



## OANA ISABELLA GAVRILIUC

OncoGen Centre de Thérapies Géniques et Cellulaires dans le Traitement du Cancer  
Hôpital Clinique d'Urgence « Pius Brînzeu » Timișoara  
Liviu Rebreanu No. 156, 300723, Timișoara, Roumanie  
+40374 161282  
e-mail: gavriliuc.oana@umft.ro

### FORMATION

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- Doctorat (PhD) Médecine | 2006-2010  
Département d'Immunologie, Université de Médecine et Pharmacie « Victor Babeș », Timișoara  
Thèse: *Perspectives on the Treatment of Diabetes Mellitus Employing Adult Stem Cell Therapy*,  
Coordinateur scientifique Prof. Dr. Virgil Paunescu
- Master (MSc), Méthodes et techniques statistiques appliquées à la recherche clinique et aux études de santé | 2013-2015  
Département de Mathématiques, Université Polytechnique de Timișoara.
- Diplôme de Licence Chimie-Biologie | 2002-2006  
Département de Chimie-Biologie, Université de l'Ouest, Timișoara.
- Diplôme de Baccalauréat | 1998-2002  
Collège National de Banat, Timișoara.

### EXPERIENCE PROFESIONNELLE

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- Maître de conférences (Assistant Professor) | 2011 – présent  
Département d'Immunologie, Université de Médecine et Pharmacie « Victor Babeș » Timișoara
- Chercheur Senior | 2016-présent  
OncoGen, Hôpital Clinique d'Urgence « Pius Brînzeu » Timișoara
- Chercheur postdoctoral | 2013-2015  
CIFB, Hôpital Clinique d'Urgence « Pius Brînzeu » Timișoara
- Chercheur postdoctoral | 2011-2013  
Département d'Embryologie, Université des Sciences Agricoles et de Médecine Vétérinaire du Banat Timișoara
- Doctorante et assistante d'enseignement | 2006-2010  
Département d'Immunologie, Université de Médecine et Pharmacie « Victor Babeș » Timișoara

#### Méthodes de laboratoire et d'analyse:

- Cytométrie en flux (BD FACScalibur, BD FACSverse, BD FACSAria, Miltenyi MACSQuant): immunophénotypage, tests de cytotoxicité, viabilité et prolifération cellulaire, contenu en ADN, suivi cellulaire (*cell tracking*) et tri cellulaire;
- Cultures cellulaires: cellules tumorales, cellules dérivées du sang, lignées cellulaires, cellules souches et iPSC, cultures primaires à partir d'échantillons de tissus;
- Biologie moléculaire: expression génique, clonage moléculaire, transfection, production et transduction de vecteurs lentiviraux, inhibition par siRNA, reprogrammation cellulaire;

- Imagerie et microscopie: immunocytochimie, immunofluorescence, suivi cellulaire en temps réel (*live cell monitoring*);

#### **Bioinformatique et analyse de données:**

- Bioinformatique appliquée: Conception de vecteurs, configuration expérimentale pour le clonage de gènes, analyse des données de séquençage et d'expression génique (CLC Bio DNA Workbench, Serial Cloner, Geneious, Vector NTL, divers programmes en ligne en accès libre);
- Logiciels statistiques : Prism 7 Graphpad, SPSS, R.;

#### **Compétences organisationnelles et sociales:**

- Bonne expérience en gestion de projets de recherche (3 ans en tant que directrice de projet);
- Expérience dans l'organisation d'ateliers et de sessions de formation;
- Bonne expérience dans la supervision et la coordination d'étudiants de premier et deuxième cycles lors de leurs travaux de recherche et de l'élaboration de leurs thèses;
- Bonne capacité à travailler avec de grands groupes au sein d'équipes de projets de recherche complexes, nationales et étrangères;
- Très bonne capacité d'adaptation à des environnements culturellement diversifiés;
- Très bonnes compétences en communication développées au cours de 15 années d'activité d'enseignement et de participation à des conférences internationales;

### **BOURSES ET DISTINCTIONS**

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Bourse de mobilité Erasmus+, Dept. de Statistique, Alpen Adria University, Klagenfurt, Austria | 2015

Chercheur invitée (Visiting Scholar) Radboud University Nijmegen Medical Center, Pays-Bas  
Département de Médecine Interne et Maladies Infectieuses | 2009

Bourse Rotary Hôpital Canisius-Wilhelmina, Nijmegen, Pays-Bas  
Dept. de diagnostic moléculaire | 2009

Bourse de recherche au centre de transfusion DRK-Blutspendedienst, Francfort  
offerte par l'Université J.W. Goethe, Francfort, Allemagne | 2007

Bourse de recherche pour doctorants  
décernée par le Conseil National de la Recherche Scientifique | 2007-2010

Distinction « Étudiant Éminent » de la Faculté de Chimie-Biologie-Géographie  
décernée par l'Association Orizonturi Universitare | 2004

Représentante des étudiants du Dépt de Chimie au Comité des Profs de la CBG | 2003-2005

Bourse Nationale de Performance, MECT | 2004-2006

Bourse Nationale de Mérite, MECT | 2002-2004

### **FORMATION (SELECTION)**

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Formation BD FACS Aria, BD Biosciences, Erembodegem, Belgium | 2015

CMED Clinical Services Romania – stage en statistiques, Timișoara, Romania | 2014

Stemgent *Human iPS Cell Training Course* sur les techniques de reprogrammation cellulaire, La Jolla, CA, USA | 2011

FOCIS/JSI *Immunology Update Special Teaching Course*, Prof. Dr. Abul K. Abbas et Prof. Dr. Andrew H. Lichtman, 14th International Congress of Immunology, Kobe, Japan, avec une bourse de voyage offerte par International Union of Immunological Societies | 2010

CONCERT Labcourse, *Lentiviral vectors: concepts, practice, hope and reality*, Université d'Evry-Val d'Essonne, Evry, France, avec bourse de voyage | 2008

Curs de pregătire *Transdifferentiation to Beta Cells*, Juvenile Diabetes Research Foundation University of Bath, UK, avec bourse de voyage | 2007

Curs de vară *Introduction to Chromatography*, Prof. Dr. Bernd Jastorff UFT Bremen, avec bourse de voyage | 2005

École d'été francophone *Pathologies and Molecular Pharmacology. Biotechnologies* Coordonnée par Pr. Emér. Jean Montreuil (Université des Sciences et Technologies de Lille) Arad, Roumanie | 2005

Curs postuniversitar *Environmental Issues for a Sustainable Society*, Prof. Dr. K.C. Swallow (MIT/Merrimack College), Timișoara | 2005

## PROJETS DE RECHERCHE (MEMBRE DE L'EQUIPE)

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PNRR/2022/C9/MCID/I8 *RBC-engager for NK and T cell activation in cancer immunotherapy (REAKT)*, contract nr. 760103/23.05.2023, cod proiect CF 227/29.11.2022 | 2023-2026

RORS00040 *Cross-border cooperation to foster the resilience of clinical management in cancer patients by establishing best practices in personalized molecular-based diagnostics, treatment, and long-term care (CROSSCARE)* | 2024-2026

PN-III-P2-2.1-SOL *Development of new technologies, drugs and vaccines for prevention of SARS-CoV-2 (DECODE)* | 2020-2021

PN-III-P1-1.2-PCCDI *Development of BIONanotechnologies based on Extracellular Vesicles, applied in early diagnostic, prognosis and therapy of atherosclerotic disease (BIOVEA) – 83PCCDI* | 2018-2021

PN-III-P2-2.1-PED *3D bioprinting methods for obtaining tissue constructs of tumor microenvironment* | 2017-18

POC-A1-A1.1.4 *Chimeric Antigen Receptor Targeted Oncoimmunotherapy with Natural Killer cells* | 2016-2020

PN-II-RU-PD *Induction of mesenchymal stem cells into insulin secreting cells as diabetes therapy*, project director | 2013-2015

PN-II-PCCA *Translating stem cell technologies to the conservation of highly endangered species (CONSENS)* | 2012-2015

PN-II-ID *Tumor-associated fibroblasts as novel therapeutic target in anti-tumor therapy – identification of origin, role and characteristic molecular markers* | 2012-2015

PN-II-Parteneriats Complexes, *Molecular mechanisms of thymic involvement in diabetes* | 2008-11

PN-II- Romania-Ungaria *Isolation, characterization and in vitro differentiation of variety of animal and human embryonic and adult stem cells* | 2007-2009

PN-II-Partneriats Complexes, *Genetic engineering of cancer stem cells for immune response modulation in cancers of non-viral origin* | 2007-2009

PN-II-Parteneriats Complexes, *In vitro lymphocyte therapy – a modern approach to tolerance induction during organ transplant* | 2007-2010

## BREVETS

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1. Bojin MF, GAVRILIUC OI, Ordodi LV, Sălăgean AO, Tîrziu A, Panaitescu C, Păunescu V. *Produit et méthode basés sur des peptides longs synthétiques pour la prévention de l'infection par le SARS-CoV-2*, no. a 2022 0005/20.01.2022, OSIM
2. GAVRILIUC OI, Bojin MF, Hritcu EM, Tudor BAM, Mîrcu C, Huțu I. " *Instrument et méthode pour l'isolement des cellules somatiques du lait par centrifugation* ", RO202100600A-2021-09-30; pub RO135472A0-2022-01-28; OSIM
3. Hutu I, Panaitescu C, Tanasie G, Gaspar CM, Zambori C, Tatu CS, Anghel S, GAVRILIUC OI,

Paunescu V. Boîte microbiologique assurant le microclimat pour la croissance des biofilms bactériens RO202100557A-2021-09-16; Publ RO135526A0-2022-02-28; OSIM

4. Ordodi LV, Dumitrel GA, PanA AM, Todea A, Matiu-Iovan L, Ionel RC, Sandesc D, Bedreag OH, Papurica M, Rogobete AF, Simion I, Motica A, Groapa DS, Paunescu V, Bojin MF, GAVRILIUC OI. „Dispositif pour réduire la charge microbiologique de l'air expiré par les patients ventilés mécaniquement”, no.134883, 22/05/2020, OSIM
5. Bojin MF, GAVRILIUC OI, Tanasie G, Tatu CA, Panaitescu C, Paunescu V, Nedea CE. „Cellules CAR-T bispécifiques sélectives pour le traitement des tumeurs solides”, nr. A/00704/2020, data depunerii 06/11/2020, OSIM
6. Nedea CE, Paunescu V, GAVRILIUC OI, Zogoreanu R, Ivan A, Cristea IM, Tatu CA, Bojin MF, Anghel SS. „Cellules cytotoxiques porteuses de récepteurs antigéniques chimériques universels”, nr. A/00705/2020, 06/11/2020, OSIM
7. Ordodi LV, Vatau D, Salinschi M, Olariu AF, Dumitrel GA, Pana AM, Vaszilcsin N, Dan ML, Matiu-Iovan L, Ionel RC, Udrea IA, Bonciog DD, Veres DA, Stanese CM, Paunescu V, Bojin MF, GAVRILIUC OI, Lukinich-Gruia AT, Negru S, Crisnic D, Frunza GV. Dispositif électrostatique pour mesurer la tension électrique avec indicateur optique. ROA202200635A; Pub RO137476A0, OSIM

## PUBLICATIONS

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### Articles en texte intégral

1. Tirziu A, Bojin MF, GAVRILIUC OI, Faur CI, Paunescu V. From CAR-T Cells to Exosome-Based Immunotherapy: Exploring the Frontiers of Cell-Free Targeted Cancer Therapeutics. *Cells*. 2026; 15(1):70. <https://doi.org/10.3390/cells15010070>; IF = 5.2
2. Tirziu A, GAVRILIUC OI, Bojin MF, Paunescu V. Exploring CAR-PBMCs: A novel strategy against EGFR-positive tumor cells. *Biomedicines* 2025; 13: 264; DOI: 10.3390/biomedicines13020264; WOS:001430632700001; eISSN: 2227-9059; IF = 3.9
3. Buda VO, Oprean C, GAVRILIUC OI, Diaconeasa Z, Cata A, Haidu D, Minda D, Paunescu A, Dehelean CA, Danciu C. Inorganic Element Identification and In Vitro Preliminary Evaluation of Three Types of Standardized Black Chokeberry Extracts Against Human Pulmonary Artery Endothelial Cells (HPAECs). *Plants* 2025, 14(8): 1202. DOI: <https://doi.org/10.3390/plants14081202>; IF = 4.1
4. Harich OO, GAVRILIUC OI, Ordodi VL, Tirziu A, Paunescu V, Panaitescu C, Bojin MF. In Vitro Study of the Multimodal Effect of Na<sup>+</sup>/K<sup>+</sup> ATPase Blocker Ouabain on the Tumor Microenvironment and Malignant Cells. *Biomedicines*, 2023; 11: 2205; DOI: <https://doi.org/10.3390/biomedicines11082205>; IF = 4.7
5. Barbulescu GI, Bojin FM, Ordodi VL, Goje ID, Buica TP, Gavriliuc OI, Baderca F, Hoinoiu T, Paunescu V. Innovative Biotechnology for Generation of Cardiac Tissue. *Applied Sciences*. 2021; 11(12):5603.
6. Bojin F, Robu A, Bejenariu MI, Ordodi V, Olteanu E, Cean A, Popescu R, Neagu M, GAVRILIUC O, Neagu A, Arjoca S, Păunescu V. 3D Bioprinting of Model Tissues That Mimic the Tumor Microenvironment. *Micromachines* (Basel). 2021 May 9;12(5):535.
7. Bojin F, GAVRILIUC OI, Margineanu M, Paunescu V. Design of an Epitope-Based Synthetic Long Peptide Vaccine to Counteract the Novel China Coronavirus (2019 nCoV). *Preprints* 2020, 2020020102
8. Olteanu GE, Mihai IM, Bojin F, GAVRILIUC OI, Paunescu V. The natural adaptive evolution of cancer: The metastatic ability of cancer cells. *Bosn J Basic Med Sci.*, 2020; 20(3): 303-309.
9. Popa L, Crisnic D, Nistor D, Plesca D, Tatu C, Tanasie G, Zogorean R, GAVRILIUC OI, Anghel S, Bojin F, Paunescu V. Modern application of Next-Generation Sequencing (NGS). *Fiziologia-Physiology* 2019; Vol. 29, No. 2(98): 9-16.
10. Plesca D, Crisnic D, Nistor D, Tatu C, Tanasie G, Zogorean R, Anghel S, GAVRILIUC OI, Bojin F, Paunescu V. *Fiziologia-Physiology* 2019; Vol. 29, No. 2(98): 38-43.
11. Barbulescu G, Bojin F, Ordodi V, Anghel S, GAVRILIUC OI, Paunescu V. Human induced pluripotent stem cells-derived cardiomyocytes for cardiac applications. *Fiziologia-Physiology* 2019; 29(97): 5-13.
12. Szekely FAE, Zogorean R, Anghel S, GAVRILIUC OI, Bojin F, Paunescu V. CAR-T cells therapy versus TILs therapy: the future of cancer immunotherapy. *Fiziologia-Physiology* 2018; Vol. 28, No. 1(95): 4-15
13. Zogorean R, GAVRILIUC OI, Bojin F, Paunescu V. Real-time imaging of NK-92 cells interaction with tumoral cell lines. *Fiziologia-Physiology* 2018; Vol. 28, No. 2(96): 4-9
14. Nagib R, Zogorean R, GAVRILIUC OI, Szuhaneck C, Moldoveanu B, Negrutiu ML, Sinescu C, Paunescu V, Brad S Cytotoxicity Assessment of Metal and 3D Printed Resin Orthodontic Attachments. *An in vitro cell culture behavior study*, *Revista de Chimie* 69, No.6, 2018: 1515-18
15. Tatu CS, Groza S, Tatu FR, Bojin FM, Marusciac L, Gavriliuc O, Hurmuz M, Cean A, Paunescu V,

- Tanasie G *In vivo Functional Studies of Human Adult Mesenchymal Stem Cells Migration towards Inflammatory Lesions after Transfection with CD29 Specific siRNA in Mouse Models*, *Rom Biotechnol Lett* (2015), 20 (6): 11057-66
16. Anastasiu MD, Cean, A.; Bojin, F.; Gavriiliuc, O.; Gluhovschi, A.; Anastasiu, D.; Craina, M.; Tatu, C.; Tanasie, G.; Panaitescu, C.; Paunescu, V. *Placental Stem Cells Modulate Tumor Formation In Mouse Model Of Uterine Sarcoma*, *Fiziologia-Physiology* (2015), 25(1): 26-30
  17. Groza S, Anghel S, Cristea M, Tatu C, Tanasie G, Panaitescu C, Gavriiliuc O, Paunescu V, Bojin F *Telomere Length Changes In Alzheimer Disease*, *Fiziologia-Physiology* (2014), 24(2): 27-30
  18. GAVRILIUC OI, Bojin FM, Paunescu V *Furin-cleavable Insulin Expressed in Mesenchymal Stem Cells as Diabetes Therapy*, *Fiziologia-Physiology* (2015), 25(4): 28-34
  19. Groza S, Anghel S, Tatu C, Tanasie G, Panaitescu C, Gavriiliuc O, Paunescu V, Bojin F *Lymphocytes Subsets Involved In Alzheimer Disease-Associated Immunosenescence*, *Fiziologia-Physiology* (2014), 24(1): 22-26
  20. Paunescu V, Bojin FM, GAVRILIUC OI, Taculescu EA, Ianos R, Ordodi VL, Iman VF, Tatu CA. *Enucleation: a possible mechanism of cancer cell death*, *J Cell Mol Med*. 2014 Jun;18(6):962-5
  21. Tatu C, Bojin MF, Gruia A, Ordodi V, Mic F, Iman V, Cean A, GAVRILIUC OI, Paunescu V. *Features of Lipid Metabolism along Differentiation Pathway of Human Mesenchymal Stem Cells towards Mature Adipocytes*, *Rom Biotechnol Lett*, 19 (2), pg. 9257-9271, 2014
  22. Ilie DE, Cean A, GAVRILIUC OI, Păcălă N. *Rapid and Sensitive Detection of BLAD in Cattle Population*, *Scientific Papers: Animal Sciences and Biotechnologies*, 2014, 47(1)109-112
  23. GAVRILIUC O, Paunescu V, Milovanov C, Tulcan C, Hutu I, Mircu C. *In vitro expansion of bovine skeletal muscle progenitor cells*, *Scientific Papers: Veterinary Medicine*, vol. XLVI, 2013
  24. Vintila R, GAVRILIUC O, Bojin F, Tatu C, Vintila C, Iovanescu G *Isolation and Characterization of Vestibular Stem Cells*, *Scientific Papers: Animal Sciences and Biotechnologies*, 2013, 46 (2)
  25. Ilie DE, Cean A, GAVRILIUC OI, Carstea AC, Gradinaru AC. *High-Resolution Melting Assay as a Tool for Identification of CSN3 Genotypes in Cattle*, *Scientific Papers: Animal Sciences and Biotechnologies*, 2013, 46 (1)
  26. Barbu-Tudoran L, GAVRILIUC OI, Paunescu V, Mic FA *Accumulation of tissue macrophages and depletion of resident macrophages in the diabetic thymus in response to hyperglycemia-induced thymocyte apoptosis*, *J Diabetes Complications*. 27(2):114-22 (2013)
  27. Vintila R, GAVRILIUC O *Results regarding self renewal and differentiation of cells composing inner ear derived spheres*, *Scientific Papers: Animal sciences & Biotechnologies*, 45(1), pp 358-365 (2012)
  28. GAVRILIUC O, Bojin FM, Rosca A, Tatu CA, Paunescu V. *Silencing of the Her2 gene by RNA interference inhibits proliferation of breast cancer cell line SK-BR-3*, *Fiziologia-Physiology*, 21(71), pp 4-9 (2011)
  29. Bojin FM, GAVRILIUC O, Cristea MI, Tanasie G, Tatu CS, Panaitescu C, Paunescu V. *Telocytes within human skeletal muscle stem cell niche*, *J. Cell. Mol. Med*, 15(10), pp. 2269-72 (2011)
  30. Paunescu V, Bojin FM, Tatu CA, GAVRILIUC O, Rosca A, Gruia A, Tanasie G, Bunu C, Crisnic D, Gherghiceanu M, Tatu FR, Tatu CS, Vermesan S. *Tumour-associated fibroblasts and mesenchymal stem cells: more similarities than differences*, *J. Cell. Mol. Med* 15(3):635-46 (2011)
  31. Bojin F, Ordodi V, Anghel S, Gruia A, Gavriiliuc O, Georgescu R, Vintila R, Tatu C, Bunu C, Tatu CA, Tanasie G, Paunescu V. *Mesenchymal stem cells admix with biological scaffold heal bone defects in rat model*. *Rom Biotechnol Lett*, 16(3), pp. 6218-25 (2011)
  32. Tanasie G, Bojin F, Ordodi V, Gruia A, GAVRILIUC O, Cristea M, Dehelean C, Vintila R, Tatu CA, Bunu C, Paunescu V. *Epithelization of skin lesions in animal model treated with mesenchymal stem cells and derivatives*, *Rom Biotechnol Lett*, accepted for publication (2011)
  33. GAVRILIUC O, Tatu CA, Paunescu V *The race to cure diabetes: how far are we from a breakthrough?* *Fiziologia-Physiology*, 20(65), pp 4-8 (2010)
  34. Bojin F, Tatu CA, GAVRILIUC O, Gruia A, Tanasie G, Tatu C, Cristea M, Ciuculescu F, Tocut A, Crisnic D, Carabineanu A, Nistor D, Bunu C, Paunescu V. *Stromal cells – tumor microenvironment interactions – Part II*, *Fiziologia - Physiology*, 20(66), pp. 31-36 (2010)
  35. Bojin F, Tatu CA, GAVRILIUC O, Gruia A, Tanasie G, Tatu C, Cristea M, Ciuculescu F, Tocut A, Crisnic D, Carabineanu A, Nistor D, Bunu C, Paunescu V. *Stromal cells – tumor microenvironment interactions – Part I*, *Fiziologia - Physiology*, 20(65), pp. 37-41 (2010)
  36. David VL, Izvernariu DA, Bojin F, GAVRILIUC O, Popoiu MC, Tanasie G, Puiu M, Boia ES. *Insulin growth factor I involvement in the etiology of pectus excavatum in children*, *Fiziologia - Physiology*, 20(65), pp. 17-20 (2010)
  37. Bojin MF, Tatu CA, GAVRILIUC O, Ordodi V, Gruia A, Rosca A, Tanasie G, Tatu C, Crisnic D, Nistor D, Cristea M, Anghel S, Boleman A, Bunu C, Paunescu V *In vitro characterization of mechanisms involved in adipogenic differentiation of mesenchymal stem cells and tumour associated fibroblasts*, *Fiziologia-Physiology*, 19(64), pp 21-6 (2009)
  38. Tanasie G, Bojin F, Tatu CA, GAVRILIUC O, Tatu C, Nistor D, Ionita H, Bunu C, Paunescu V. *Mechanisms Involved in Mesenchymal Stem Cells Differentiation towards the Epithelial Lineage. Effects of*

- Chemical Inductors*, Fiziologia – Physiology, 19(63), pp 7-12 (2009)
39. Vintila R, GAVRILIUC O, Gocza E, Paunescu V, Ilie D, Vintila C, Bojin F, Tatu CA *The inner ear of seven day old mice contains pluripotent stem cells*, Scientific Papers: Animal sciences & Biotechnologies, 42(1), pp 115-124 (2009)
  40. Vintila R, Ilie D, GAVRILIUC O, Gocza E, Lichner Zs, Vintila C, Nichita I, Cotulbea S, Tatu CA *Utricular epithelia in mice contains pluripotent stem cells*, Scientific Papers: Animal sciences & Biotechnologies, 41(1), pp 174-180 (2008)
  41. GAVRILIUC O, Ostafe V. *Comparative study of vitamins B content of some pharmaceutical and dietary supplements*, Annals of West University of Timisoara, Series Chemistry 15(1) (2006), pp 91-102

**Livre:**

GAVRILIUC O, Ostafe V. *Balancing the B vitamins. An Insight into the Health Claims of Dietary Supplements*, Quantum Biochemistry Monographs and Specific Interactions 4(2006) pp 1-102

**Thèse de Doctorat:**

Titre: *Perspectives on the Treatment of Diabetes Mellitus Employing Adult Stem Cell Therapy*

Scientific coordinator: Prof. Dr. Virgil Paunescu

Immunology Dept., University of Medicine and Pharmacy 'Victor Babes', Timisoara (2006-2010)

**Thèse de Master:**

Titre: *Bayesian data analysis of linear models using JAGS*

Scientific coordinators: Lect.-Dr. Maria Jivulescu, Prof. Dr. Jürgen Pilz

MTSSCC, Dept. of Mathematics, The Polytechnic University of Timisoara, Alpen-Adria University Klagenfurt

**Résumés et présentations:**

1. Bojin F, Tirziu A, GAVRILIUC OI, Paunescu V. *Paradigm shift in vaccine strategy – synthetic long peptides (SLPs)*. A 4-a Conferinta a Asociatiei Romane de Imuno-Dermatologie, A 49-a Conferinta a Societatii de Imunologie din Romania, 30 Septembrie – 03 Octombrie 2020, eveniment onsite si online, Abstract book pg.54.
2. GAVRILIUC O, Zogorean R, Bojin F, Paunescu V. *CAR-based immunotherapy of EGFR-positive solid tumors using cytokine-activated peripheral blood killer cells*, Human Gene Therapy 30(12) Dec 2019:A1-A22, International Conference on Lymphocyte Engineering, 13-15 Sep 2019, London
3. Bojin F, GAVRILIUC O, Paunescu V *Tumor-associated fibroblasts: generic target of cancer immunotherapy*, Human Gene Therapy 29(11):A19, International Conference on Lymphocyte Engineering, 13-15 Sep 2018, Madrid, e-poster
4. Cean A, Ilie D, GAVRILIUC O, Paunescu V *Reproductive biotechnologies for the conservation of Romanian Grey Steppe genetic heritage*, Journal of Biotechnology 231, 2016, S100
5. Bojin M, Gavriiliuc O, Tatu CS, Tanasie G, Panaitescu C, Tatu CA, Paunescu V *Cytotoxic T lymphocytes functionally active against tumor microenvironment-derived specific antigen*, European Journal of Cancer 50, Suppl 5. 2014, S217
6. GAVRILIUC OI, Bojin F, Paunescu V *Are tumor-associated fibroblasts mesenchymal stem cell?* Stem Cells & Epigenetics Abstract Book, 16-18 Oct 2014, pg.42, poster
7. GAVRILIUC OI, Bojin FM, Tatu CA, Paunescu V *Genetically-engineered insulin not recognized by autoreactive T Cells in T1D*, Cell Symposia- Systems Approach to Metabolic Disease Abstract Book, Chicago, 1-3 Oct 2014, poster (P22)
8. Lazarovicz R, Toma M, GAVRILIUC O, Marusciac L, Gruia A, Tatu C, Tanasie G, Panaitescu C, Bojin F, Paunescu V. *Repurposing Na<sup>+</sup>/K<sup>+</sup> pump blockers for in vitro suppression of tumor development*. Front. Immunol. Conference Abstract: 15<sup>th</sup> International Congress of Immunology, August 22-27, 2013, Milan, Italy, Abstract book, pg.843, doi: 10.3389/conf.fimmu.2013.02.00498
9. Toma M, Lazarovicz R, GAVRILIUC O, Marusciac L, Gruia A, Tatu C, Tanasie G, Panaitescu C, Bojin F, Paunescu V. *Tumor associated fibroblasts are endowed with increased ability to support tumor development*. Front. Immunol. Conference Abstract:15<sup>th</sup> International Congress of Immunology, August 22-27, 2013, Milan, Italy, Abstract book, pg.963 doi: 10.3389/conf.fimmu.2013.02.00446
10. GAVRILIUC O, Paunescu V, Ilie D, Milovanov C, Tulcan C, Hutu I, Mircu C *Gene expression patterns during in vitro differentiation of bovine skeletal muscle*, Current Opinion in Biotechnology 24S, pg. S143 (2013), European Biotechnology Congress, Bratislava May 16-18, 2013, poster presentation
11. Ilie DE, Cean A, GAVRILIUC OI, Neo SI, Chirila D, Hutu I, Pacala N *High-resolution Melting Analysis for the Rapid and Sensitive Detection of BLAD*, Current Opinion in Biotechnology, 24S, pg. S49 (2013),

- European Biotechnology Congress, Bratislava May16-18, 2013, poster presentation
12. Bojin F, GAVRILIUC O, Tanasie G, Tatu C, Panaitescu C, Cernescu L, Marusciac L, Toma M, Lazarovicz R, Paunescu V. *Targeted methods for isolation of human cytotoxic T lymphocytes against tumor microenvironment*. Physiology Conference – New facet of function and dysfunction. Current progress in biomedical sciences and medical education, May 9-10, 2013, Iasi, Romania, Abstract book
  13. Bojin F, Ordodi V, GAVRILIUC O, Cristea M, Anghel S, Gruia A, Mic FA, Cean A, Lazarovicz R, Toma M, Marusciac L, Tanasie G, Tatu C, Panaitescu C, Paunescu V. *In vitro models for understanding molecular mechanisms underlying occurrence of obesity*. Conference and Advanced Translational Research Workshop: Chronic Diseases –From Pathogenesis to Therapy, 25-27 Oct 2012, Timisoara, Abstract book pg. 37, ISBN 978-606-8054-93-3, oral presentation
  14. Bojin F, Ordodi V, Anghel S, Cristea M, GAVRILIUC O, Marusciac L, Toma M, Lazarovicz R, Panaitescu C, Paunescu V. *Na/K – ATP-ase blockers inhibit functionality of bone marrow-derived mesenchymal stem cells*. Conference and Advanced Research Workshop – Sudden Cardiac Death and Cardioprotection, 6-9 Sept 2012, Timisoara, Abstract book pg. 97
  15. Cernescu L, Toma M, Bojin F, GAVRILIUC O, Anghel S, Cristea M, Gruia A, Tatu C, Tanasie G, Panaitescu C, Paunescu V. *Proliferative potential of double positive CD4+/CD8+ T cells in co-culture system with tumor cells*. The 24th Annual Immunology Conference, 27-29 Sept 2012, Bucharest, Abstract Book pg. 102
  16. Bojin F, GAVRILIUC O, Cristea MI, Gruia AT, Anghel S, Tatu CS, Tanasie G, Panaitescu C, Tatu CA, Paunescu V. *Ouabain inhibits in vitro proliferation of tumour-associated fibroblasts and cancer cell lines*. European Journal of Cancer 48, Suppl. 5 (2012): S52; Proceedings Book, 22<sup>nd</sup> Biennial Congress of the European Association of Cancer Research –From basic research to personalized cancer treatment, 7-10 July 2012, Barcelona, Spain
  17. Bojin F, Ordodi V, GAVRILIUC O, Cristea M, Anghel S, Gruia A, Nistor D, Crisnic D, Boleman A, Tanasie G, Tatu C, Panaitescu C, Paunescu V. *Na/K pump inhibitors decrease proliferation of normal and tumor cells*. Fiziologia-Physiology, 2012, Suppl.: 34 – The 11th national Congress of the Romanian Society of Physiological Sciences, 10-12 May 2012, Timisoara, oral presentation
  18. Paunescu V, Bojin F, Ordodi V, GAVRILIUC O, Cristea M, Anghel S, Gruia A, Mic FA, Tanasie G, Tatu C, Panaitescu C. *Molecular expression pattern of human mesenchymal stem cells –differentiated adipocytes*. Fiziologia-Physiology, 2012; Suppl: 22 - 11th National Congress of the Romanian Society of Physiological Sciences, 10-12 May 2012, oral presentation
  19. Bojin F, GAVRILIUC O, Ordodi V, Cristea M, Anghel S, Crisnic D, Nistor D, Tatu C, Tanasie G, Panaitescu C, Paunescu V. *Controversies related to cell cultures obtained from various tissular samples*. Fiziologia - Physiology, 21(72), pp. 4-9 (2011)
  20. GAVRILIUC O, Bojin F, Rosca A, Tatu CA, Paunescu V. *Silencing of the Her2 gene by RNA interference inhibits proliferation of breast cancer cell line SK-BR3*. Fiziologia-Physiology, 2011; suppl: 27 - 41st Annual Immunology Conference, Sept 22-24, 2011, Timisoara, Romania, oral presentation
  21. Paunescu V, Bojin F, GAVRILIUC O, Tatu CA, Ordodi V, Rosca A, Cristea M, Gruia A, Anghel S, Nistor D, Crisnic D, Tatu C, Tanasie G, Panaitescu C. *Multipotent stromal cells of different origins: insights on in vitro characteristics*. Fiziologia-Physiology, 2011; suppl: 33 - 41st Annual Immunology Conference, Sept 22-24, 2011, Timisoara, Romania, oral presentation
  22. Bojin F, GAVRILIUC O, Tatu CA, Ordodi V, Rosca A, Cristea M, Gruia A, Anghel S, Nistor D, Crisnic D, Tatu C, Tanasie G, Panaitescu C, Paunescu V. *Ouabain-induced effect on normal and tumor cell line*. Fiziologia-Physiology, 2011; suppl: 23 - 41st Annual Immunology Conference, Sept 22-24, 2011, Timisoara, Romania, oral presentation
  23. Ordodi V, Bojin F, Gruia A, Boleman A, GAVRILIUC O, Cristea M, Anghel S, Tanasie G, Panaitescu C, Paunescu V. *Mesenchymal stem cells as model of in vitro adipogenesis*. Fiziologia-Physiology, 2011; suppl: 55 - 41st Annual Immunology Conference, Sept 22-24, 2011, Timisoara, Romania
  24. GAVRILIUC O, Rosca A, Ordodi V, Gruia A, Mic F, Bojin F, Tatu C, Tanasie G, Paunescu V. *Induction of mesenchymal stem cells into insulin-secreting cells*. VIth Academician Nicolae Cajal Symposium, Bucharest, March 30-April 01 2011, Abstract book pg. 19, prezentare orala
  25. Bojin F, GAVRILIUC O, Tatu CA, Ordodi V, Rosca A, Cristea M, Gruia A, Anghel S, Boleman A, Crisnic D, Tatu C, Tanasie G, Panaitescu C, Paunescu V. *Genetic changes during adipocytes ontogenesis*. VIth Academician Nicolae Cajal Symposium, Bucharest, March 30-April 01 2011, Abstract book pg. 19.
  26. Paunescu V, Bojin F, GAVRILIUC O, Tatu CA, Ordodi V, Rosca A, Cristea M, Gruia A, Anghel S, Crisnic D, Tatu C, Tanasie G, Panaitescu C. *In vitro suppression of tumor development*. VIth Academician Nicolae Cajal Symposium, Abstract book pg. 15. Bucharest, March 30-April 01 2011.
  27. Bojin F, GAVRILIUC O, Tatu CA, Cristea M, Anghel S, Crisnic D, Nistor D, Tatu C, Tanasie G, Panaitescu C, Paunescu V. *In vitro adipogenic differentiation pathway*. A XXV-a Conferință Națională a Societății Române de Fiziologie, 26-28 Mai 2011, Târgu Mureș, Romania
  28. Paunescu V, Bojin F, GAVRILIUC O, Tanasie G, Panaitescu C. *Stem cells differ in their pro-angiogenic*

- potential*. The 1st Congress CompasX, Timisoara 1-2 April, 2011, Abstract book pg. 2.
29. Paunescu V, Bojin F, Cristea M, GAVRILIUC O, Anghel S, Tanasie G, Tatu C, Panaitescu C. *Characterization of stem cells of different origins*. A XXV-a Conferință Națională a Societății Române de Fiziologie, 26-28 Mai 2011, Târgu Mureș, Romania
  30. Tanasie G, GAVRILIUC O, Bojin F, Anghel S, Tatu C, Bunu C, Paunescu V. *Plasticity of human mesenchymal stem cells - In vitro assays*. Diaspora in Romanian scientific research and higher education Conference, Romanian Academy, Bucharest (Sep 22-23, 2010), oral presentation
  31. GAVRILIUC O, Rosca A, Ordodi V, Gruia A, Mic F, Bojin F, Tatu C, Paunescu V. *Insulin-secreting mesenchymal stem cells for Type 1 Diabetes*. Diaspora in Romanian scientific research and higher education Conference, Romanian Academy, Bucharest (Sep 22-23, 2010), Abstract book (Stem cells) pp.36, poster
  32. Bojin F, Tatu CA, GAVRILIUC O, Rosca A, Tatu C, Tanasie G, Cristea M, Gruia A, Crisnic D, Nistor D, Anghel S, Bunu C, Paunescu V. *Tumor-associated fibroblasts as a subset of mesenchymal stem cells*. Diaspora in Romanian scientific research and higher education Conference, Romanian Academy, Bucharest (Sep 22-23, 2010), Abstract book (Molecular Medicine) pp 48-49
  33. Bojin F, Tatu C, GAVRILIUC O, Gruia A, Cristea M, Tanasie G, Tatu C, Bunu C, Paunescu V. *Tumor-associated fibroblasts as an activated subtype of mesenchymal stem cells*. First European Conference on Mesenchymal Stem Cells, Toulouse, France (Nov 18-20, 2010) Abstract Book, pp. 51
  34. GAVRILIUC O, Bojin FM, Ordodi V, Mic FA, Rosca A, Cristea M, Tatu CA, Paunescu V. *Mesenchymal stem cells – linking immunomodulation with pancreatic regeneration in Type 1 diabetes*, 14th International Congress of Immunology, Kobe, Japan (Aug 2010), International Immunology 22 (suppl), pp 164, poster
  35. Bojin FM, Tatu CA, GAVRILIUC O, Ciuculescu F, Cristea M, Rosca A, Anghel S, Gruia A, Crisnic D, Tanasie G, Tatu C, Nistor D, Bunu C, Paunescu V. *In vitro characterization of tumor-associated fibroblasts as supportive network for cancer development*, 14th International Congress of Immunology, Kobe, Japan (Aug 23-27, 2010), International Immunology 22 (suppl), pp 167
  36. Bojin MF, GAVRILIUC O, Tatu CA, Bunu C, Paunescu V. *Tumor-associated fibroblasts recapitulate in vitro adipogenic differentiation pathway*, 11th International Congress on Obesity, Stockholm, Suedia (July 11-15, 2010), Obesity Reviews, pp 92-93
  37. Bojin F, GAVRILIUC O, Tatu C, Tanasie G, Tatu C, Nistor D, Crisnic D, Boleman A, Bunu C, Paunescu V. *Adipogenic differentiation pathway – gene expression profile*, National Conference of the Romanian Society of Physiological Sciences, Oradea, Romania (June 2-5, 2010), Fiziologia – Physiology, (suppl.) pp 33
  38. Tanasie G, Bojin F, Tatu CA, GAVRILIUC O, Tatu C, Nistor D, Ionita H, Bunu C, Ordodi V, Paunescu V. *In vitro characterization of epithelial-like cells induced from adult bone marrow derived mesenchymal stem cells*, National Conference of the Romanian Society of Physiological Sciences, Oradea, Romania (June 2-5, 2010), Fiziologia – Physiology, (suppl.) pp 13
  39. Paunescu V, Bojin F, Tatu CA, GAVRILIUC O, Rosca A, Tanasie G, Bunu C. *Tumor-associated fibroblasts as a functional immunosuppressive network in cancer development*, Immunology and Clinical Allergology Joint Meeting, Sibiu (April 28 - May 1, 2010), Abstract book pp. 22
  40. Bojin F, Tatu CA, GAVRILIUC O, Boleman A, Gruia A, Cristea M, Anghel S, Nistor D, Tatu C, Tanasie G, Bunu C, Paunescu V. *Adipocytes-induced changes in tumor microenvironment and cancer cells behavior*. Immunology and Clinical Allergology Joint Meeting, Sibiu (April 28 - May 1, 2010), Abstract book pp. 30
  41. Cristea M, Gruia A, Bojin F, Gai E, GAVRILIUC O, Tatu C, Paunescu V. *Functional studies and tumoral cells exposed to different concentration of Aristolochia Clematitis aqueous extracts*. Immunology and Clinical Allergology Joint Meeting, Sibiu (April 28 - May 1, 2010), Abstract book pp. 28
  42. Gruia A, Bojin F, Cristea M, Ordodi VL, GAVRILIUC O, Gai E, Anghel S, Rosca A, Tatu C, Paunescu V. *Immunophenotypic characterization of several tumoral cell lines and cytotoxicity evaluation of certain antitumoral compounds by Alamar Blue assay*. Immunology and Clinical Allergology Joint Meeting, Sibiu (April 28 - May 1, 2010), Abstract book pp. 28
  43. Bojin MF, GAVRILIUC O, Tatu CA, Tanasie G, Tatu C, Bunu C, Paunescu V. *Normal and abnormal gene expression in adipogenic differentiation pathway*. Academician Nicolae Cajal Symposium Vth Edition. „Translational Oncology, Cell Therapy, Virology” Romanian Academy library, Bucharest (April 15-16, 2010), Abstract book pp. 31
  44. Paunescu V, Bojin F, Tatu CA, GAVRILIUC O, Rosca A, Gruia A, Ciuculescu F, Tanasie G, Tatu C, Bunu C. *Tumor-associated fibroblasts involvement in cancer development*. Academician Nicolae Cajal Symposium Vth Edition. „Translational Oncology, Cell Therapy, Virology” Romanian Academy library, Bucharest (April 15-16, 2010), Abstract book pp. 5-6
  45. Tanasie G, Bojin F, Tatu CA, GAVRILIUC O, Tatu RF, Bunu C, Anghel S, Cristea M, Paunescu V. *In vitro induction of bone marrow derived mesenchymal stem cells in epithelial-like cells*. Academician Nicolae Cajal Symposium Vth Edition. „Translational Oncology, Cell Therapy, Virology” Romanian Academy library, Bucharest (April 15-16, 2010), Abstract book pp. 10

46. Bunu C, Matis B, Tatu CA, Bojin F, GAVRILIUC O, Tanasie G, Tatu C, Paunescu V. *Establishment of primary pulmonary fibroblasts culture and in vitro induction of smooth muscle phenotype*. Academician Nicolae Cajal Symposium Vth Edition. „Translational Oncology, Cell Therapy, Virology” Romanian Academy library, Bucharest (April 15-16, 2010), Abstract book pp. 25
47. Bojin F, Tatu C, GAVRILIUC O, Bunu C, Paunescu V. *Molecular mechanisms involved in regulation of adipogenesis in mesenchymal stem cells and tumor-associated fibroblasts*. 2nd International Symposium on Adipobiology and Adipopharmacology, Varna, Bulgaria (Oct 23-25, 2009), Adipobiology 1, pp 123
48. Matis B, Tatu C, Cernescu L, Bojin F, GAVRILIUC O, Tanasie G, Bunu C. *Airway fibroblasts phenotype markers after pro-inflammatory cytokines challenge*. ERS Vienna Congress (Sept 12-16, 2009), Eur Respir J Suppl 34(53; P901), pp 147
49. Bojin MF, Paunescu V, Tatu CA, Rosca A, GAVRILIUC O, Crisnic D, Bunu C, Tanasie G, Tatu C, Gruia A, Nistor D. *Tumor microenvironment induces changes in human mesenchymal stem cells behavior*. The XXXVI Congress of Physiological Sciences Kyoto, Japan, (July 27-Aug 1, 2009), J Physiol Sci 59, (suppl 1), pg. 443
50. Paunescu V, Bojin F, Tatu CA, GAVRILIUC O, Ciuculescu F, Gruia A, Tanasie G, Bunu C. *In vitro evaluation of mesenchymal stem cells to inhibit tumor progression*. 3rd International workshop on multipotent stromal cells (MSCs) for regenerative medicine and immune regulation (June 12-13, 2009) Frankfurt University Hospital, Germany, Abstract Book, pg. 2
51. Bojin MF, GAVRILIUC O, Tatu CA, Szilagyi D, Gruia A, Crisnic D, Tanasie G, Paunescu V. *Tumor microenvironment induces changes in human mesenchymal stem cells behavior*. Mesenchymal stromal cells and tumor microenvironment: an update, Montpellier, France (May 13-15, 2009), Abstract book, pp.14
52. GAVRILIUC O, Ciuculescu FM, Cristea M, Bojin FM, Tatu CA, Paunescu V *Expression of pluripotency transcription factors in mesenchymal stem cells is not indicative of their potential for differentiation* The XXth International Symposium on Morphological Sciences, Timisoara (Sept 12 – 16, 2008), oral presentation
53. GAVRILIUC O, Ciuculescu FM, Mirea FM, Tatu CA, Paunescu V *Susceptibility of induced pluripotent stem cells to oncogenic mutation*, CONSERT Labcourse, *Lentiviral vectors: concepts, practice, hope and reality*, Universite d’Evry-Val d’Essonne, Evry, France (June 29 – July 5, 2008), poster
54. Paunescu V, Deak E, Herman D, GAVRILIUC O, Siska IR, Tanasie G, Bunu C, Anghel S, Tatu CA, Oprea TI, Henschler R, Ruster B, Bistran R, Seifried E *In vitro differentiation of human mesenchymal stem cells to epithelial lineage*, CSHL 73rd Symposium: Control & Regulation of Stem Cells , Cold Spring Harbor Laboratory, NY, USA (May 28 – June 2, 2008) , poster
55. Mirea MF, Tanasie G, Siska IR, Deak E, Herman D, Anghel S, GAVRILIUC O, Bunu C, Paunescu V. *Mesenchymal stem cells – Epithelial cells in vitro differentiation pathways*. JDRF Center for Beta Cell Therapy, Training Course 2008, May 28-30, Gentofte, Denmark, Abstract volume, pg. 21
56. Paunescu Virgil, GAVRILIUC O, Tatu CA, Anghel S, Mirea F, Rosca A, Tanasie G, Cioaca R, Crisnic D, Paunescu V, Cristea M, Simionescu O, Vintila T *Genetic engineering of cancer stem cells in view of immune response modulation in tumours of non-viral origin*, ERA STEM Conference, Timisoara (Nov 8-10, 2007), Fiziologia – Physiology 17(55), pp 4, oral presentation
57. Mirea F, Nistor D, Tatu C, Tanasie G, Siska I, Anghel S, Plesca D, Cioaca R, GAVRILIUC O, Bunu C, Paunescu V. *Differentiation of mesenchymal stem cells towards different cell lineages under the influence of culture medium factors*. ERA STEM Conference, Timisoara (Nov 8-10, 2007), Fiziologia – Physiology 17(55), pp 44
58. Tanasie G, Tatu C, Bunu C, GAVRILIUC O, Tascu M, Igna C, Vasilco R, Cristea M, Paunescu V, Anghel S, Voicu A, Dema A, Paunescu Virgil *Combined bioimplants for osteoarticular reconstruction*, Viasan Conference, Sibiu (Oct 25-26, 2007), oral presentation
59. GAVRILIUC O, Ilie D, Mirea F, Paunescu V, Bunceanu M, Simona A, Tatu CA, Paunescu V. *Mesenchymal-epithelial transition during differentiation of hMSC into insulin producing cells*, Transdifferentiation to BetaCells, University of Bath, UK ( June 26-28 2007), poster
60. School scientific sessions, Timisoara: *Carnivorous Plants* (March 2005), *Antimicrobial Properties of Kefir Lactobacilli* (May 2004)