

Curriculum Vitae

TABARAN ALEXANDRU-FLAVIU



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- <https://binanomyc.wixsite.com/pn3-research-grant>
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Date of birth: 06/09/1983 | Gender/Marital status: Male/Married

DVM, Ph.D., MSc, Habil., Diplomate ACVP (Anatomic Pathology) and American Board of Toxicology (ABT)

PROFESSIONAL EXPERIENCE:

► 1. Teaching	2021–Present	Professor (Habil.) <ul style="list-style-type: none">• Faculty of Veterinary Medicine, USAMV Cluj-Napoca• Ph.D. advisor (2021, USAMV Cluj-Napoca)
	2013-2021	Teaching Assistant, Lecturer, and Associate Professor <ul style="list-style-type: none">• Faculty of Veterinary Medicine, USAMV Cluj-Napoca, Department of Pathological Anatomy
► 2. Research	2023-Present	Veterinary Pathologist (Experimental and Toxicological Pathology) <ul style="list-style-type: none">• iHisto INC, Salem, Massachusetts, USA
	2017-2019	Postdoctoral Researcher (Comparative Pathology) <ul style="list-style-type: none">• University of Minnesota, Masonic Cancer Center (Comparative Pathology Shared Resources), SUA
► 3. Diagnosis	2022-Present	Assistant Professor <ul style="list-style-type: none">• University of Wyoming, Wyoming State Veterinary Laboratory, SUA
	2021-2022	Veterinary pathologist <ul style="list-style-type: none">• University of Minnesota, USA (biopsy service provider)
► 4. Administrative	2022-Present	Department Head, Department III, Clinical and Paraclinical Sciences, USAMV Cluj-Napoca

KEY RESEARCH AND DIAGNOSTIC SKILLS

Histopathological diagnosis: biopsies and necropsies in multiple species (including neoplastic, cardiovascular, hepatic, and central nervous system lesions, as well as lesions of toxic etiology). Toxicological and experimental pathology in rodents: involvement in study design, lesion scoring, interpretation of histopathological data, and drafting of study reports. Advanced microscopy: laser scanning confocal microscopy (image processing, fluorescence quantification, morphometry) and dark-field hyperspectral imaging (CytoViva / DF-HSI).

SCIENTIFIC INFORMATION

PROFESSIONAL ASSOCIATIONS	<ul style="list-style-type: none">• American College of Veterinary Pathologists (ACVP)• American Board of Toxicology• European Society of Toxicologic Pathology (ESTP)• European Society of Veterinary Pathology (ESVP)
MEMBER: ADVISORY BOARDS	<ul style="list-style-type: none">• National Council for the Accreditation of Academic Degrees, Diplomas, and Certificates (CNATDCU)

PUBLICATIONS	<ul style="list-style-type: none"> ● Scientific publications – Scientific articles in ISI Web of Science-indexed journals: 130 (see Appendix). ● Books: ● Lead author: 3 textbooks ● Lead author of three chapters (published in Romanian) ● Co-author of two textbooks
THE IMPACT OF RESEARCH	<ul style="list-style-type: none"> ● 5010 citations (Google Scholar); 2 884 citations (Thomson Reuters - Web of Science) ● Indice h: 31 (Google Scholar); 28 (Web of Science) ● i10 : 67
SCIENTIFIC REVIEWER	<p>Emerging Infectious Disease, JAVMA, Journal of Medicinal Food, World Journal of Clinical Cases, International Journal of Nanomedicine, Mini-Reviews in Medicinal Chemistry, Pathology and Laboratory Medicine International, World Journal of Stem Cells, International Journal Of General Medicine, etc.</p>
RESEARCH PROJECT EVALUATOR (GRANT REVIEWER)	<ol style="list-style-type: none"> 1.National Science Centre, Poland (NCN), Life Sciences (Diagnostic tools, therapies, and public health)(2019-present). 2.National Research and Development Agency (CHILE) 3.Croatian Science Foundation
EDITOR	<p>Associate Editor: Frontiers in Veterinary Medicine, Applied Sciences, Sensors, Regulatory Mechanisms in Biosystems, World Journal of Biological Chemistry, Anti-Infective Agents, Theoretical and Applied Veterinary Medicine, Animal Biology & Animal Husbandry - International Journal of the Bioflux Society, Porcine Research.</p>
PATENTS	<ul style="list-style-type: none"> ● RO132630. Authors: Agoston Coldea Lucia, Mocan Teodora, ... Tăbăran Flaviu, Matea Cristian. ● RO132021. Authors: Gyorke Adriana, Pop Loredana Maria, Militaru Dumitru, ... Tăbăran Flaviu, Cozma Vasile. ● RO131845. Authors: Mocan Teodora, ... Tăbăran Flaviu. ● RO130792. Authors: Mocan Lucian-Constantin, Matea Cristian-Tudor, Tăbăran Alexandru-Flaviu. ● RO130790. Authors: Mocan Teodora, Matea Cristian-Tudor, ... Tăbăran Flaviu.
RESEARCH PROJECTS	<ul style="list-style-type: none"> ● Director: PN-III-P1-1.1-PD-2016-1840: "Mannan-Coated Gold-Silver Alloy Nanoparticles for Delivery to Immune Cells: New Approaches to Targeted Therapy for Tuberculosis" ● Principal investigator- PNII PCCA(134/2014) "Treatment of degenerative retinal diseases using nanotechnology." ● Principal investigator-Award: Interstellar initiative projects (Finanțat de New York Academy of Science and the Japan Agency for Medical Research and Development) <p>Membru ► 21 proiecte naționale de cercetare (finanțat de Ministerul Educației Naționale)</p>
INTERNATIONAL AND NATIONAL AWARDS	<ul style="list-style-type: none"> ● "Danubius Young Researcher Award" by the Austrian Federal Ministry for Science, Research and Economy BMWFV); Zagreb 2017; ● "Best Ph.D. Thesis in Toxicological Pathology" by the European Society of Toxicologic Pathology (ESTP), Berlin,2014; ● 32 National Awards: Recognition of research achievements (publications and patents), UEFISCDI, Ministry of Education and Research ● USAMV Rector's Awards for Research (3 awards)

ANNEXES: LIST OF PUBLICATIONS AND RESEARCH PROJECTS

Textbooks and practical workbooks

1. Tăbăran Alexandru- Flaviu, Cătoi C., Gal A. Basics of Necropsy and Main Diseases in Horses and Ruminants (Manual didactic), 2019, Ed. Academic Press, ISBN 978-973-744-731-9.
2. Adrian Florin GAL, Cornel CĂTOI, Flaviu TĂBĂRAN, Marian TAULESCU Anatomie Patologică Veterinară: Sistemul Urinar, Sistemul Genital, Sistemul Endocrin, Sistemul Osteomuscular, Piele, (Manual didactic), Academic Press, Cluj-Napoca, 2017, e-ISBN 978-973-744- 587-2.
3. Tăbăran Alexandru-Flaviu, Cătoi C., Autopsie et Médecine Légale 1, (Manuel didactique), Editura Academic Press, Cluj-Napoca, 2020, e-ISBN 978-973-744-846-0.
4. Adrian Florin Gal, Cornel Cătoi, Marian Taulescu, Alexandru-Flaviu TĂBĂRAN, Anatomie Patologică: Manual pentru Activități Practice, Ed. Academic Press Cluj-Napoca, 2017, e-ISBN 978- 973-744-588-6.
5. Alexandru-Flaviu TĂBĂRAN, Autopsie et médecine légale : Guide de travaux pratiques, (îndrumător de laborator), 2020, Ed. Academic Press Cluj-Napoca, 2020, e-ISBN 978-973-744- 844-6.

Books and book chapters

1. Teodora Pop, Teodora Mocan, Lucia Agoston, Flaviu A. Tabaran, Cristian Matea, Ofelia Mosteanu, Cornel Iancu, Lucian Mocan: Nanotherapeutic Strategies for the Selective Ablation of Human Liver Cancer Cells [Chapter n: Molecular and Cellular Techniques with Applications in Nanomedicine], 2016, Editura: Science Publishing Group, New York, ISBN: 978-1-940366-05-0
2. Lucian Mocan, Teodora Mocan, Cristian T. Matea, Flaviu A. Tabaran, Lucia Agoston, Ofelia Mosteanu, Teodora Pop , Dana Bartos, Cornel Iancu: Gold Nanoparticles for Multimodal Imaging in Nanomedicine [Chapter in: mMolecular and Cellular Techniques with Applications in Nanomedicine], 2016, Editura: Science Publishing Group, New York, ISBN: 978-1-940366-05-0
3. Tăbăran Alexandru- Flaviu: Toxicitatea și Aplicațiile Nanotuburilor de Carbon în Terapia Cancerului, Editura Academic Press, 2019, ISBN 978-973- 744-727-2
4. Cătoi C., Taulescu A., Gal A., Bolfă P., Tăbăran F., Nagy A., Borza G., Vidrighinescu R., Irimie A., Cora R: Technici de Anatomie Patologică Veterinară, Editura Academic Press, 2014, ISBN 978- 973-744-346-5
5. Iosif Vasiiu, Roman Dąbrowski, Flaviu Alexandru Tăbăran, Raul Alexandru Pop, Flore Chirilă, Gheorghe Florinel Brudașcă, Asta Tvarijonavičiute and Nicodim Iosif Fiț: How Reliable Are Laboratory Test When Diagnosing Bitch Mastitis? In Veterinary medicine and pharmaceuticals. Editura: IntechOpen, 2019 (DOI: 10.5772/intechopen.86151), ISBN: 978-1-78985-440-4; Print ISBN: 978-1-78985-439-8; eBook (PDF) ISBN: 978- 1-83880- 062-8
6. Teodora Mocan, Flaviu A. Tabaran, et al. Development of an in Vitro Anticancer Vaccine Platform Using Gold Nanoparticles Immunoconjugates [Chapter in: Molecular and Cellular Techniques with Applications in Nanomedicine], 2016, Science Publishing Group, New York, ISBN: 978-1-940366-05-0
7. Lucian Mocan , Lucia Agoston-Coldea, Teodora Mocan, Cristian T. Matea, Flaviu A. Tabaran, Teodora Pop , Ofelia Mosteanu, Cornel Iancu: Experimental Nanophotothermolysis of Human Pancreatic Cancer Cells Using
8. Gold Nanoparticles [Chapter in: Molecular and Cellular Techniques with Applications in Nanomedicine] 2016, Science Publishing Group, New York, ISBN: 978-1- 940366-05-0.

Full-length articles published in ISI Web of Science-indexed journals with an impact factor

1. Catoi S, Pop R, Bel LV, Melega I, Tabaran AF. First report of an iridophoroma in a Tegu (*Salvator merianae*). *BMC Veterinary Research*. 2026 Dec;22(1):198.
2. Mîndruț, S.G., Pop, C., Mârza, S.M., Hoța, A.T., Tăbăran, F.A., Sall, I.M., Uifălean, A., Mogoșan, E.L., Voștinariu, O. and Mogoșan, C.I., 2026. Comparative Analysis of Streptozotocin, Streptozotocin–Nicotinamide and Alloxan-Based Diabetes Models in Female Wistar Rats. *Methods and Protocols*, 9(3), p.72.
3. Semzenisi, Ecaterina, Romelia Pop, Andrada Negoescu, Lucia Bel, Alexandra Creț, Irina Constantin, Claudiu-Nicusor Ionica, Sorana Catoi, Ibrahima Mamadou Sall, and Alexandu-Flaviu Tăbăran. "Adrenal gland adenoma with myelolipoma in a canine patient: a rare case report and diagnostic insights." *Frontiers in Veterinary Science* 13 (2026): 1780830.
4. Oren, Stephanie, Tabitha Viner, and Flaviu A. Tabaran. "Femoral arterial embolism of an airgun pellet in a dog." *Journal of Veterinary Diagnostic Investigation* (2026): 10406387251395295.
5. Sall, Ibrahima Mamadou, Meriem Aziez, Dragoș Hodor, Alina Diana Hașăș, Mara-Georgiana Haralambie, Semzenisi Ecaterina, Alexia-Teodora Hoța, and Alexandru-Flaviu Tăbăran. "Therapeutic Potential of Kinkeliba (*Combretum micranthum* G. Don) Ethanolic Extract in Chronic DSS-Induced Colitis." *Molecules* (2026).
6. Sall IM, Vodnar DC, Socaci SA, Fărcaș AC, Hasas AD, Tabaran AF, Pop CR. Ethanolic Extract of Kinkeliba (*Combretum micranthum*), Rich in Phenolic Compounds Mitigates DSS-Induced Ulcerative Colitis in C57BL/6 Mice via Antioxidation and Microbiota Regulation. *International Journal of Molecular Sciences*. 2025. doi:10.3390/IJMS262311299.
7. Cârștolovean AS, Negoescu A, Negoescu A, Czyszter LT, Carstolovean A-S, Negoescu A, Cadar D, Imam B, Bilal M, Mihalca AD. Mortality associated with *Dictyocaulus cervi* in farmed red deer (*Cervus elaphus*) in Romania. *Parasitology Research*. 2026. doi:10.1007/S00436-026-08641-1.
8. Constantin I, Pop R, Enache A, Cofaru A, Cerbu M, Hotea I, Tabaran F-A. Glyco-Architectural Remodelling of the Feline Heart: Age- and HCM-Related Insights from Lectin Histochemistry. *Life*. 2025. doi:10.3390/LIFE16010020.
9. Cerbu M, Constantin I, Cofaru A, Hotea I, Tabaran A-F. Case Report: a newly described form of fixed subaortic stenosis in a feline patient. *Frontiers in Veterinary Science*. 2025. doi:10.3389/FVETS.2025.1672336.
10. Ionica C-N, Pop R, Ciont C, Mureșan C, Ganea M, Stefancu A, Oniga O, Macri A. Cellular Uptake and Tissue Retention of Microplastics in Black Soldier Fly Larvae. *Insects*. 2025. doi:10.3390/INSECTS161111169.
11. Mănescu V, Antoniac A, Bită AI, Barbilian A, Niculescu M, Miculescu F, Rădulescu M, Tabaran A-F, Lungu M, Ciocan LT, Manole M. Suitability of Mg-Nd and Mg-Zn Alloys to Obtain Biodegradable Structures for Bone Defects. *Journal of Functional Biomaterials*. 2025. doi:10.3390/JFB16110423.
12. Socaciu MA, Moldovan R, Clichici S, Leontescu C, Muntean DM. Delivery and Metabolic Fate of Doxorubicin and Betulin Nanoformulations In Vivo: A Metabolomics Approach. *Metabolites*. 2025. doi:10.3390/METABO15110723.
13. Ciont C, Mesaros A, Pop O, Licarete E, Moldovan B, Socaciu SA, Pop CR, Barbu-Tudoran L, Vodnar DC. Comparative Analysis of Biogenic and Chemically Synthesized Iron Oxide Nanoparticles and Interaction with Human Intestinal Epithelial Cells. *BioNanoScience*. 2025. doi:10.1007/S12668-025-02217-6.
14. Labé C, Chehadeh A, Saba CF, Boudreaux B, Tarigo J, McCleary-Wheeler AL, Ruple A, Thamm DH, Brents JC, Makielski KM. Extended Survival in a Dog with Primary Bone Hemangiosarcoma Following Treatment with Neoadjuvant Oncolytic Virotherapy and Standard of Care. *Veterinary Sciences*. 2025. doi:10.3390/VETSCI12100921.
15. Ionica C-N, Pop R, Ciont C, Mureșan C, Ganea M, Stefancu A, Oniga O, Macri A. Exploring the Intersection of Microplastics and Black Soldier Fly Larvae: A Comprehensive Review. *Insects*. 2025. doi:10.3390/INSECTS16090913.

16. Gal AF, Rugină D, Login C, Pestean C, Filip A, Andrei SM. Limited Chemopreventive Effects of Oral Administration of Polyphenol-60 from Green Tea in the MNU-Induced Rat Mammary Tumor Model. *Antioxidants*. 2025. doi:10.3390/ANTIOX14081009.
17. Pop R, Nistor M, Hîntă E, Zaharie F, Rugină D, Porav AS, Socaciu MA. Distinct In Vitro Effects of Liposomal and Nanostructured Lipid Nanoformulations with Entrapped Acidic and Neutral Doxorubicin on B16-F10 Melanoma and Walker 256 Carcinoma Cells. *Pharmaceutics*. 2025. doi:10.3390/PHARMACEUTICS17070904.
18. Zdrehus RS, Mocan T, Porfire A, Licarete E, Soritau O, Rugină D, Tăbăran AF, Mocan L. CEA-Functionalized Gold Nanoparticles as a Nanovaccine Platform: In Vitro Evaluation of Cytocompatibility, Cellular Uptake, and Antigen Processing. *Vaccines*. 2025. doi:10.3390/VACCINES13070668.
19. Sall IM, Hasas AD, Pop R, Socaciu SA, Fărcaș AC, Tabaran AF, Pop CR, Nistor M, Vodnar DC. Acute and Subacute Oral Toxicity Assessment of Kinkeliba (*Combretum micranthum* G. Don) Ethanolic Extract in BALB/c Mice. *Plants*. 2025. doi:10.3390/PLANTS14121776.
20. Popa RP, Tăbăran AF. A Systematic Review of the Toxicokinetics of Micro- and Nanoplastics in Mammals Following Digestive Exposure. *Applied Sciences*. 2025. doi:10.3390/APP15116135.
21. Constantin I, Cofaru A, Cerbu M, Hotea I, Tabaran F-A. Concurrent Persistent Truncus Arteriosus and Left Atrial Diverticulum in a Domestic Short-Haired Cat. *Animals*. 2025. doi:10.3390/ANI15060899.
22. Bratfelan DO, Tabaran A, Oana L, Mihaiu M, Tabaran F-A, Mihaiu R, Oprean L. Assessment of Microbiological Contamination and Prevalence of Pathogenic Strains in Cattle Carcasses from Romanian Slaughterhouses. *Pathogens*. 2025. doi:10.3390/PATHOGENS14030248.
23. Pop R, Tabaran A-F, Pestean C, Ober CA, Mureșan C. Surgical management of ossifying fibroma in a 9-year-old Hungarian Vizsla: a case report and review of the literature. *Frontiers in Veterinary Science*. 2025. doi:10.3389/FVETS.2024.1497077.
24. Sall IM, Pop R, Fărcaș AC, Socaciu SA, Hasas AD, Tabaran AF, Pop CR, Muntean D, Vodnar DC. Contribution to the ethnobotanical study and uses in the traditional pharmacopoeia of Kinkéliba (*Combretum micranthum* G. Don) in Mauritania. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 2025. doi:10.15835/NBHA53214486.
25. Pivariu D, Oros AN, Tabaran AF, Taulescu M, Mihaiu M, Nagy AL. Chronic Copper Bilysinate Poisoning in Five Texel Sheep: A Case Report. *Life*. 2024. doi:10.3390/LIFE14111363.
26. Semzenisi Ecaterina, Dragos Hodor, Ibrahimia Mamadou Sall, Corina Toma, Alexandru-Flaviu Tăbăran. Comparative exploration of the carotid body in domestic animals: morphology, physiology, histology, and pathology. *Frontiers in Veterinary Science*. 2024. doi:10.3389/FVETS.2024.1409701.
27. Ecaterina Semzenisi, Roxana Popa, Corina Toma, Valentin-Adrian Bălțeanu, Iuliu Calin Scurtu, Romelia Pop, Alexandru-Flaviu Tăbăran. Multiple Endocrine Neoplasia with Multiple PGLs in Two Boxer Dogs: Morphological Features, Immunohistochemical Profile and SDHD Gene Mutation Screening. *Veterinary Sciences*. 2024. doi:10.3390/vetsci11110586.
28. Dalma Pivariu, Adrian Nechita Oros, Alexandru Tabaran, Francesca Caloni, Pompei Bolfa, Andras-Laszlo Nagy. Chronic Copper Bilysinate Poisoning in Five Texel Sheep: A Case Report. *Life*. 2024. doi:10.3390/life14111363.
29. Alexandra Popa, Lia-Oxana Usatiuc, Iuliu Calin Scurtu, Raluca Murariu, Alexandra Cofaru, Romelia Pop, Flaviu Alexandru Tabaran, Luciana Madalina Gherman, Dan Valean, Alexandru Cristian Bolundut, Rares Ilie Orzan, Ximena Maria Muresan, Andreea Georgiana Morohoschi, Sanda Andrei, Cecilia Lazea, Lucia Agoston-Coldea. Assessing the Anti-Inflammatory and Antioxidant Activity of Mangiferin in Murine Model for Myocarditis: Perspectives and Challenges. *International Journal of Molecular Sciences*. 2024. doi:10.3390/ijms25189970.
30. Teodora Popa, Cosmin Petru Peștean, Irina Constantin, Alexandra Cofaru, Raluca Murariu, Flaviu-Alexandru Tăbăran, Iuliu Călin Scurtu. Left-to-Left Acquired Cardiac Shunt: Aorto-Left Atrial Fistula Due to Aortic Infective Endocarditis in a Dog. *Animals*. 2024. doi:10.3390/ani14172451.
31. Dalina Diana Zugravu, Stefan Lucian Popa, Andrei-Vasile Pop, Remus Moldovan, Alexandru Flaviu Tăbăran, Luminita David, Simona Valeria Clichici. Hepatic changes following a high-fat diet: effects of *Cornus mas* and gold nanoparticles phytoreduced with *Cornus mas* on oxidative stress, inflammation, and histological damage. *Medicine and Pharmacy Reports*. 2024. doi:10.15386/MPR-2775.

32. Michael Korenjak, N. Alpay Temiz, Stéphane Keita, Bérénice Chavanel, Claire Renard, Cécilia Sirand, Vincent Cahais, Tanguy Mayel, Karin R. Vevang, Foster C. Jacobs, Jiehong Guo, William E. Smith, Marissa K. Oram, Flaviu A. Tăbăran, Ozan Ahlat, Ingrid Cornax, M. Gerard O'Sullivan, Samrat Das, Shuvro P. Nandi, Yuhe Cheng, Ludmil B. Alexandrov, Silvia Balbo, Stephen S Hecht, Sergey Senkin, Francois Virard, Lisa A. Peterson, Jiri Zavadil. Human cancer genomes harbor the mutational signature of tobacco-specific nitrosamines NNN and NNK. *BioRxiv*. 2024. doi:10.1101/2024.06.28.600253.
33. Andreea Nedelcu, Teodora Mocan, Lavinia Ioana Sabau, Cristian Tudor Matea, Flaviu Tabaran, Teodora Pop, Cristian Delcea, Ofelia Mosteanu, Lucian Mocan. In vitro photothermal therapy of pancreatic cancer mediated by immunoglobulin G-functionalized silver nanoparticles. *Scientific Reports*. 2024. doi:10.1038/S41598-024-63142-4.
34. Romelia Pop, Stephanie Oren, Andrada Negoescu, Cornel Cătoi, Alexandru-Flaviu Tăbăran. Case report: The first description of a thyroglossal duct cyst in a hen (*Gallus gallus domesticus*). *Frontiers in Veterinary Science*. 2024. doi:10.3389/FVETS.2024.1388152.
35. Sorin Marian Mârza, Adela Maria Dăescu, Robert Cristian Purdoi, Mădălina Dragomir, Mariana Tătaru, Iulia Melega, Andras-Laszlo Nagy, Adrian Gal, Flaviu Tăbăran, Sidonia Bogdan, Mirela Moldovan, Eموke Pall, Camelia Munteanu, Klara Magyari, Ionel Papuc. Healing of Skin Wounds in Rats Using Creams Based on *Symphytum Officinale* Extract. *International Journal of Molecular Sciences*. 2024. doi:10.3390/IJMS25063099.
36. Kelly M. Makielski, Aaron L. Sarver, Michael S. Henson, Kathleen M. Stuebner, Antonella Borgatti, Lukkana Suksanpaisan, Caitlin Preusser, Alexandru-Flaviu Tabaran, Ingrid Cornax, M. Gerard O'Sullivan, Andrea Chehadeh, Donna Groschen, Kelly Bergsrud, Sara Pracht, Amber Winter, Lauren J. Mills, Marc D. Schwabenlander, Melissa Wolfe, Michael A. Farrar, Gary R. Cutter, Joseph S. Koopmeiners, Stephen J. Russell, Jaime F. Modiano, Shruthi Naik. Neoadjuvant systemic oncolytic vesicular stomatitis virus is safe and may enhance long-term survivorship in dogs with naturally occurring osteosarcoma. *Molecular Therapy - Oncolytics*. 2023. doi:10.1016/J.OMTO.2023.100736.
37. Octavia-Laura Moldovan, Camil-Eugen Vari, Amelia Tero-Vescan, Ovidiu Simion Cotoi, Iuliu Gabriel Cocuz, Flaviu Alexandru Tabaran, Romelia Pop, Ibolya Fülöp, Rafael Florin Chis, Ioana-Andreea Lungu, Aura Rusu. Potential Defence Mechanisms Triggered by Monosodium Glutamate Sub-Chronic Consumption in Two-Year-Old Wistar Rats. *Nutrients*. 2023. doi:10.3390/NU15204436.
38. Ibrahima Mamadou Sall, Tabaran Alexandru Flaviu. Plant and mammalian-derived extracellular vesicles: a new therapeutic approach for the future. *Frontiers in Bioengineering and Biotechnology*. 2023. doi:10.3389/FBIOE.2023.1215650.
39. Ioana Maria Porfire (Irimia), Alexandru Flaviu Tabaran, Madalina Luciana Gherman, Veronica Elena Trombitas, Silviu Albu. The Impact of Spray Cryotherapy on Lesion-Induced Osteitis in a New Murine Experimental Model. *Medicina*. 2023. doi:10.3390/MEDICINA59050897.
40. Ioana Baldea, Sorina Danescu, Flaviu Tabaran, Adriana Gabriela Filip, Rodica Mariana Ion, Diana Elena Olteanu, Alexandra Cristina Sevastre-Berghian, Roxana Maria Decea, Cristian Iacovita, Daniela Hanganu, Mihai Cenariu. Inhibition of Survival Mechanisms and Cell Death Induction in Melanoma Following Photodynamic Therapy Mediated by Meso-5,10,15,20-tetrakis-(4-hydroxyphenyl)-porphyrin. *Processes*. 2023. doi:10.3390/PR11030917.
41. Kelly M. Makielski, Aaron L. Sarver, Michael S. Henson, Kathleen M. Stuebner, Antonella Borgatti, Lukkana Suksanpaisan, Caitlin Preusser, Alexandru-Flaviu Tabaran, Ingrid Cornax, M. Gerard O'Sullivan, Andrea Chehadeh, Donna Groschen, Kelly Bergsrud, Sara Pracht, Amber Winter, Lauren J. Mills, Marc D. Schwabenlander, Melissa Wolfe, Michael A. Farrar, Gary R. Cutter, Joseph S. Koopmeiners, Stephen J. Russell, Jaime F. Modiano, Shruthi Naik. Neoadjuvant systemic oncolytic vesicular stomatitis virus is safe and may enhance long-term survivorship in dogs with naturally occurring osteosarcoma. *BioRxiv*. 2023. doi:10.1101/2023.04.16.533664.
42. Romelia Pop, Alexandru-Flaviu Tăbăran, Andrei Paul Ungur, Andrada Negoescu, Cornel Cătoi. Helicobacter Pylori-Induced Gastric Infections: From Pathogenesis to Novel Therapeutic Approaches Using Silver Nanoparticles. *Pharmaceutics*. 2022. doi:10.3390/PHARMACEUTICS14071463.
43. Irina Constantin, Alexandru Flaviu Tăbăran. Dissection Techniques and Histological Sampling of the Heart in Large Animal Models for Cardiovascular Diseases. *Journal of Visualized Experiments*. 2022. doi:10.3791/63809.

44. Alexandru-Flaviu Tabaran, Anibal G. Armien, G. Elizabeth Pluhar, M. Gerard O'Sullivan. Meningioma with rhabdoid features: Pathologic findings in dogs. *Veterinary Pathology*. 2022. doi:10.1177/03009858221100436.
45. Cecilia-Gabriella Danciu, Joshua Milgram, Ciprian Andrei Ober, Flaviu Alexandru Tăbăran, Helga Demény, Orit Chai. Coxofemoral luxation as a complication of localised tetanus in a cat. *Journal of Feline Medicine and Surgery Open Reports*. 2022. doi:10.1177/20551169221090889.
46. Romeo Popa, Magdalena Diaconu, Valentin Cirlig, Ciprian Marius Văruț, Daniel Cosmin Caragea, Răzvan Andrei Codea, Flaviu Alexandru Tabaran, Mara Aurori, Mihai Gafencu, Cristian Corneliu Georgescu. Combination of Pentoxifylline and Ginko Biloba Nephroprotective Effect in Animal Models with Vancomycin-Induced Nephrotoxicity. *Current Health Sciences Journal*. 2022. doi:10.12865/CHSJ.48.01.10.
47. Michael A. Harris, Huihui Kuang, Zachary Schneiderman, Maple L. Shiao, Andrew T. Crane, Matthew R. Chrostek, Alexandru-Flaviu Tăbăran, Thomas Pengo, Kevin Liaw, Beibei Xu, Lucy Lin, Clark C. Chen, M. Gerard O'Sullivan, Rangaramanujam M. Kannan, Walter C. Low, Efrosini Kokkoli. ssDNA nanotubes for selective targeting of glioblastoma and delivery of doxorubicin for enhanced survival. *Science Advances*. 2021. doi:10.1126/SCIADV.ABL5872.
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Patents

1. "Procedeu De Obținere A Unor Biocapsule Destinate Imunoprofilaxiei Adenocarcinomului De Colon, Ro132630 (A2); Ro132630 (B1), 2018-06-29; Autori: Agoston Vas Coldea Lucia, Mocan Teodora...Tabaran Flaviu, Matea Cristian. A61k9/48. A61k9/48. Ro20160000970
2. "Aditiv Furajer Pe Bază De Artemisia Annuă Varietatea Germană Hibrid A3, Pentru Profilaxia Coccidiozei La Puii De Carne". Ro132021 (A0), 2017-07-28. Autori: Gyorke Adriana, Pop Loredana Maria, Militaru Dumitru...Tăbăran Flaviu, Cozma Vasile. A23k10/30; Ro20160001017
3. "Procedeu De Obținere A Unui Produs Cu Aplicabilitate În Țintirea Celulelor Neoplazice În Cancerul De Colon Și Selectivizarea Efectului Fototermic, Ro131845 (A2); Ro131845 (B1), "2017-05-30. Autori: Mocan Teodora...Tabaran Flaviu [Ro]. A61k33/24. Ro20150000906
4. "Procedeu De Obținere A Unui Produs Nanostructurat Cu Aplicabilitate În Imunoprofilaxia Cancerului De Pancreas. Ro130792 (A2); Ro130792 (B1) "2015-12-30. Autori: Mocan Lucian-Constantin, Matea Cristian-Tudor, Tabaran Alexandru-Flaviu, G01n33/53; Ro20140000413
5. "Procedeu De Obținere A Unui Produs De Aplicabilitate În Prevenția Apariției Neoplaziilor Colonice. Ro130790 (A2); Ro130790 (B1), "2015-12-30. Autori: Mocan Teodora, Matea Cristian-Tudor... Tabaran Flaviu" G01n33/53 "Ro20140000407

LIST of Research Projects (Funded by the Romanian Government, Awarded Through a National Competition)

[Source: BrainMap—Executive Unit for the Financing of Higher Education, Research, Development, and Innovation (UEFISCDI)]

1. Project Manager: PN-III-P1-1.1-PD2016-1840 [Contract Nr: PD. 165/2018] ""Nanoparticule de Aur-Argint Funcționalizate cu Manan: O Nouă Abordare pentru Terapia Tintită a Celulelor Imune în Tuberculoză"" (BiNano-Myc); Suma contractată: 250.000 RON. Institutia de afiliere a directotului de proiect (Tabaran Alexandru-Flaviu):Institutul Regional De Gastroenterologie -Hepatologie Prof. Dr. Octavian Fodor Cluj-Napoca
2. USAMV Representative: PN-II-PT-PCCA-2013-4-1232 [Contract Nr.: 134/2014] - "Tratamentul cu celule stem în afecțiunile degenerative ale retinei cu ajutorul nanotehnologiei" (RETSTEM); Suma contractată de USAMV Cluj-Napoca: 250.000 RON. Institutia de afiliere a directotului de proiect (Conf. Dr. Simona Nicoară):Universitatea de Medicină și Farmacie „Iuliu Hațieganu” din Cluj-Napoca
3. PED2021, 2021, P 2 - SP 2.1 - Proiect experimental – demonstrativ, PN-III-P2-2.1-PED-2021-0073 Dezvoltarea de bionanosisteme active LASER pentru terapia mitocondrială selectivă a cancerului pancreatic.Development of laser-active bio-nanosystems for selective mitochondrial therapy of pancreatic cancer., Coordinator: INSTITUTUL REGIONAL DE GASTROENTEROLOGIE - HEPATOLOGIE PROF. DR. OCTAVIAN FODOR CLUJ-NAPOCA (RO). Director proiect: Cornel Iancu. 2022-06-29 2024-06-28.
4. PCE2020, 2020, P 4 - Proiecte de Cercetare Exploratorie, 2020, PN-III-P4-ID-PCE-2020-2126, Nanoparticule de oxid de fier transportate de probiotice - citotoxicitatea, biodisponibilitatea si influenta acestora asupra microflorei intestinale/Iron oxide nanoparticles transported by probiotics - cytotoxicity, bioavailability and their influence on intestinal microflora, Coordonator: UNIVERSITATEA DE STIINTE AGRICOLE SI MEDICINA VETERINARA CLUJ-NAPOCA (RO), Director proiect: Oana Lelia Pop , perioada, 2021-01-04 2023-12-31.
5. PED2019, 2019 P 2 - SP 2.1 - Proiect experimental – demonstrative, PN-III-P2-2.1-PED-2019-0997. Terapii modale selective mediate nanotehnologic cu aplicabilitate patologia oncologica digestive/Selective Nano-mediated Modal Therapies for Digestive Oncological Pathology Applications. Coordinator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO). Director proiect: Cornel Iancu. 2020-11-02 2022-11-01.
6. PED2019 , 2019 P 2 - SP 2.1 - Proiect experimental – demonstrative, PN-III-P2-2.1-PED-2019-4558 Microplafome teranostice pentru terapia multimodala in patologiile oculare umane, o noua paradigma pentru aplicatii biomedicale/Theranostic microplatforms for multimodal therapy in human eye diseases, a new paradigm for the biomedical applications, Coordonator: UNIVERSITATEA DE STIINTE AGRICOLE SI MEDICINA VETERINARA CLUJ-NAPOCA (RO). Director proiect: Dumitrița Olivia RUGINĂ, 2020-11-02 2022-11-01.
7. PED2019, 2019 , P 2 - SP 2.1 - Proiect experimental – demonstrative, PN-III-P2-2.1-PED-2019-3373, Materiale inovative ca suplimente alimentare pentru ingrijirea sanatatii /Innovative materials as dietary suppliments for healthcare, Coordonator: UNIVERSITATEA BABES BOLYAI (RO), Director proiect: Aurora MOCANU; 2020-11-02 2022-10-31.
8. TE2019 2019 P 1 - SP 1.1 - Proiecte de cercetare pentru stimularea tinerelor echipe independente, PN-III-P1-1.1-TE-2019-1276. Nano-sisteme fluorescente sensibile la variatii de pH pentru monitorizarea intracelulara a melanomului/ Fluorescent pH-sensitive nano-sized systems for intracellular melanoma monitoring Coordonator: UNIVERSITATEA DE STIINTE AGRICOLE SI MEDICINA VETERINARA CLUJ-NAPOCA (RO), Director proiect: Dumitrita-Olivia RUGINA, 2020-09-01 2022-08-31.
9. PED2019, 2019 P 2 - SP 2.1 - Proiect experimental – demonstrative, PN-III-P2-2.1-PED-2019-0844. Abordari nano-vaccinale destinate cancerului de colon Nanovaccinal Approaches for Colon Cancer Coordonator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO). Director

proiect: TEODORA MOCAN; 2020-08-03 2022-08-02.

- 10 TE2016, 2016 P 1 - SP 1.1 - Proiecte de cercetare pentru stimularea tinerelor echipe independente, PN-III-P1-1.1-TE-2016-2161. Terapii multimodale dirijate nano-mediate destinate cancerului hepatic. Multi-modal targeted nano-mediated therapy of liver cancer. Coordonator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO); Director proiect: Lucian Mocan 2018-05-02 2020-10-31.
- 11 TE2016, 2016 P 1 - SP 1.1 - Proiecte de cercetare pentru stimularea tinerelor echipe independente. PN-III-P1-1.1-TE-2016-1907. Capsule inteligente de tip polielectrolit multistrat pentru eliberare controlata de molecule bioactive /Smart polyelectrolyte multilayer capsules for controlled release of bioactive compounds Coordonator: UNIVERSITATEA DE STIINTE AGRICOLE SI MEDICINA VETERINARA CLUJ-NAPOCA (RO) Director proiect: Cristina Coman. 2018-05-02 2020-06-15.
- 12 PCE2016, 2016 P 4 - Proiecte de Cercetare Exploratorie, PN-III-P4-ID-PCE-2016-0396 Cai de semnalizare si molecule tinta implicate in chemopreventia cu conjugate obtinute din nanoparticule de argint si extracte naturale in carcinogeneza orala /Signaling pathways and target molecules involved in chemoprevention with nanosilver – natural extract conjugates in oral carcinogenesis, Coordonator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO). Director proiect: Gabriela Adriana Filip; 2017-07-12 2019-12-31.
- 13 BG2016 2016 P 2 - SP 2.1 - Transfer de cunoaștere la agentul economic „Bridge Grant”, PN-III-P2-2.1-BG-2016-0446, Dezvoltarea unui sistem de eliberare controlata a medicamentului pentru prevenirea complicatiilor fungice intestinale la pacientii cu tratament cronic cu antibiotic/The development of a control released drug system for the prevention of intestinal fungal complications in patients with chronic antibiotic treatment, Coordonator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO) Director proiect: Teodora Mocan 2016-09-30 2018-09-30.
- 14 BG2016 2016 P 2 - SP 2.1 - Transfer de cunoaștere la agentul economic „Bridge Grant” PN-III-P2-2.1-BG-2016-0335 Dezvoltarea unor produse funcționale nutraceutice cu aplicații în alimentația sănătoasă și medicina regenerativă, obținute prin utilizarea unor tehnologii inovatoare și sustenabile. Development of some functional nutraceutical products with applications in healthy nutrition and regenerative medicine, obtained by using an innovative and sustainable technology., Coordonator: UNIVERSITATEA DE STIINTE AGRICOLE SI MEDICINA VETERINARA CLUJ-NAPOCA (RO). Director proiect: Ioan MARCUS; 2016-10-01 2018-09-30.
- 15 PED2016 2016 P 2 - SP 2.1 - Proiect experimental - demonstrativ PN-III-P2-2.1-PED-2016-1742 Dezvoltarea unei bio-nanostructuri pentru tratamentul infectiilor cu Klebsiella Pneumoniae via nanofototermodoliza /The development of a gold based bio-nanostructure for treatment of Klebsiella Pneumoniae infections via nano-photothermalolysis, Coordonator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO) Director proiect: Cristian T. Matea. 2017-01-03 2018-06-30.
- 16 PED2016 2016 P 2 - SP 2.1 - Proiect experimental – demonstrative, PN-III-P2-2.1-PED-2016-1490, Co-transplantarea de macrofage imunostimulatoare umane și celule stem mezenchimale pentru regenerarea nervului optic într-un model animal de glaucoma/Co-transplantation of human derived immune stimulatory macrophages and mezenchymal stem cells for optic nerve regeneration in a glaucoma animal model Coordonator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO). Director proiect: Simona Delia Nicoara. 2017-01-03 2018-06-30.
- 17 CI2017 2017 P 2 - SP 2.1 - Cecuri de inovare , PN-III-P2-2.1-CI-2017-0632, Produs Nutraceutic Funcțional Cu Proprietăți Curative Și Paliative Obținut Din Zonar (Lactoser) Îmbogățit Cu Principii Bioactive Naturale Prin Utilizarea Unor Tehnologii Eco-Inovatoare Nutraceutic Functional Product With Curative And Palliative Properties Obtained From Zonar (Lactoser) Enriched With Natural Bioactive Principles By Using Some Eco-Inovative Technologies, Coordonator: Embryom Capital Investment Srl (Ro). Director proiect: Alina Maria Glodean 2017-07-25 2017-12-29.
- 18 RUTE-2014, 2014, Projects for Young Research Teams - RUTE -2014 call, PN-II-RU-TE-2014-4-2267 Dezvolatrea nanoparticulelor de argint cu rol dual in tratamentul osteoporozei si al infectiilor osoase/ The development of dual role silver nanoparticles for the treatment of osteoporosis and bone infections, Coordonator: INSTITUTUL REGIONAL DE GASTROENTEROLOGIE - HEPATOLOGIE PROF. DR.

- OCTAVIAN FODOR CLUJ-NAPOCA (RO). Director proiect: Cristian Tudor Matea 2015-10-01 017-09-30.
- 19 PCCA-2013 2013, Joint Applied Research Projects - PCCA 2013 – call, PN-II-PT-PCCA-2013-4-1232. Tratamentele cu celule stem în afecțiunile degenerative ale retinei cu ajutorul nanotehnologiei Stem cell therapies for degenerative retinal diseases with the help of nanotechnology, Coordonator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO), Director proiect: Simona Delia Nicoara, 2014-07-01 2017-09-30.
- 20 PCCA-2013, 2013, Joint Applied Research Projects - PCCA 2013 – call, PN-II-PT-PCCA-2013-4-1553 Tratamentele multimodale ale cancerului pancreatic prin rezonanța plasmonică activată fototermic și chimioterapie selectivă mediată de biocompozite din argint/Multimodal treatment of pancreatic cancer through photothermic activated plasmonic resonance and selective chemotherapy mediated by silver biocomposites. Coordonator: INSTITUTUL REGIONAL DE GASTROENTEROLOGIE - HEPATOLOGIE PROF. DR. OCTAVIAN FODOR CLUJ-NAPOCA (RO), Director proiect: Vasile Florin Zaharie. 2014-07-01 2017-09-30.
- 21 PCCA-2011-2, 2011, Joint Applied Research Projects - PCCA-2011 call, Type 2 PN-II-PT-PCCA-2011-3.2-1060 Dezvoltarea și evaluarea preclinică a unor nano-sisteme farmaceutice pentru terapia la țintă a cancerului colorectal Development and preclinical evaluation of nanoparticulate drug delivery systems for targeted antitumor therapy of colorectal cancer, Coordonator: UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE "IULIU HATIEGANU" (RO). Director proiect: Laurian Vlase. 2012-07-02 2016-12-31.
- 22 PCCA-2011-2, 2011. Joint Applied Research Projects - PCCA-2011 call, Type 2 PN-II-PT-PCCA-2011-3.2-1289. Nanoterapia fototermică pentru eradicarea selectivă a stafilococului aureus metilino-rezistent cu nanoparticule de aur bioconjugate/Photothermal nanotherapeutics for selective eradication of Methicillin-resistant Staphylococcus aureus (MRSA) with biofunctionalized gold nanoparticles. Coordonator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO). Director proiect: Lucian Mocan. 2012-07-02 2016-12-31.
- 23 PCCA-2011-1, 2011. Joint Applied Research Projects - PCCA-2011 call, Type 1 PN-II-PT-PCCA-2011-3.1-1551. Terapia fototermală selectivă a neoplasmului hepatic uman mediată de nanoparticule de aur biofuncționalizate/Selective near-infrared plasmonic photothermal therapy (PPTT) of human liver cancer mediated by biofunctionalized gold nanoparticles. Coordonator: UNIVERSITATEA DE MEDICINA SI FARMACIE "IULIU HATIEGANU" (RO)/ Director proiect: Cornel Iancu. 2012-07-02 2016-12-31.
- 24 PCCA-2011-1, 2011, Joint Applied Research Projects - PCCA-2011 call, Type 1 PN-II-PT-PCCA-2011-3.1-1586. Proxilaxia nanomediata a cancerului de colon murin pe baza unui vaccin sinergic: nanoparticule de aur MUC- 1 conjugate/celule dendritice/Nanomediata colon cancer prophylaxis in mice using a MUC-1-conjugated GoldNPs/ dendritic cells synergic vaccine. Coordonator: INSTITUTUL REGIONAL DE GASTROENTEROLOGIE - HEPATOLOGIE PROF. DR. OCTAVIAN FODOR CLUJ-NAPOCA (RO) Director proiect: Teodora Mocan . 2012-07-16 2016-12-31.
- 25 PCCA-2011-2, 2011, Joint Applied Research Projects - PCCA-2011 call, Type 2 PN-II-PT-PCCA-2011-3.2-0274. Elaborarea unei strategii de profilaxie bazată pe utilizarea Artemisiei annua în coccidioză la puii broiler Development of a prophylaxis program for coccidiosis control based on the use of Artemisia annua in chickens. Coordonator: UNIVERSITATEA DE ȘTIINTE AGRICOLE SI MEDICINA VETERINARA CLUJ-NAPOCA (RO). Director proiect: Adriana GYORKE. 2013-03-27 2016-12-16.
- 26 IDPCE-2012, 2012. Exploratory Research Projects - PCE-2012 call; PN-II-ID-PCE-2012-4-024. Dezvoltarea unui vaccin destinat imunoprofilaxiei cancerului pancreatic utilizând plasmida ADN-CA 19-9 și nanotuburi de carbon . Development of CA 19-9 plasmid DNA-carbon nanotubes vaccine for pancreatic cancer immunoprophyllaxis. Coordonator: INSTITUTUL REGIONAL DE GASTROENTEROLOGIE - HEPATOLOGIE PROF. DR. OCTAVIAN FODOR CLUJ-NAPOCA (RO). Director proiect: Teodora Mocan. 2013-09-02 2016-09-30.
- 27 IDPCE-2012, 2012, Exploratory Research Projects - PCE-2012 call, PN-II-ID-PCE-2012-4-0241, Tratamentele nanotehnologice pentru tratamentul selectiv al cancerului pancreatic. Nanotherapeutics for the selective treatment of pancreatic cancer. Coordonator: INSTITUTUL REGIONAL DE

GASTROENTEROLOGIE - HEPATOLOGIE PROF. DR. OCTAVIAN FODOR CLUJ-NAPOCA (RO)

.Director proiect: Cornel Iancu. 2013-09-02 2016-09-30.

- 28 RUTE-2011, 2011, Projects for Young Research Teams - TE-2011 call. PN-II-RU-TE-2011-3-0251
Ablația fototermală mediată LASER a cancerului pancreatic uman cu nanoparticule de aur
immunoconjugate/LASER mediated photothermal ablation of human pancreatic cancer with
immunoconjugated gold nanoparticles. Coordonator: INSTITUTUL REGIONAL DE
GASTROENTEROLOGIE - HEPATOLOGIE PROF. DR. OCTAVIAN FODOR CLUJ-NAPOCA (RO).
Director proiect: Mocan Lucian. 2011-11-09 2014-11-08.