



CURRICULUM  
VITAE  
EUROPEAN



INFORMAȚII  
PERSONALE

Nume  
E-mail  
Naționalitate  
Data nașterii

**Anca Oana HERMENEAN**  
[anca.hermenean@gmail.com](mailto:anca.hermenean@gmail.com)  
Română  
23 iulie 1968, Siria, jud.Arad

EXPERIENȚA  
PROFESIONALĂ

Perioada  
Numele și  
adresa  
angajatorului  
Tipul activității  
sau sectorului  
de activitate  
Funcții sau  
posturi ocupate

**1994 - prezent**  
Universitatea Vasile Goldis din Arad, Str. Revoluției nr.94-96, Arad, Romania,  
[www.uvvg.ro](http://www.uvvg.ro)

Profesia – **biolog**  
Activitate didactică și de cercetare

**1995-1997** Preparator universitar la Disciplina Biologie Celulară și Moleculară, Facultatea de Medicină, Farmacie și Medicina Dentară, Universitatea de Vest Vasile Goldis Arad

**1997-2002** Asistent universitar la Disciplina Histologie, Facultatea de Medicină, Farmacie și Medicina Dentară, Universitatea de Vest Vasile Goldis Arad

**2002-2005** Lector universitar la Disciplina Histologie, Facultatea de Medicină, Farmacie și Medicina Dentară, Universitatea de Vest Vasile Goldis Arad

**2005-2010** Conferențiar la Disciplina Histologie, Facultatea de Medicină, Farmacie și Medicina Dentară, Universitatea de Vest Vasile Goldis Arad; șef disciplină

**2010-prezent** Profesor universitar la Disciplina Histologie, Facultatea de Medicină, Farmacie și Medicina Dentară, Universitatea de Vest Vasile Goldis Arad; șef disciplină

**2005-2007** Director executiv al Centrului de Cercetări în Științe Biologice, Universitatea de Vest Vasile Goldis Arad

**2006-2008** Director Adjunct Cercetare a Universității "Vasile Goldis" Arad

**2005 – 2009** Șef al catedrei I Preclinic – discipline functionale și morfologice, Facultatea de Medicină, Farmacie și Medicina Dentară, Universitatea de Vest Vasile Goldis Arad

**2005-2007** – Redactor șef al Revistei Studia Universitatis Vasile Goldis, Seria Științele Vieții

**2010-prezent** – Director Științific al Institutului de Științe ale Vieții al UVVG

**2010-prezent** - Prorector Cercetare a Universității de Vest Vasile Goldis din Arad

**2016** – Director al IOSUD – UVVG Arad

**ACTIVITATEA DIDACTICĂ**

**2005-prezent** curs de Histologie ciclul licență, Specializarea Medicină (an II), Medicină Dentară (an I), Balneofiziokinetoterapie (an I) și Nutritie (an II).

**2015 – Coordonator doctorat domeniu Biologie**  
(Certificat Abilitare cf. Ordin Ministru nr. 4922/18.08.2015)

Principalele  
activități și  
responsabilități

## CERCETARE

Domenii de interes: fitomedicină, toxicologie, inginerie tisulară, biologia cancerului

**Indici scientometrici: Indice Hirsch = 10** (Google Academic), **322 citări** (Google Academic), **6 cursuri universitare și cărți de specialitate; 38 articole ISI, 55 articole BDI/CNCSIS**

Patent European: “*Pharmaceutical composition useful for preventing and treating liver disease, comprises oil isolated from Silybum marianum seed*”, Patent Number:

WO2013124700-A2; HU201300110-A1, Patent assignee: Univ. Debrecen, Hungary and Vasile Goldis Western University of Arad, Romania

Inventors: **Anca HERMENEAN**, Aurel ARDELEAN, Miklós ZSUGA, Sándor KÉKI, György DEÁK, Cristina POPESCU, Zoltán UJHELYI, Ildikó BÁCSKAY, Gavril ARDELEAN, Marieta COSTACHE, Anca DINISCHIOTU, Violeta TURCUS, Ciprian MIHALI, Miklós VECSENYÉS, Ferenc FENYVESI, Tímea KISS, Judit VÁRADI, FEHÉR Pálma SIPOSNÉ

**Contracte de cercetare: 10 internationale** (4 management-manager/assistant manager/coordinator partener, 6 expert); **13 national**, din care: 2 CNCSIS (2 colaborator/scientific manager), 3 CEEEX (1 manager, 2 colaborator), 1 PN II – Programme 4 Partnerships (2 director/responsabil), 1 IMPACT (1 director), 4 GAR Granturi ale Academiei Române (2 director, 2 colaborator), 1 Bridge Grant, 1 PED

### Profesor invitat/Conferințe invitate in tara si strainatate:

- XI<sup>eme</sup> Ecole d’Ete Francophone , „Pathologie et Pharmacologie Moleculaire, Biotechnologies” Universite Vasile Goldis ARAD, 4-16 iulie 2005, 1 conferinta :  
« *Applications des méthodes de la biologie cellulaire et moléculaire à l’étude des effets thérapeutiques d’extraits et de principes actifs d’origine végétale - Effets immunostimulants*”
- XII<sup>eme</sup> Ecole d’Ete Francophone, „Pathologie et Pharmacologie Moleculaire, Biotechnologies” Universite Vasile Goldis ARAD, 10-23 iulie 2006, 1 conferinta :  
« *Applications des nanotechnologies dans le diagnostic et la thérapie du cancer*”
- XIII<sup>eme</sup> Ecole d’Ete Francophone „Pathologie et Pharmacologie Moleculaire, Biotechnologies” Universite Vasile Goldis ARAD, 9-21 iulie 2007, 2 conferinte :  
« *Apoptose et thérapie du cancer - Disfonctionnement des voies de l’apoptose dans la cellule cancéreuse; Signal calcium et résistance à l’apoptose des cellules cancéreuses; Essais cliniques de dragues anticancéreuses industries d’apoptose*”
- XIV<sup>eme</sup> Ecole d’Ete Francophone „Pathologie et Pharmacologie Moleculaire, Biotechnologies” Universite Vasile Goldis ARAD, 7-19 iulie 2008, 2 conferinte :  
« *Applications des méthodes de la biologie cellulaire et moléculaire à l’étude des effets thérapeutiques d’extraits et de principes actifs d’origine végétale – Effets immunostimulants (1) ; - Effets antioxydants (2)*”
- International Conference on Phytochemicals in Health and Disease (ICPHD-13)” , Annamalai University, Chidambaram, Tamil Nadu, India, 23- 25 January, 2013; sesiune plenara : “Comparative evaluation of hepato-renal protection of flavonoids against toxicity induced by xenobiotics”

## STUDII ȘI CURSURI DE SPECIALITATE

**1989 –1994** - Licență în Biologie, Facultatea de Biologie,Geografie, geologie, Sepcializarea Biologie, Universitatea „Babes-Bolyai” Cluj-Napoca

**1997-2003** – Doctor in stiinte Biologice, Universitatea „Babes-Bolyai” Cluj-Napoca, Titlul tezei de doctorat: *Studii structurale si functionale privind efectele unor extracte bioactive de Echinacea asupra ficatului si organelor hemato si limfopietice la sobolan*

*Cursuri de formare:*

**1995** - International Training Course on Biomembranes and Diseases, Univ.of Medicine and Pharmacy Cluj/Napoca, July 1995

**2000** - 2<sup>nd</sup> German - Romanian Genetics Course „Genetics and Medicine Today”, Arad-Oradea

**2008** - **Manager de proiect** (diploma seria E nr.0107518 certificata de Ministerul Muncii si Ministerul Educatiei), Curs formare Schultz Consulting Romania, Camera de Comert si Industrie a Romaniei;

**2007** - **Auditor extern de mediu ISO 14001** (diploma seria E nr. 0187898 certificata de Ministerul Muncii si Ministerul Educatiei) Curs de formare Floyd Advertising Romania

**2007** - **Auditor extern de calitate ISO 9001** (diploma seria E nr. 0187898 certificata de Ministerul Muncii si Ministerul Educatiei) Curs de formare Floyd Advertising Romania

**2011** – absolvent al modulului de formare în managementul universitar

“**Managementul cercetării**”, organizat în cadrul proiectului Strategic “Imbunatașirea Managementului Universitar” al UEFISCDI

*Cursuri specializare în fonduri europene:*

**Februarie-mai 2007 Curs de instruire avansata pentru accesarea fondurilor structurale** Horizontal Training on Structural Instruments/ Eu Commission, finantat de Ministerul de Finante, Autoritatea de Coordonare ale Instrumentelor Structurale in Romania

**Iunie-septembrie 2007 Cursuri de instruire avansata pentru accesarea fondurilor structurale prin Programul Operational Regional (POR) : modulele de achizitii publice, elaborare proiect, implementare/management proiect, finantat de Ministerul Dezvoltarii Regionale**

**LIMBA MATERNĂ  
LIMBI STRĂINE  
CUNOSCUTE**

**Română**

**Engleza** (citit, scris, vorbit - bine)

**APTITUDINI ȘI  
COMPETENȚE  
TEHNICE**

Microsoft Windows, Microsoft Project Manager, Microsoft Visio, Microsoft Office, Microsoft Excell

**ALTE ACTIVITĂȚI**

**Membra a asociațiilor profesionale :**

- Societatea Nationala de Biologie Celulară - secretar stiintific al SNBC Arad din 1997; vicepresedinte 2008
- Societatea Nationala de Morfologie Normală si Patologică, membra din 2004, Vicepresedinte a filialei Arad din 2009
- Association of Environmental Health and Protection of DKMT Euroregion, membra din 2007
- Asociatia pentru cercetare multidisciplinară din zona de vest a Romaniei (ACM-V ROMANIA), membru fondator 2008

**Membra in colectivul editorial al urmatoarelor reviste indexate BDI/CNCSIS B+:**

- Studia Universitatis “Vasile Goldis”, Life Science Series, ISSN: 1584-2363 (CNCSIS B+) (<http://www.studiauniversitatis.ro/v15/editorial-board>)
- Analele Societatii Nationale de Biologie Celulara, ISSN: 1583-6258 (CNCSIS B+) <http://www.analelesnbc.ro/advisoryboard.html>

**Membra in comisii internationale:**

**Membra in Comitetul de Management al actiunii COST TD0901 “Hypoxia sensing, signaling and adaptation”** supported by the EU RTD Framework Programme, 2009-2013 (starting date: 16.11.2009; end date: 15.11.2013) <http://hypoxianet.com>

## Lista publicații (selecție 2010-2016):

### Capitole cărți

**Hermenean A**, Dinescu S, Ionita M, Costache M, The Impact of Graphene Oxides on Bone Regeneration Therapies in: "Advanced Techniques in Bone Regeneration", book edited by Alessandro Rozim Zorzi and Joao Batista de Miranda, Ed. InTech, 2016 ISBN 978-953-51-2539-6, Print ISBN 978-953-51-2538-9, 2016

**Hermenean A**, Ardelean A, Targeting the cytoskeleton with plant bioactive compounds in cancer therapy, in: "Cytoskeleton: Structure, Dynamics, Function and Disease", book edited by Jose C. Jimenez-Lopez. Intech Publ. ISBN 978-953-51-4898-2, 2016

### I. Articole în reviste ISI în calitate de autor principal

1. **Hermenean A**, Smeu C, Gharbia S, Krizbai IA, Ardelean A. 2016. Plant-Derived Biomolecules and Drug Delivery Systems in the Treatment of Liver and Kidney Diseases. *Current Pharmaceutical Design*, 22(35): 5415-5441, IF=3,052
2. Horge M, Craciun C, Tripon S, Giulei D, Jompan A, **Hermenean A\***, C. Rosioru. 2016. Moderate physical activity improves rat bone ultrastructure in experimental osteoporosis, *Acta Endocrinologica (Buc)*, vol. XII, no. 4, p. 392-400
3. **Hermenean A**, Mariașiu T, Navaro-González I, Josefina Vegara-Meseguer, Miușescu E, Chakraborty S, Pérez-Sánchez H. 2016. Hepatoprotective Activity of Chrysin is Mediated by Inhibition of TNF- $\alpha$ : in Chemically Induced Acute Liver Injury: In Vivo Study and Molecular Modelling, *Experimental and Therapeutic Medicine*, IF=1,269, in press
4. Zaulet M, Kevorkian S, Dinescu S, Cotoraci C, Suci M, Herman H, Buburuzan L, Badulescu L, Ardelean A, **Hermenean A**, Protective effects of silymarin against Bisphenol A-induced hepatotoxicity in mouse liver, *Experimental and Therapeutic Medicine*, In Press, IF=1,269
5. Folk A, Cotoraci C, Balta C, Suci M, Herman H, Boldura OM, Dinescu S, Paiusan L, Ardelean A, **Hermenean A**, Evaluation of Hepatotoxicity with Treatment Doses of Flucytosine and Amphotericin B for Invasive Fungal Infections, *BioMed Research International*, Article ID 5398730, IF=1,579
6. Ivan A, Herman H, Balta C, Hadaruga DI, Mihali CV, Ardelean A, **Hermenean A**, Berberis vulgaris extract/ $\beta$ -cyclodextrin complex increases protection of hepatic cells via suppression of apoptosis and lipogenesis pathways, *Experimental and Therapeutic Medicine*, In Press, IF=1,269
7. Herman H, Onita B, Ardelean G, Ardelean DP, Craciun C, Ardelean A, **Hermenean A**. 2016. Ultrastructural alterations, DNA damage and activation of repair mechanism in liver and kidney of *Leuciscus cephalus (L.)* exposed to heavy metals, *Fresenius Environmental Bulletin*, 5(6): 1920-1926, IF=0,378
8. Radu (Balas) M, Din (Popescu) IM, **Hermenean A\***, Cinteza OL, Burlacu R, Ardelean A, Dinischiotu A. 2015. Exposure to Iron Oxide Nanoparticles Coated with Phospholipid-Based Polymeric Micelles Induces Biochemical and Histopathological Pulmonary Changes in Mice, *International Journal of Molecular Sciences*, 16, 29417–29435; doi:10.3390/ijms161226173, IF=2.862
9. Balta C, Herman H, Boldura O.M., Gasca I., Rosu M, Ardelean A, **Hermenean A**. 2015. Chrysin attenuates liver fibrosis and hepatic stellate cell activation through TGF-b/Smad signaling pathway, *Chemico-Biological Interactions* 240 (2015) 94-101, IF=2.577
10. Anghel N., Cotoraci C., Ivan A., Suci M., Herman H., Balta C., Nicolescu L., Olariu T., Galajda Z., Ardelean A., **Hermenean A**. 2015. Chrysin attenuates cardiomyocyte apoptosis and loss of intermediate filaments in a mouse model of mitoxantrone cardiotoxicity, *Histology and Histopathology*, 30 (12), 1465-1475,

IF=2,236

11. **Hermenean A.**, Damache G., Albu P., Ardelean A., Ardelean G., Ardelean D.P., Horge M., Nagy N., Braun M., Zsuga M., Kéki S, Costache M., Dinischiotu A. 2015. Histopathological alterations and oxidative stress in liver and kidney of *Leuciscus cephalus* following exposure to heavy metals in the Tur River, North Western Romania, *Ecotoxicology and Environmental Safety*, 119: 198–205, IF=2,482

12. **Hermenean A.**, Stan M., Ardelean A., Pilat L., Mihali C.V., Popescu C., Nagy L., Deák G., Zsuga M., Kéki S., Bácskay I., Fenyvesi F., Costache M., Dinischiotu A., Vecsernyés M. 2015. Antioxidant and hepatoprotective activity of milk thistle (*Silybum marianum* L. Gaertn.) seed oil, *Open Life Science*, 10: 147–158, IF= 0,633

13. Sasu A., Herman H., Mariasiu T., Rosu M., Balta C., Anghel N., Miutescu E., Cotoraci C., **Hermenean A.** 2015. Protective effects of silymarin on epirubicin - induced mucosal barrier injury of the gastrointestinal tract, *Drug an Chemical Toxicology*, 38(4): 442-451, IF= 1,098

14. **Hermenean A.**, Ardelean A., Stan M., Hadaruga N., Mihali C.V., Costache M., Dinischiotu A. 2014. Antioxidant and Hepatoprotective Effects of Naringenin and Its b-Cyclodextrin Formulation in Mice Intoxicated with Carbon Tetrachloride: A Comparative Study, *Journal of Medicinal Food*, 17(6):670-7, IF= 1,699

15. Dinescu S., Ionita M., Pandele A.M., Galateanu B., Iovu H., Ardelean A., Costache M., **Hermenean A.** 2014. In vitro cytocompatibility evaluation of chitosan/graphene oxide 3D scaffold composites designed for bone tissue engineering, *Bio-Medical Materials and Engineering*, 24: 2249–2256, IF=0.847

16. **Hermenean A.**, Ardelean A., Stan M., Herman H., Mihali C.V., Costache M., Dinischiotu A. 2013. Protective effects of naringenin on carbon tetrachloride-induced acute nephrotoxicity in mouse kidney, *Chemico-Biological Interactions*, 205 (2): 138-147, IF=2,982

17. **Hermenean A.**, Popescu C., Ardelean A., Stan M., Hadaruga N., Mihali C.V., Costache M., Dinischiotu A. 2012. Hepatoprotective Effect of *Berberis vulgaris* L.extract/beta-cyclodextrin on carbon tetrachloride – induced acute toxicity in mice, *International Journal of Molecular Sciences*, 13, 9014-934, IF= 2,339.

## II. Articole în reviste ISI în calitate de coautor

1. Vashisht D, Pandey A, **Hermenean A**, Yáñez-Gascón MJ, Pérez-Sánchez H, Kumar KJ. 2016. Effect of dry heating and ionic gum on the physicochemical and release properties of starch from *Dioscorea*. *Int J Biol Macromol*. 18(95):557-563, IF=3,13

2. Mihaela Balas, Sabrina Constanda, Adriana Duma-Voiculescu, Mariana Prodana, **Anca Hermenean**, Sevinci Pop, Ioana Demetrescu, Anca Dinischiotu. 2016. Fabrication and toxicity characterization of hybrid material based on oxidized and aminated MWCNT loaded with carboplatin, *Toxicology in Vitro*, 37: 189-200, IF=2,903.

3. Nyúl-Tóth Á, Suciu M, Molnár J, Fazakas C, Haskó J, Herman H, Farkas AE, Kaszaki J, **Hermenean A**, Wilhelm I, Krizbai IA. 2016. Differences in the molecular structure of the blood-brain barrier in the cerebral cortex and white matter: an in silico, in vitro and ex vivo study. *American Journal of physiology. Heart and circulatory physiology*. 310 (11): H1702-14. IF=3.838

4. Petrache Voicu S, Dinu D , Sima C , **Hermenean A** , Ardelean A, Codrici E , Stan M, Zarnescu O, Dinischiotu A. 2015. Silica Nanoparticles Induce Oxidative Stress and Autophagy but Not Apoptosis in the MRC-5 Cell Line, *International Journal of Molecular Sciences*, 16, 29398–29416; doi:10.3390/ijms161226171, IF=2.862

5. Radu M., Dinu D., Sima C., Burlacu R., **Hermenean A.**, Ardelean A., Dinischiotu A. 2015. Magnetite nanoparticles induced adaptive mechanisms counteract cell death in human pulmonary fibroblasts, *Toxicology in Vitro*, vol. 29, 1492-1502, IF=2,903.

6. Fehér P, Ujhelyi, Vecsernyés M, Fenyvesi F, Damache G, Ardelean A, Costache M, Dinischiotu A., **Hermenean A.**, Bácskay I. 2015. Hepatoprotective effects of a self-micro emulsifying drug delivery system

containing *Silybum marianum* native seed oil against experimentally induced liver injury, *Pharmazie* 70: 1–8, IF=1,052

7. Popescu I.M, Cinteza L.O., **Hermenean A.**, Dinischiotu A. 2015. In vivo exposure of mice spleen to magnetite micelles; an oxidative stress and structural approach, *Digest Journal of Nanomaterials and Biostructures*, Vol. 10, No. 3, p. 871 – 881, IF=0,945

8. Galateanu B., Bunea M.C., Stanescu P., Vasile E., Casarica A., Jovu H., **Hermenean A.**, Zaharia C., Costache M. 2015. In Vitro Studies of Bacterial Cellulose and Magnetic Nanoparticles Smart Nanocomposites for Efficient Chronic Wounds Healing, *Stem Cells International*, Article ID 195096, 1-10, IF=2,813

9. Dinescu S., Galateanu B., Radu E., **Hermenean A.**, Lungu A., Stancu I.C., Jianu D., Tumber T., Costache M. 2015. A 3D porous gelatin-alginate-based-IPNs acts as an efficient promoter of chondrogenesis from human adipose-derived stem cells, *Stem Cells International*, article ID 252909, 17 pages, IF=2.806

10. Ionita M., Vasile E., Crica L.E., Voicu S.I., Pandele A.M., Dinescu S., Predoiu L., Galateanu B., **Hermenean A.**, Costache M. 2014. Synthesis, characterization and in vitro studies of polysulfone /graphene oxide composite membranes, *Composites: Part B*, vol. 72, 108-115, 2015, IF: 2,602

11. Stan M.S., Memet I., Sima C., Popescu T., Teodorescu V.S., **Hermenean A.**, Dinischiotu A. 2014. Si/SiO<sub>2</sub> quantum dots cause cytotoxicity in lung cells through redox homeostasis imbalance. *Chemico-Biological Interactions*, 220: 102–115, IF=2,982

12. Haskó J., Fazakas C., Molnár J., Nyúl-Tóth A., Herman H., **Hermenean A.**, Wilhelm I., Persidsky Y., Krizbai I. 2014. CB2 Receptor Activation Inhibits Melanoma Cell Transmigration through the Blood-Brain Barrier, *International Journal of Molecular Sciences*, 15: 8063-8074, IF= 2,339

13. Dinescu S., Galateanu B., Albu M., Lungu A., Radu E., **Hermenean A.**, Costache M. 2013. Biocompatibility Assessment of Novel Collagen-Sericin Scaffolds Improved with Hyaluronic Acid and Chondroitin Sulfate for Cartilage Regeneration, *Journal of Biomedicine and Biotechnology* (BioMed Research International), ID 598056, 11 pages, IF=2,706

14. Ciobanu C.S., Iconaru S.L., Pasuk I., Vasile B.S., Lupu A.R., **Hermenean A.**, Dinischiotu A., Predoi D. 2013. Structural properties of silver doped hydroxyapatite and their biocompatibility, *Materials Science and Engineering: C*, 33 (3):1395-1402, IF=2,736

15. Dinu D., Bodea G.O., Ceapa C.D., Munteanu M.C., Israel Roming F., **Hermenean A.**, Costache M., Zărnescu O., Dinischiotu A. 2011. Adapted response of the antioxidant defense system to oxidative stress induced by deoxynivalenol in Hek-293 cells, *Toxicol*, 57 (7): 1023-1024, IF=2,581

16. Radu M., Munteanu M.C., Petrache S., Serban A.I., Dinu D., **Hermenean A.**, Costache M., Dinischiotu A. 2010. Depletion of intracellular glutathione and increase of lipid peroxidation mediate cytotoxicity of hematite nanoparticles in MRC-5 cells, *Acta Biochimica Polonica*, 57 (3): 355-260, IF=1,389

17. Munteanu M.C., Radu M., **Hermenean A.**, Sima C., Dinu D., Costache M., Grigoriu G., Dinischiotu A. 2010. Antioxidative response induced by SiO<sub>2</sub> nanoparticles in MRC5 cell line, *Romanian Biotechnological Letters*, 15 (1): 5000-5007, IF=0.343

18. Kevorkian S., Gorgescu S., Manea M.A., Zaulet M., **Hermenean A.**, Costache M. 2010. Genetic diversity using microsatellite markers in four Romanian autochthonous sheep breeds, *Romanian Biotechnological Letters*, 15(1): 5059-5065, IF=0.343

19. Xuan T.P., Georgescu S.E., Manea M.A., **Hermenean A.** 2010. Costache M., Genetic diversity and phylogenetic relationships of Romanian cattle breeds inferred from cytochrome b gene partial sequences, *Romanian Biotechnological Letters*, 15 (2): 5154-5158, IF=0.343

20. Xuan T.P, Georgescu S.E., Manea M.A., **Hermenean A.**, Dinischiotu A., Costache M., Phylogenetic relationships of Romanian cattle to other cattle populations determined using mitochondrial DNA D-Loop sequence variation, *Romanian Biotechnological Letters*, Vol.15, nr.3, 5288-5293,2010, IF=0.343