L, Damian G, Catoi C, Filip A, **Clichici S**. Photoprotective effects of Romanian propolis on skin of mice exposed to UVB irradiation. *Food Chem Toxicol*. 2013 Dec;62:329-42. doi: 10.1016/j.fct.2013.08.078. Epub 2013 Sep 3. **IF= 2.61**

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Filip A, **Clichici S**, Daicovicu D, Catoi C, Bolfa P, Postescu ID, Gal A, Baldea I, Gherman C, Muresan A., *Chemopreventive effects of Calluna vulgaris and Vitis vinifera extracts on UVB-induced skin damage in SKH-1 hairless mice*. *J Physiol Pharmacol*. 2011 Jun;62(3):385-92. **IF=2.72**

Mocan T, **Clichici S**, Biris AR, Simona S, Catoi C, Tabaran F, Filip A, daicovicu D, Decea N, Moldovan R, Mocan L, Muresan A, *Dynamic effects over plasma redox balance following subcutaneous injection of single walled carbon nanotubes functionalized with single strand DNA*, *Digest Journal of Nanomaterials and Biostructures*, vol 6, no 3 July-september 2011, p 1207-1214. **IF=1.12**

Filip AG, **Clichici S**, Daicovicu D, Ion RM, Tatomi C, Rogoian L, Opris I, Mocan T, Olteanu D, Mureșan A, *Possible mechanisms involved in vivo in photodynamic therapy using tetrapyrrolic macrocycles*, *Braz J Med Biol Res*. 2011, 44(1):53-61 **IF=1.13**

Filip A, Daicovicu D, **Clichici S**, Mocan T, Muresan A, Postescu ID, *Photoprotective effects of 2 Natural Products on Ultraviolet B-Induced Oxidative Stress and Apoptosis in SH-1 Mouse Skin*, *J Med Food*, 14(7-8) 761-6, 2011. **IF=1,69**

Biris AR, Dervishi E, Simon S, Lupu D, Misan I, Iancu C, **Clichici SV**, Xu Y, Watanabe F, Biris AS, *Analytic studies of high quality singlewall carbon nanotubes synthesized on a novel Fe:Mo:MgO catalyst*, Physica E 2010, 43 (1): 552-558 **IF = 1.3**

Ion RM, Daicovicu D, Filip GA, **Clichici S**, Muresan A. *Oxidative stress effects of fullerene-porphyrin derivatives in photodynamic therapy*, J Porphyrins Phthalocyanines, 16, 870-877, 2012. **IF=1,36**

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Mocan T, **Clichici S**, Agoșton-Coldea L, Mocan L, Șimon Ș, Ilie IR, Biriș AR, Mureșan A, *Implications of oxidative stress mechanisms in toxicity of nanoparticles*, Acta Physiologica Hungarica, 2010, 97(3):247-55 **IF=1.226**

Clichici S, Filip A, Daicovicu D, Ion RM, Mocan T, Tatomir C, Rogoian L, Olteanu D, Muresan A, *The dynamics of reactive oxygen species in photodynamic therapy with tetra sulfophenyl-porphyrin*, Acta Physiologica Hungarica, 2010, 97 (1): 41–5 **IF=1.226**

Olteanu D, Filip A, Mureșan A, Nagy A, Tabaran F, Moldovan R, Decea N, Catoi C, **Clichici S**. The effects of chitosan and low dose dexamethasone on extrahepatic cholestasis after bile duct ligation in Wistar rats. Acta Physiol Hung. 2012 Mar; 99(1):61-73. doi: 10.1556/APhysiol.99.2012.1.7. **IF=0.882**

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Gherman C, Mironiuc A, Palcau L, Cristea A, Muresan A, Filip A, **Clichici S**, Micula S, *Adipocytokine and their relationship with symptomatic atherosclerotic peripheral arterial disease*, Romanian Review of Laboratory Medicine, 2010, 1/4, 18: 23-32 **IF= 0.17**

Simon S, Biris AR, Lupu DM, Misan I, Biris AS, **Clichici S**, Iancu C, *Carbon nanotubes via catalytic chemical vapor deposition method using induction heating - an advantageous route*, Revue Roumaine de Chimie, 2011 **IF = 0.418**

Clichici S, Catoi C, Mocan T, Filip A, Login C, Nagy A, Daicovicu D, Decea N, Gherman C, Moldovan R, Mureșan A, *Non-invasive oxidative stress markers for liver fibrosis development in toxic hepatitis evolution*, Acta Physiologica Hungarica, 2011, 98 (2): 189-198 **IF=0.82**

Clichici S., Mocan T, Filip A, Biris A, Simon S, Daicovicu, Decea N, Parvu A, Moldovan R, Mureșan A, *Blood oxidative stress generation after intraperitoneal administration of functionalized single-walled carbon nanotubes in rats*, Acta Physiologica Hungarica, 2011, 98 (2): 225–234 **IF=0.82**

Persa OD, Joanta AE, Miclutia I, Decea N, Balaj R, **Clichici S**, Szentagotai L. *Correlations between thyroid stimulating hormone (TSH) and oxidative stress in mixed dementia*. Acta endocrinologica (Bucharest), 2013, vol 9(2), 161-169 **IF= 0.21**

Maghraoui S, **Clichici S**, Ayadi A, Login C, Moldovan R, Daicovicu D, Decea N, Mureșan A, Tekaya L. *Oxidative stress in blood and testicle of rat following intraperitoneal administration of aluminum and indium*. Acta Physiol Hung. 2014 Mar;101(1):47-58. doi: 10.1556/APhysiol.100.2013.021. **IF=0.74**

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Proiecte de cercetare – dezvoltare – inovare pe bază de contract/grant obținute prin competiție:

1. CERES 203/2004, membru - "Influența alimentației bogate în flavonoizi asupra stresului oxidativ din menopauza indusă experimental la șobolani ", director Prof Dr Adriana Muresan, 2004-2006
2. CEEX 10/2005, membru - "Studii pe modele in vitro si pe tumori experimentale privind efectul antioxidant al unor produse naturali –PAOT", Responsabil proiect: Prof. dr. Adriana Muresan, 2005-2008
3. PN II 42104, membru - "Fotochemoprotectia prin produse naturali in cancerele epiteliale fotoinduse, membru, 2008-2011
4. PN II 421120/2008 Evaluarea si modularea biodistributiei si citotoxicitatii nanotuburilor de carbon cu aplicatii biomedicale, **Director de proiect**, 2008-2011
5. CEEX 102/2006, membru - Biocomposite cu porfirine cu aplicabilitate in terapia fotodinamica a tumorilor maligne cutanate, 2006-2008
6. PN II 42115/2008, membru - Nanoterapia fototermica selectiva a hepatocarcinomului prin internalizarea intracelulara si mecanism de activare LASER a nanotuburilor de carbon bio-ligand functionalizate, 2008-2011

7. PN II 12131/2008 Sistem expert pentru prognosticul neinvaziv a evolutiei patologiei hepatice cornice prin analiza parametrilor biologici si de hemodinamica portala, **Director de proiect**, 2008-2011
8. PN-II-PT-PCCA-2011-3.1-0914 tip 1 Produse dermatologice pe baza de biomateriale hibride obtinute din antociani si nanoparticule metalice, membru, 2012-2015
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