



Institute of Cellular Biology and Pathology - "Nicolae Simionescu"

CURRICULUM VITAE

Personal data

Name: Alina Constantin (Carale), Ph.D., Principal Investigator III

Born: July 10 th 1977, Bucharest, Romania

Mailing address: Institute of Cellular Biology and Pathology - „Nicolae Simionescu”,
8, B.P. Hasdeu Street, P.O. Box 35-14, Ro-050568, Bucharest, Romania
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Education, degrees and diplomas:

2014-2015: Postdoctoral Research Fellow- European Social Fund within the Sectorial Operational Program Human Resources Development 2007-2013 (ID: POSDRU/159/1.5/S/133391) Bucharest, Romania - postdoc supervisor Acad. Maya Simionescu

2010: Doctor Degree, Natural Science: Biology Domain, ICBP „NS”, Bucharest, Romania, PhD supervisor Acad. Maya Simionescu

2002: Master Degree in Biophysics, Faculty of Physics, University of Bucharest, Romania

2000: Bachelor's Degree in Physics, Faculty of Physics, University of Bucharest, Romania

1996: Baccalaureate "Victor Gomoiu" High School, Vanju-Mare, Mehedinti, Romania

Professional experience:

2008-Today - Principal Investigator III, Department of Pathophysiology and Pharmacology
Institute of Cellular Biology and Pathology "Nicolae Simionescu" (ICBP „NS")

2002-2010 - PhD Student, ICBP „NS"

2001 – 2008 - Research Assistant, ICBP „NS"

Membership in Scientific Societies:

- The Romanian Society for Cell Biology
- International Society of Regenerative Medicine and Surgery
- Healthy Nutrition Foundation
- European Atherosclerosis Society

Reviewer at:

2017 - Biochemia Medica

2015 - Clinical Chemistry and Laboratory Medicine

2020 - International Journal of Medical Sciences

Training stages and courses:

2005 - STSM Fellowship (1 month) - COST Action B17 with the proposal: "Analysis of adipocytes-conditioned media and studies on the regulation of adipocytes secretory function". Host: Juergen Eckel, German Diabetes Center, Institute of Clinical Biochemistry and Pathobiochemistry, Duesseldorf, Germany.

2002- Foundamental Base in Immunology - Romanian Society of Immunology

2001 - Fellowship (1 week) - at Semmelweis University, Hungary

International Workshops:

2012: Workshop of the FP7 "RAMSES" project: Reinforcement of the Adult stem cell research area through Mobility and Scientific networking between Egypt, Romania and Germany; 2010: 2nd International Workshop „On Route from Stem Cell Biology to Clinical Applications for Cardiovascular Regeneration"; 2009: The 30th Anniversary Workshop "30 Years on Route from Cell Biology to Molecular Medicine", and International Symposium "Molecular and metabolic dysfunction in diabetes" part of the COST - Action BM0602 "Adipose tissue: a key target for prevention of the metabolic syndrome"; 2007: International Symposium "Stem Cells as therapeutic alternative"; International workshop "Inflammation-dependent vascular remodeling in

atherosclerosis"; 2006: International Symposium „Recent advances in cardio-diabetology"; International Symposium "Cell and Molecular Biology for the Benefit of Cardiovascular Disease"; International Symposium "Molecular biomarkers of cardiovascular disease and diabetes"; 2005: International Symposium "Combating Cardiovascular Diseases and Diabetes"; International Symposium "New Insights in Molecular Medicine"; 2002: International Workshop "Cardiovascular Dysfunction in Hyperlipidemia and Diabetes" held within the framework of Center of Excellence of the European Community.

Awards:

2015 -The 4th International Symposium on Adipobiology and Adipopharmacology (ISAA), Bucuresti, 2012 - The Romanian Society for Diabetes, Nutrition and Metabolic Diseases and another from the Berlin-Chemie, Menarini Group and Eli Lilly "Agora Diabetologica".

2017- Prize for Poster Presentation to "22nd World Congress of International Federation for the Surgery of Obesity and Metabolic Disorders", London

* 'Scientific Achievements - Original Article' Award offered by Ministry for Education and Uefiscdi, PNCDI IV - Program 5.2 Human Resources- Subprogram 5.2.3-Awarding research results - Articles Web of Science (PRECISI) Competition 2023, PRECISI 2023 List 1- Award applications submitted for articles published in 2022-December 2023 for the paper 'Stem cell - derived extracellular vesicles reduce the expression of molecules involved in cardiac hypertrophy - in a model of human-induced pluripotent stem cell-derived cardiomyocytes' in *Frontiers in Pharmacology*, 2022, 13:1003684. (Alina Constantin, Ioana Karla Comarița, Nicoleta Alexandru, Alexandru Filippi, Florina Bojin, Mihaela Gherghiceanu, Alexandra Vilcu, Miruna Nemecz, Loredan Stefan Niculescu, Virgil Păunescu, Adriana Georgescu).

*'Scientific Achievements - Original Article' Award offered by Ministry for Education and Uefiscdi, PNCDI IV - Program 5.2 Human Resources- Subprogram 5.2.3- Awarding research results - Articles Web of Science (PRECISI) Competition 2023, PRECISI 2023 List 1- Award applications submitted for articles published in 2022-December 2023 for the paper 'VLA4 enhanced allogeneic endothelial progenitor cell-based therapy preserves aortic valve function in a mouse model of dyslipidemia and diabetes' in Special Issue "Targeted Therapies in Diabetes and Its Complications", *Pharmaceutics*, 14, 1077-1094, 2022, <https://doi.org/10.3390/pharmaceutics14051077>. (Alexandru Filippi, Alina Constantin, Nicoleta Alexandru, Cristina Ana Mocanu, Mihaela Loredana Vlad, Ioana Madalina Fenyo, Agneta Simionescu, Dan Teodor Simionescu, Ileana Manduteanu, Adriana Georgescu)

3. 'Scientific Achievements - Original Article' Award offered by Ministry for Education and Uefiscdi, PNCDI IV - Program 5.2 Human Resources- Subprogram 5.2.3- Awarding research results - Articles Web of Science (PRECISI) Competition 2023, PRECISI 2023 List 1- Award applications submitted for articles published in 2022-December 2023 for the paper 'Therapeutic potential of stem cell-derived extracellular vesicles on atherosclerosis-induced vascular dysfunction and its key molecular players' in *Frontiers in Cell and Developmental Biology*, 10:817180: 1-30, 2022, doi: 10.3389/fcell.2022.817180. eCollection 2022. (Ioana Karla Comarița, Alexandra Vilcu, Alina Constantin, Anastasia Procopciuc, Florentina Safciuc, Nicoleta Alexandru, Emanuel Dragan, Miruna Nemecz, Alexandru Filippi, Leona Chitoiu, Mihaela Gherghiceanu, Adriana Georgescu)

Managerial competence: Project manager for three national research grants; Collaborator at 12 national and two international research grants.

Research record: (1) 24 ISI articles (7 as first author and 17 as co-authors); (2) 4 articles ISI Thomson (2 as first author and 2 as co-authors); (3) 12 abstracts in ISI journals, (4) 5 oral presentations (at 3 national and 3 international conferences); (5) 30 poster communications at international conferences, and 10 at national conferences.

The published papers

ISI Journals:

Miruna Nemecz, Diana Simona Stefan, Ioana Karla Comarița, **Alina Constantin**, Gabriela Tanko, Cristian Guja, Adriana Georgescu. Microvesicle-associated and circulating microRNAs in diabetic dyslipidemia: miR-218, miR-132, miR-143, and miR-21, miR-122, miR-155 have biomarker potential. *Cardiovascular Diabetology*, 22(1):260-291, 2023. (IF=9.3)

Constantin A, Comarița IK, Alexandru N, Filippi A, Bojin F, Gherghiceanu M, Vilcu A, Nemecz M, Niculescu LS, Păunescu V, Georgescu A. Stem cell-derived extracellular vesicles reduce the expression of molecules involved in cardiac hypertrophy-In a model of human-induced pluripotent stem cell-derived cardiomyocytes. *Front Pharmacol*, 13, 1003684. 2022 (IF = 5.988)

Filippi A, **Constantin A**, Alexandru N, Mocanu CA, Vlad ML, Fenyó IM, Simionescu A, Simionescu DT, Manduteanu I, Georgescu A. VLA4-Enhanced Allogeneic Endothelial Progenitor Cell-Based Therapy Preserves the Aortic Valve Function in a Mouse Model of Dyslipidemia and Diabetes. *Pharmaceutics*, 14, 1077, 2022 (IF = 6.525)

Comarița IK, Vilcu A, **Constantin A**, Procopciuc A, Safciuc F, Alexandru N, Dragan E, Nemecz M, Filippi A, Chițoiu L, Gherghiceanu M, Georgescu A. Therapeutic Potential of Stem Cell-Derived Extracellular Vesicles on Atherosclerosis-Induced Vascular Dysfunction and Its Key Molecular Players. *Front Cell Dev Biol*, 10:817180, 2022 (IF 6.684)

Constantin A, Filippi A, Alexandru N, Nemecz M, Georgescu A. Extracellular Vesicles from Adipose Tissue Stem Cells in Diabetes and Associated Cardiovascular Disease; Pathobiological Impact and Therapeutic Potential. *Int J Mol Sci*. 2020 Dec 16;21(24):9598. (IF 4.556)

Filippi A, **Constantin A**, Alexandru N, Voicu G, Constantinescu CA, Rebleanu D, Fenyó M, Simionescu D, Simionescu A, Manduteanu I, Georgescu A. Integrins $\alpha 4\beta 1$ and $\alpha V\beta 3$ are Reduced in Endothelial Progenitor Cells from Diabetic Dyslipidemic Mice and May Represent New Targets for Therapy in Aortic Valve Disease. *Cell Transplant*. 2020 doi: 10.1177/0963689720946277 (IF = 3.341)

Picu A., Petcu L., Stefan D. S., Gradisteanu Pircalabioru G., Mitu M., Bajko D., Lixandru D., Guja C., Savu O., Pantea Stoian A., **Constantin A**, Smeu B., Copaescu C., Chifiriu C. M., Ionica E., Ionescu-Tîrgoviște C.. Evolution of Inflammatory and Oxidative Stress Markers in Romanian Obese Male Patients with Type 2 Diabetes Mellitus after Laparoscopic Sleeve Gastrectomy: One Year Follow-Up. *Metabolites*. 28;10(8):308, 2020. (IF= 3.303)

Alexandru N, **Constantin A**, Nemecz M, Comarița IK, Vilcu A, Procopciuc A, Tanko G, Georgescu A. Hypertension Associated With Hyperlipidemia Induced Different MicroRNA Expression Profiles in Plasma, Platelets, and Platelet-Derived Microvesicles; Effects of Endothelial Progenitor Cell Therapy. *Front Med (Lausanne)*. 2019 Dec 3;6:280. doi: 10.3389/fmed.2019.00280. eCollection 2019. (IF= 3.303)

Alexandru N, Safciuc F, **Constantin A**, Nemecz M, Tanko G, Filippi A, Dragan E, Bădilă E, Georgescu A. Platelets of Healthy Origins Promote Functional Improvement of Atherosclerotic Endothelial Progenitor Cells. *Front Pharmacol*. 2019 Apr 24;10:424. doi: 10.3389/fphar.2019.00424. eCollection 2019. PMID: 31068820 (IF = 4.225)

Constantin A, Dumitrescu M., Nemecz M., Picu A., Smeu B., Guja C., Alexandru N., Georgescu A., Tanko G. "Sera of Obese Type 2 Diabetic Patients Undergoing Metabolic Surgery Instead of Conventional Treatment Exert Beneficial Effects on Beta Cell Survival and Function: Results of a Randomized Clinical Study" *Obes Surg*. 2019 Jan 30. doi: 10.1007/s11695-019-03710-0. (IF = 3.89)

M. Nemecz, **A. Constantin**, M. Dumitrescu, N. Alexandru, A. Filippi, G. Tanko, A. Georgescu. The distinct effects of palmitic and oleic acid on pancreatic beta cell function: the elucidation of associated mechanisms and effector molecules. *Front. Pharmacol*. 9:1554. 2019, doi: 10.3389/fphar.2018.01554. (IF = 3.83)

L. Iosif, D. Lixandru, L. Gaman, M. Ilie, B. Smeu, D.S. Stefan, L. Petcu, A. Picu, **A. Constantin**, C. Ionescu-Tîrgoviște, C. Guja, C. Copăescu, I. Stoian. Oxidative stress profile and type 2 diabetes remission at 6 months after sleeve gastrectomy versus conservatory treatment. *FARMACIA*, 2019, Vol. 67, 1, <https://doi.org/10.31925/farmacia.2019>. (IF = 1.507)

Popa MA, Mihai MC, **Constantin A**, Șuică V, Țucureanu C, Costache R, Antohe F, Dubey RK, Simionescu M. Dihydrotestosterone induces pro-angiogenic factors and assists homing of MSC into the cardiac tissue. *J Mol Endocrinol*. 2018 Jan;60(1):1-15, (IF = 4.869)

Constantin A, Dumitrescu M, Mihai Corotchi MC, Jianu D, Simionescu M. CO2 laser increases the regenerative capacity of human adipose-derived stem cells by a mechanism involving the redox state and enhanced secretion of pro-angiogenic molecules. *Lasers Med Sci*. 2017 Jan;32(1):117-127. doi: 10.1007/s10103-016-2093-6. (IF = 2.299)

Nicoleta Alexandru, Elisabeta Badila, Ana Costa, **Alina Constantin**, Daniel Cochior, Adriana Georgescu. Microparticles: From biogenesis to biomarkers and diagnostic tools in cardiovascular disease. *Current Stem Cell Research & Therapy*. (Curr Stem Cell Res Ther)12(2):89-102, 2017. (IF = 2.684)

Ciotu IM, **Constantin A**, Voinea L, Atansiu V. Matrix metalloproteinase and their inhibitors concentration and activity variations in aqueous humor and plasma of glaucoma patients. *Revista de Chimie*. 2017; 68:1829-1832. (IF = 1.232)

Simion V, Stan D, Constantinescu CA, Deleanu M, Dragan E, Tucureanu MM, Gan AM, Butoi E, Constantin A, Manduteanu I, Simionescu M, Calin M. Conjugation of curcumin-loaded lipid nanoemulsions with cell-penetrating peptides increases their cellular uptake and enhances the anti-inflammatory effects in endothelial cells. *J Pharm Pharmacol*. 2016 Feb;68(2):195-207, (IF = 2.39)

Manea SA, **Constantin A**, Manda G, Sasson S, Manea A. Regulation of Nox enzymes expression in vascular pathophysiology: focusing on transcription factors and epigenetic mechanisms. *Redox Biology*. vol 25 (5), pag 358-366, 2015. (IF = 6.337)

Manea A, Manea SA, Gan AM, Constantin A, Fenyo IM, Raicu M, Muresian H, Simionescu M. Human monocytes and macrophages express NADPH oxidase 5; a potential source of reactive oxygen species in atherosclerosis. *Biochem Biophys Res Commun*. 22;461(1):172-9, 2015 (IF = 2.985)

Georgescu A, Popov D, Constantin A, Nemecz M, Alexandru N, Cochior D, Tudor A. Dysfunction of human subcutaneous fat arterioles in obesity alone or obesity associated with Type 2 diabetes. *Clin Sci (Lond)*. 2011 May;120(10):463-72. doi: 10.1042/CS20100355 (IF = 4.317)

A. Constantin, G. Costache, A. Sima, C. Glavce, M. Vladica, D. Popov. Leptin G-2548A and leptin receptor Q223R gene polymorphisms are not associated with obesity in Romanian subjects *Biochemical and Biophysical Research Communications*. 391: 282-286, 2010. (IF = 2.548)

N. Alexandru, **A. Constantin**, D. Popov. Carbonylation of platelet proteins occurs as consequence of oxidative stress and thrombin activation, and is stimulated by ageing and type 2 diabetes. *Clin Chem Lab Med*. 46(4): 528-536, 2008 (IF = 1.741)

F. Safciuc, **A. Constantin**, A. Manea, M. Nicolae, D. Popov, M. Raicu, D. Alexandru, E. Constantinescu. Advanced glycation end products, oxidative stress and metalloproteinases are altered in the cerebral microvasculature during aging. *Current Neurovascular Research* 4(4):228-234, 2007. (IF = 2.34)

A. Constantin, E. Constantinescu, M. Dumitrescu, D. Popov. Effects of ageing on carbonyl stress and glutathione antioxidant defence in RBCs of obese type II diabetic patients. *Journal of Cellular and Molecular Medicine*. 9: No 3, 683 – 691, 2005. (IF = 3.606)

D.L.Radu, A.Georgescu, C.Stavaru, **Carale A.**, D. Popov. Double transgenic mice with Type 1 diabetes mellitus develop somatic, metabolic and vascular disorders. *J. Cell. Mol. Med.*, 8: 349-358, 2004. (IF = 3.606)

Journals indexed in international databases:

M. Nemecz, M. Dumitrescu, **A. Constantin**, I. Titorencu, G. Tanko, D. Popov. Catalase reduces PDGF-mediated vascular SMCs proliferation in high glucose conditions. *Annals of RSCB*, XIX(3): 95-103, 2015.

Dumitrescu M., Costache G., **Constantin A.**, Popov L-D. Zofenopril functions as antioxidant, correcting the renal oxidative damages in a rat model of L-NAME induced hypertension. *Annals of RSCB* vol XVIII, issue 1, pp 11- 21, 2013.

A. Constantin, G. Costache. The emerging role of adipose tissue-derived leptin in inflammatory and immune responses in obesity: an update. *Proceedings of the Romanian Academy*. vol 6: 187-190, 2010.

A. Constantin, D. M. Cheta, D. Popov. Effects of silymarin on red blood cells osmotic fragility in obesity associated with Type 2 diabetes. *Proceedings of the Romanian Academy*. Vol. 6: 187-190, 2004

Chapters in monograph:

M. Gherghiceanu, N. Alexandru, S. L.Magda, **A. Constantin**, M. Nemecz, A. Filippi, O. C. Ioghen, L. C. Ceafalan, Florina Bojin, Gabriela Tanko, Virgil Paunescu, Dragos Vinereanu, Ewa Stepien, Adriana Georgescu. Chapter's Title: Extracellular Vesicles As Valuable Players In Diabetic Cardiovascular Diseases. Book's Title: Extracellular Vesicles, Book edited by Dr.

Ana Gil De Bona, IntechOpen, ISBN 978-1-78923-944-7, pp. 1-25, 2019.

L. C. Ceafalan, O. C. Ioghen, D. S. Marta, **A. Constantin**, N. Alexandru, M. Nemecz, G. Tanko, A. Filippi, S. L. Magda, F. Bojin, V. Paunescu, D. Vinereanu, A. Georgescu, M. Gherghiceanu. Chapter's Title: Extracellular Vesicles as Risk Factor in Neurodegenerative Diseases. Book's Title: Extracellular Vesicles, Book edited by Dr. Ana Gil De Bona, IntechOpen, ISBN 978-1-78923-944-7, pp. 1-21, 2019.

Patents:

1. Alexandru Filippi, Loredana Antonescu, Alina Constantin, Cristina Constantinescu, Nicoleta Alexandru, Adriana Georgescu. Procedeu de obtinere a unor celule progenitoare endoteliale modificate genetic. Cerere de Brevet de Inventie, OSIM Nr. A/00284 din 25.05.2020.
2. Alexandru Filippi, Nicoleta Alexandru, Alina Constantin, Karla Comarita, Alexandra Vilcu, Anastasia Procopciuc, Adriana Georgescu „Procedeu de obtinere a veziculelor extracelulare modificate sa încapsuleze siARN anti- Smad2/3 și veziculele extracelulare rezultate”, Cerere de Brevet de Inventie, OSIM Nr. A/100017 din 20.01.2021.

Grants:

Project manager of following national projects:

1. **2002:** National Consortium: Institute of Diabetes, Nutrition and Metabolic Diseases “Prof. Dr N. Paulescu”, “Cantacuzino” Institute and Institute of Cellular Biology and Pathology “N. Simionescu”- Effect of antioxidants on carbonyl stress modulation in diabetes”.
2. **2004-2006:** Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN- grant no. 422/ 6.10.2004. Adiponectin as mediator of the insulin activated intracellular signaling - clinical implications in obesity associated with type 2 diabetes”.
3. **2007-2008:** Grant from Ministry of Education, Research and Youth, CNCSIS, National Program for Research-Development and Innovation 2 (PNCDI-2), Program Human Resources/ Research Projects for young PhD. Students- TD type- Code: TD-448, Grant no. 69GR/11.05.2007, Tema 6. Strategies to combat cardiovascular complications in obesity: the anti-inflammatory effect of Rosiglitazone in the recovery of atheroma instability and endothelial dysfunction caused by adipokines.

Collaborator of following national projects:

1. **2002 – 2005:** Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN- The pharmacological properties and the cellular mechanisms involved in the effect of nebivolol in the renal artery in diabetes; the experimental data.
2. **2003 – 2004:** Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN- Possibilities for reestablishment of vascular dysfunction and biochemical changes in diabetes and atherosclerosis.
3. **2003 – 2005:** Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN-Impact of obesity on diabetes and cardiovascular diseases generation in urban communities in Romania- a population, pathophysiological and genetic study.
4. **2003 – 2005:** Grant Awarded By: Romanian Ministry Of Research - National Research Program For Fundamental Research VIASAN- The studies on the cerebral vasculature in aging.
5. **2004 – 2006:** Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN: Adiponectin - the mediator in the intercellular signaling activated by insulin; the clinical involvements in the obesity associated with type 2 diabetes
6. **2004-2006:** Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN- The effect of the enoxaparin (a low molecular weight heparin) in the reestablishment of the endothelial vascular dysfunctions in aging and in diabetes; the involvement of the mitogen-activated protein kinase evidenced by changes in the expression of c-fos gene and transcription factor AP-1.
7. **2005 - 2006:** Grant from Romanian Academy - Cellular senescence in the kidneys- a genetically determined process or a consequence of oxidative stress and nitrosative stress?
8. **2005 – 2008:** Grant Awarded By: Romanian Ministry of Research - National Research Program for Fundamental Research “Excellence Research Project” - The alteration of the cellular and molecular mechanisms and of gene expression in the cardiovascular disease and diabetes/ obesity, the major alteration of the metabolic syndrome – the fundamental and clinical researches.

- 9. 2008-2011:** COST Programme EU COST Action BM 0602. Adipose tissue cells dialogue in obesity, diabetes and inflammation; search for molecules of pharmacological potential in reducing adipose tissue inflammatory proteins.
- 10. 2011-2014:** Grant of the Romanian National Authority for Scientific Research and Innovation, CNCSIS-UEFISCDI, Human Resources Program/ TE, Project number PNII-TE 26/2011-2014 - Investigation of molecular mechanisms of endothelin system in diabetes; development of new pharmacological strategies to improve vascular function.
- 11. 2015-2017:** Grant of the Romanian National Authority for Scientific Research and Innovation, CNCS-UEFISCDI, Human Resources Program / Project number PN-II-RU-TE-2014-4-0525: Microparticles as intracellular delivery strategies for microRNAs and potential therapies for atherosclerotic vascular disease; Grant no 79/01.10.2015; - the project was funded with: 550 000 lei
- 12. 2016-2020:** MNE – NASRI (INTERMEDIATE BODY FOR RESEARCH): COMPETITIVENESS OPERATIONAL PROGRAMME 2014-2020 PRIORITY AXIS 1 – RESEARCH, TECHNOLOGICAL DEVELOPMENT AND INNOVATION (RD&I) TO SUPPORT ECONOMIC COMPETITIVENESS AND BUSINESS DEVELOPMENT. Action 1.1.4 Attracting high-level personnel from abroad in order to enhance the RD capacity. Project Title: Targeted therapies for diabetes - related aortic valve disease. Contract no. 115/13.09.2016/ Project Code: 104362- the project was funded with: 8657500 lei
- 13. 2018-2020:** Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Complex Projects Completed in Consortia CDI (PCCDI), under Program 1. Developing national CD, Subprogram 1.2. Institutional performance - "Institutional Development Project". Project no. PN-III-P1-1.2-PCCDI-2017-0527/Contract no. 83 PCCDI/2018 - Project title: Development of BIONanotechnologies based on extracellular Vesicles for early diagnosis, prognosis and therapy of Atherosclerotic disease; - Project acronym: BIOVEA.
- 14. 2018-2020:** Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Complex Projects Completed in Consortia CDI (PCCDI), under Program 1. Developing national CD, Subprogram 1.2. Institutional performance - "Institutional Development Project". Project no. PN-III-P1-1.2-PCCDI-2017-0797/Contract no. 66 PCCDI/2018 - Project title: Pathogenic mechanisms and personalized treatment in pancreatic cancer using multi-omics technologies. - Project acronym: PANCNGS
- 15. 2018-2020:** Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Complex Projects Completed in Consortia CDI (PCCDI), under Program 1. Developing national CD, Subprogram 1.2. Institutional performance - "Institutional Development Project". Project no. PN-III-P1-1.2-PCCDI-2017-0749/Contract no. 45 PCCDI/2018, Project title: Bioactive nanostructures for innovative therapeutic strategies. - Project acronym: NANO-LIFE
- 16. 2023-2026:** Grant of the Ministry of Research, Innovation and Digitization of Romania - Romania's National Recovery and Resilience Plan. Component C9. SUPPORT FOR THE PRIVATE SECTOR, RESEARCH, DEVELOPMENT AND INNOVATION - "18. Development of a program to attract highly specialised human resources from abroad in research, development and innovation activities" (PNRR /2022/C9/MCID/I8)- Project Code" 93.
Project title: New nanotherapeutic strategies for cardiac fibrosis targeting the mechanisms underlying the fibroblast to myofibroblast transition; Project Acronym: HeartCure; Project Manager: Dr. ROSTYSLAV BILYY