

INFORMAȚII PERSONALE

CLICHICI SIMONA VALERIA


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Naționalitatea Romana

EXPERIENȚA PROFESIONALĂ

2024-2029
2020 -2024
2016-prezent

Prodecan științific, Facultatea de Medicină, UMF Cluj-Napoca
Prodecan didactic, Facultatea de Medicină, UMF Cluj-Napoca
Profesor universitar, Șef de Disciplină

Disciplina de Fiziologie, Universitatea de Medicină și Farmacie "Iuliu Hațieganu", Cluj Napoca
Str V. Babeș nr. 8, 40023 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

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

Profesor, UMF "Iuliu Hațieganu" Cluj-Napoca
Conferențiar, UMF "Iuliu Hațieganu" Cluj-Napoca
Șef de lucrări, UMF "Iuliu Hațieganu" Cluj-Napoca
Asistent Universitar, UMF "Iuliu Hațieganu" Cluj-Napoca
Preparator, IMF "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 BIOCOM – Centrul de studiu al biocompatibilității produselor naturali și de sinteză
Coordonator al Laboratorului de Studii *in vivo* al Disciplinei de Fiziologie
Președinte al Societății Române de Fiziologie (2024-)
Secretar general al Societății Române de Fiziologie (2000-2024)
Vicepreședinte ASOM – Asociația de Studiu a Stresului Oxidativ în Medicină
Vicepreședinte BIOCOM – Centrul de studiu al biocompatibilității produselor naturali și de sinteză
Membru CSUD în cadrul Școlii Doctorale, UMF “Iuliu Hațieganu” Cluj-Napoca
Membru Board of General Assembly (BGA) în cadrul IUPS

Competențe dobândite la locul de muncă

Realizarea de modele experimentale, studiul stresului oxidativ *in vivo*

Competențe informatice

▪ bună cunoaștere Microsoft Office™

Permis de conducere

▪ Categoria B

INFORMAȚII SUPLIMENTARE

133 de articole ISI publicate, 39 ca autor principal

Indice Hirsch: 27 (ISI web Core collection), 35 (Google scholar), 3688 citări ISI +BDI

Abilitare: octombrie 2017

Cărți de specialitate: 4

1. **Physiologie Notions Fondamentales, Simona Clichici**, Adriana Filip, Ed Casa Cărții de Știință, Cluj-Napoca, 2015, ISBN 978-606-17-0675-4, 166 pagini
2. **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
3. **Syntheses de physiologie Simona Clichici**, Adriana Filip, Ed Casa Cărții de Știință, Cluj-Napoca, 2014, ISBN 978-606-17-0510-8, 120 pagini
4. **Precis de physiologie, Simona Clichici**, Editura Medicală Universitară „Iuliu Hațieganu”, 2007

Capitole în cărți de specialitate: 3

1. **Inima; Celulele sangvine, imunitatea și coagularea sângelui** în Fiziologie a omului, ghid de examinare, Guyton & Hall (ediția în limba română), Editori Gh. Cuculici, Anca Gheorghiu, Editura Callisto, 2019
2. Walter F. Boron, Emilie L. Boulpaep, Leon G. Zăgran (coord. Ediției în limba română), **Fiziologie Medicală**, Ediția a 3-a, Ed. Hipocrate, 2017
3. Guyton & Hall “Tratat de fiziologie a omului”, Editura Callisto, Ediția 13, 2016, traducere în limba română, 2018

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); 25 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 și medalia de aur – pentru preparate farmaceutice cu efecte fotochemoprotectoare la Salonul International de Inventica „Proinvent”, editia a IX-a, 2011

Lucrări ISI reprezentative:

Hojda SE, Chis IC, **Clichici S.** Magnesium Sulfate, Rosuvastatin, Sildenafil and Their Combination in Chronic Hypoxia-Induced Pulmonary Hypertension in Male Rats. *Life (Basel)*; **2024**, 14(9):1193

Filip, M.; Baldea, I.; David, L.; Moldovan, B.; Flontas, G.C.; Macavei, S.; Muntean, D.M.; Decea, N.; Tigu, A.B.; **Clichici, S.V.** Hybrid Material Based on *Vaccinium myrtillus* L. Extract and Gold Nanoparticles Reduces Oxidative Stress and Inflammation in Hepatic Stellate Cells Exposed to TGF- β . *Biomolecules* **2023**, 13, 1271

Neculicioiu, V.S.; Colosi, I.A.; Costache, C.; Toc, D.A.; Sevastre-Berghian, A.; Colosi, H.A.; Clichici, S. Sleep Deprivation-Induced Oxidative Stress in Rat Models: A Scoping Systematic Review. *Antioxidants* **2023**, 12

Antemie RG, Samoilă OC, **Clichici SV.** Blue light – Ocular and systemic damaging effects: A narrative review, *Int J Mol Sci*, 2023, 24(6):5998

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.

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.

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.

Razvan Vlad Opris, Vlad Toma, Alina Mihaela Baciuc, 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.

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.

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.

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.

Gabriela Adriana Filip, Adrian Florea, Diana Olteanu, **Simona Clichici**, Luminita David*, Bianca Moldovan, Mihai Cenariu, 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.

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.

Vicas LG, Jurca T, Baldea I, Filip GA, Olteanu D, **Clichici SV**, Pallag A, Marian E, Mide O, Crivii CB, Suciu 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

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.

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Opris R, Toma V, Olteanu D, Baldea I, Baci 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.

Chis I C, Socaciu 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.

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.

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).

Domsa EM, Filip GA, Olteanu D, Baldea I, **Clichici S**, Muresan A, David L, Moldovan B, Para I, Suciu 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).

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

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

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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Sevastre-Berghian AC, Toma VA, Sevastre B, Hanganu D, Vlase L, Benedec D, Oniga I, Baldea I, Olteanu D, Moldovan R, Decea N, Filip GA, **Clichici SV**. Characterization and biological effects of Hypericum extracts on experimentally-induced - anxiety, oxidative stress and inflammation in rats. *J Physiol Pharmacol*. 2018 Oct;69(5).

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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.

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Chis IC, Coseriu A, Simedrea R, Oros A, Nagy AL, **Clichici S**. In vivo effects of Quercetin in association with moderate exercise training in improving streptozotocin-induced aortic tissue injuries, *Molecules*, 20(12), 21770 – 21786, 2015.

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.

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.

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.

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.

Pogacean Florina, Biris AR, Coros M, Watanabe F, Biris AS, **Clichici S**, Filip A, Pruneanu S, Electrochemical oxidation of adenine using platinum electrodes modified with carbon nanotubes, *PhysicaE-Low dimensional systems & nanostructures*, 2014, vol 59, pag 181-185.

Olteanu D, Baldea I, **Clichici S**, Bolfa P, Cenariu M, Schrepler-Perde M, Alupeu 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.

Mureșan A, Sucișu S, Daicoviciu 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.

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.

Filip GA, Postescu ID, Bolfa P, Catoi C, Muresan A, **Clichici S**. Inhibition of UVB-induced skin phototoxicity by a grape seed extract as modulator of nitrosative stress, ERK/NF-κB signaling pathway and apoptosis, in SKH-1 mice. *Food Chem Toxicol*. 2013 Jul;57:296-306. doi: 10.1016/j.fct.2013.03.031. Epub 2013 Apr 6.

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A. Filip, Doina Daicoviciu, **Simona Clichici**, Pompei Bolfa, Cornel Catoi, Ioana Baldea, Iana Bolojan, Diana Olteanu, Adriana Muresan, ID Postescu, *The effects of grape seeds polyphenols on SKH-1 mice skin irradiated with multiple doses of UV-B*, *J. Photochem. Photobiol. B: Biol*. 133-142, 105, 2011.

Filip A, **Clichici S**, Daicoviciu 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.

Mocan T, **Clichici S**, Biris AR, Simona S, Catoi C, Tabaran F, Filip A, daicoviciu 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.

Filip AG, **Clichici S**, Daicoviciu D, Ion RM, Tatomir C, Rogojan 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

Filip A, Daicoviciu 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.

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

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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.

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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

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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

Maghraoui S, **Clichici S**, Ayadi A, Login C, Moldovan R, Daicoviciu 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.

Daicoviciu D, Filip A, Ion RM, **Clichici S**, Decea N, . Muresan A, *Oxidative Photodamage Induced by Photodynamic Therapy With Methoxyphenyl Porphyrin Derivatives in Tumour-Bearing Rats*, Folia Biologica (Praha), 2010, 56: 12-19.

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 canceralele 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 portală, **Director de proiect**, 2008-2011
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