



**Institutul de Biologie si Patologie Celulara "N. Simionescu"**

## **CURRICULUM VITAE**



### **Date personale**

**Nume:** **Adriana Georgescu**, Doctor Abilitat, Biofizician, Cercetator Stiintific Principal Gradul I, Coordonatorul Departamentului de Patofiziologie si Farmacologie din Institutul de Biologie si Patologie Celulara 'Nicolae Simionescu' (IBPC 'NS'), Bucuresti, Romania.

**Nascuta:** 22 ianuarie 1971, Calinesti-Topoloveni, Arges, Romania

**Casatorita in Bucuresti, Romania**

**Adresa:** Institutul de Biologie si Patologie Celulara "Nicolae Simionescu", Bucuresti, Romania

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### **Studii**

1989 - Bacalaureat. Liceul Teoretic Ion Mihalache, Topoloveni, Arges

1995 - Licenta in Fizica. Universitatea din Bucuresti, Facultatea de Fizica, Specializare Biofizica

1996 - Master in Biofizica, Universitatea din Bucuresti, Facultatea de Fizica, Specializare Biofizica

2005 - Doctor, cu distinctia Summa Cum Laude, in Stiintele Naturii: Domeniul Biologie

2010-2013 - Postdoctorand in Institutul de Biologie si Patologie Celulara "Nicolae Simionescu",

Bucuresti, Romania si in Institutul de Chimie Macromoleculara "Petru Poni", Iasi, Romania, Domeniul de cercetare: Biomateriale; Subdomeniul stiintific: Materiale pentru inginerie tisulara si implantologie

2014 (din ianuarie) - Doctor abilitat (Conducator de doctorat); Titlul tezei de abilitare: Disfunctia

endoteliala vasculara: factori de risc cardiovascular, noi biomarkeri si terapii.

### **Experienta profesionala**

1996 - 1999 - *Asistent de cercetare* in Institutul de Biologie si Patologie Celulara "Nicolae Simionescu"

1997 - 2004 - *Doctorand*, Institutul de Biologie si Patologie Celulara "Nicolae Simionescu"

Departamentul: Disfunctii Vasculare in Diabet si Obezitate

1999 - 2002- *Cercetator stiintific*, Institutul de Biologie si Patologie Celulara "Nicolae Simionescu"

2002 - 2006 - *Cercetator Stiintific Principal grad III*, Institutul de Biologie si Patologie Celulara

"Nicolae Simionescu"

2006 - 2013 - *Cercetator Stiintific Principal grad II*, Institutul de Biologie si Patologie Celulara "Nicolae Simionescu", Departamentul: Patofiziologie si Farmacologie

- 2012 (iulie)-2016 (mai) - Conducătorul grupului de cercetare în cadrul Departamentului de

Patofiziologie si Farmacologie, Institutul de Biologie si Patologie Celulara "Nicolae Simionescu"

- 2013 (din noiembrie)-prezent - *Cercetator Stiintific Principal grad I*, Institutul de Biologie si Patologie

Celulara "Nicolae Simionescu", Departamentul: Patofiziologie si Farmacologie

- 2014 (din ianuarie)-prezent - *Conducator de doctorat*, Institutul de Biologie si Patologie Celulara

"Nicolae Simionescu"

- 2016 (mai)- prezent - Coordonatorul Departamentului de Patofiziologie si Farmacologie, Institutul de Biologie si Patologie Celulara 'Nicolae Simionescu', Bucuresti

### **Responsabilitati institutionale**

- martie 2011- septembrie 2012- Membru al Comisiei de Specialitate de Biologie, Biochimie si Farmacie din cadrul Consiliului National de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare (CNATDCU)-Ministerul Educatiei si Cercetarii, Bucuresti, Romania;
- 2016 (mai)- prezent - Membru al Consiliului Stiintific al Institutului de Biologie si Patologie Celulara 'Nicolae Simionescu', Bucuresti
- 2020 (Iulie) – prezent - Membru al Comisei de Etica a Institutului de Biologie si Patologie Celulara 'Nicolae Simionescu', Bucuresti
- 2020-2024- Membru al Comisiei de Specialitate de Biologie si Biochimie din cadrul Consiliului National de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare (CNATDCU)-Ministerul Educatiei si Cercetarii, Bucuresti, Romania;

### **Stagii de cercetare**

- **2001 (1 luna)** Frederic Alexander Universitat, Erlangen, Germany-*Detection of DNA-bound advanced Glycation End-products - High performance liquid chromatography (HPLC) technique-* **Dr. Monika Pischetsrieder**
- **2006 (1 luna)** Cardiovascular Research Center, INSERM - UMR970, Paris, France - *Circulating Microparticle Isolation and Analysis - flow cytometry technique-* **Dr. Chantal M. Boulanger**
- **2007 (2 luni)** Institute of Physiology and Biophysics, Aarhus University, Aarhus, Denmark-*Downregulation of L-type calcium channel expression in rat small mesenteric arteries with siRNA transfection in vivo-wire, culture and pressure myograph techniques and in vivo measurements of intracellular calcium-* **Dr. Christian Aalkjaer**
- **2011 (1 saptamana)**- Centre of Advanced Researchers for Bio-nanoconjugates and Biopolymers - 'Petru Poni' Institute of Macromolecular Chemistry, Iasi, Romania - Scanning electron microscope technique - **Dr. Mariana Pinteala**
- **2012 (2 saptamani)**-University Medical Center, Dept. Pathology and Medical Biology, Groningen, Netherlands-*Laser MicroDissection (LMD) System (on glomeruli and arteries), RNA isolation and integrity, cDNA synthesis and RT-qPCR* - **Dr. Grietje Molema**
- **2012 (1 luna)** - Portuguese Institute of Oncology. Department of Angiogenesis, Faculty of Medicine, University of Lisbon, Lisbon, Portugal - *HUVEC and HL60 cultures, microparticles isolation from cell cultures, miRNA Isolation from MPs and RT-qPCR, Bioanalysis of miRNAs, fluorescence in situ hybridization-* **Dr. Sérgio Dias**
- **2012 (1 luna)** - Queen's University Belfast. Centre for Vision & Vascular Science Belfast (Northern Ireland, UK) - *endothelial progenitor cell (EPC) isolation from peripheral blood; early and late EPC cultures; microparticles Isolation from EPC cultures; confocal microscopy-* **Dr. Alan Stitt**
- **2012 (1 luna)** - Center for Applied Medical Research (CIIMA), University of Navarra, Division of Cardiovascular Sciences; Atherothrombosis, Atherosclerosis and Inflammation Department, Pamplona, Spain - *thromboelastometry (ROTEM), mouse model of thromboembolic stroke, mouse tail bleeding model, flow cytometry, isolation and purification of microparticles from plasma of TAFI knockout mice after ischemic stroke model, fibrinolytic activity of microparticles, enzymatic kinetics, isolation of Human Umbilical Vein Endothelial Cells (HUVEC), immunohistochemistry for brain hemorrhage and infarct size.* - **Dr. Jose Antonio Páramo**

### **Atributii stiintifice**

- Coordonator stiintific pentru lucrari de licenta/disertatie, teze de doctorat;
- Evaluator la revistele stiintifice internationale: *European Journal of Pharmacology; American Journal of Hypertension; Pharmaceutical Research; Scientia Pharmaceutica; Free Radical Research; Diabetes/Metabolism Research and Reviews; Cell Biochemistry and Biophysics; Acta Diabetologica; Acta Pharmacologica Sinica; Central European Journal of Biology; Vascular Health and Risk Management (Dove Medical Press); Journal of Inflammation Research (Dove Medical Press); Diabetes, Metabolic Syndrome and Obesity (Dove Medical Press); Drug Design Development and Therapy (Dove Medical Press); Hypertension Research; Cardiovascular Diabetology; BMC Neurology; World Journal of Diabetes; Journal of Diabetes and Its Complications; Journal of Cardiology and Therapy; World Journal of Hematology; World Journal of Cardiology; Journal of Cardiovascular Pharmacology; Libertas Academica Journals (Bone and Tissue Regeneration Insights, Biomarker Insights, Drug Target Insights, Clinical Medicine Reviews in Cardiology, Clinical Medicine Reviews in Vascular Health, Cell & Tissue Transplantation & Therapy, Cell Communication Insights, Clinical Medicine Insights); World Journal of Stem Cells; World Journal of Clinical Pediatrics; Journal of Stem Cell Therapy and*

*Transplantation; Journal of Stem Cells Research, Reviews & Reports; F1000 Faculty Reviews; Scientifica; Molecular Life; Endocrine; Experimental Biology and Medicine; PLOS ONE; Diabetes; Diabetes, Obesity and Metabolism; Molecular and Cellular Endocrinology; Journal of Translational Medicine; Annals of Translational Medicine; 3 Biotech; Diabetes and Vascular Disease Research; Journal of Molecular Endocrinology; FASEB Journal; International Journal of Molecular Sciences; Nutrition Research; Frontiers: in Cardiovascular Medicine, -in Pharmacology, -in Immunology, -in Physiology; Journal of Cellular and Molecular Medicine; Scientific Reports – Nature; Acta Physiologica; Cells, Biomedicines; BIOCELL; The Journal of Nutritional Biochemistry; Reviews in Endocrine and Metabolic Disorders; International Journal of Nanomedicine; Journal Of Extracellular Vesicles.*

•Expert evaluator pentru proiecte nationale si Internationale: Nationale: • Human Resources/projects: PD/TE/PTE (2011/2012/2019/2020/2021); • 'Joint research projects' – Collaboration Romania-France (2013); • Exploratory Workshops (WE) (2011); • Competition Solutions-2020-1- SARS-CoV-2, UEFISCDI; • Fulbright senior postdoctoral award competition for 2017-2018; • FULBRIGHT STUDENT AWARD COMPETITION-ACADEMIC YEAR 2021-2022; Internationale: • Ministry of Science, Education and Sports (MSES) of the Republic of Croatia and the first Croatian Marie Curie FP7-PEOPLE-2011-COFUND program – NEWFELPRO (2015); • WHRI-ACADEMY fellowship programme: London, United Kingdom (2015/2016); • 'SONATA and PRELUDIUM Grants for the Executive Government Agency of the National Science Center, Poland' (2015); • The 5<sup>th</sup> Call for Proposals for post-doctoral researchers of the EU-funded William Harvey International Translational Research Academy (WHRI-ACADEMY) London, United Kingdom (2016);

•Editor asociat si evaluator pentru jurnalul Frontiers in Cardiovascular Medicine/Section: Atherosclerosis and Vascular Medicine -IF=6.05

• Membru in editorial board al jurnalelor stiintifice internationale: • Biomolecules (ISSN 2218-273X; CODEN: BIOMHC)–ISI-IF=6.064; • Frontiers in Cardiovascular medicine-ISI-IF=5.846; • World Journal of Diabetes–ISI-IF=5.370; •Journal of Integrative Neuroscience- ISI -IF=1.664; • Journal of Cardiology and Therapy; • Journal of Stem Cells Research, Reviews & Reports; • International Journal of Hematology Research; • Pharmacologia; • Journal of Stem Cell Therapy and Transplantation; • Current Reviews in Clinical and Experimental Pharmacology (Former:Current Clinical Pharmacology);

•Membra a unor societati stiintifice: • Societatea Romana de Biologie Celulara; • Societatea Romana pentru Biologia Dezvoltarii; • Societatea de Biochimie; • Societatea Nationala de Medicina si Chirurgie Regenerativa; • Fundatia pentru Alimentatie Sanatoasa; •Societatea Romana de Hipertensiune; • Societatea Europeana de Ateroscleroza; Membra in Grupul de Studiu EASD pentru Diabet si Boli Cardiovasculare (D&CVD); • Organizatia Europeana de Biologie Vasculara (EVBO); • Societatea Europeana de Cardiologie (ESC): Membra In Grupul de Studiu pe Ateroscleroza si Biologie Vasculara.

#### **Coordonare stiintifica - teze de licenta/teze de disertatie**

**2005 – 2006** - Coordonator stiintific – teza de disertatie cu titlul: Biologia celulara a arteriolelor de rezistenta din tesutul adipos uman in obezitate si rezistenta la insulina - in colaborare cu Universitatea din Bucuresti, Facultatea de Fizica, Specializare Biofizica – **masterand Ana Maria Constantin**

**2019 - 2020** – Coordonator stiintific – teza de disertatie cu titlul: Studiul disfuncțiilor vasculare intr-un model animal experimental de ateroscleroza – in colaborare cu Universitatea din Bucuresti, Facultatea de Biologie, Specializare Biologie Experimentală – **masterand Ioana-Karla Comarița**

**2019 - 2020** - Coordonator stiintific – teza de disertatie cu titlul: Dezvoltarea unui model animal de ateroscleroza pentru investigarea hipertrofiei cardiace – in colaborare cu Universitatea din Bucuresti, Facultatea de Biologie, Specializare Biochimie – **masterand Alexandra Vilcu**

**2019 - 2020** - Coordonator stiintific – teza de disertatie cu titlul: Rolul canalelor TRPM8 in raspunsul inflamator al celulelor cancerigene pancreatice umane (PANC-1) – in colaborare cu Universitatea din Bucuresti, Facultatea de Biologie, Specializare Biochimie – **masterand Anastasia Procopciuc**

#### **Coordonare stiintifica - teze de doctorat**

**2018-2020** - Coordonator stiintific – teza de doctorat cu titlul: INGINERIA TISULARA A TESUTULUI ADIPOS VASCULARIZAT IN VITRO SI IN VIVO - Doctorand: Vitalie Rotari

**2020-2023** - Coordonator stiintific – teza de doctorat cu titlul: HIPERTROFIA CARDIACĂ ȘI DISFUNCȚIA MITOCONDRIALĂ ÎN ATEROSCLEROZĂ; MECANISME IMPLICATE ȘI STRATEGII TERAPEUTICE - Doctorand: Alexandra Vilcu

**2020-2023** - Coordonator științific - teza de doctorat cu titlul: AFECTAREA PERETELUI VASCULAR ÎN BOALA CARDIOVASCULARĂ ATEROSCLEROTICĂ; MECANISME MOLECULARE ȘI ABORDĂRI TERAPEUTICE - Doctorand: Ioana-Karla Comarița

**2020-2023** - Coordonator științific - teza de doctorat cu titlul: ROLUL VEZICULELOR EXTRACELULARE ÎN REGLAREA FUNCȚIEI CELULELOR BETA PANCREATICE ÎN DIABET; ELUCIDAREA MECANISMELOR IMPLICATE - Doctorand: Anastasia Procopciuc

#### **Membru in comisii de examene/abilitare**

- Universitatea Bucuresti, Facultatea de Biologie, Departamentul de Anatomie, Fiziologie si Biofizica
- Universitatea de Medicina si Farmacie Victor Babes, Timisoara - Facultatea de Medicină-Departamentul III - Științe Funcționale, Disciplina de Imunologie, Alergologie și Biologie
- Institutul Oncologic "Prof. Dr. Alexandru Trestioreanu", Bucuresti

#### **Perfomanta Profesionala**

- **Web of Science Core Collection publications:** H-index=20; Sum of Times Cited =1067

- **Scopus:** H-index=20; Sum of Times Cited =1151

- **Google Scholar:** H-index=24; Sum of Times Cited =1737

**Adriana Georgescu a publicat:** ● 44 de articole științifice ISI in calitate de autor principal si 15 in calitate de coautor; ● 13 de articole științifice BDI in calitate de autor principal si 5 de coautor; ● 3 carti si 4 capitole de carte ca autor principal; ● 1 capitol de carte in calitate de coautor; ● 38 de rezumate în reviste ISI (28 ca autor principal); ● 1 articole de ziar științific ca autor principal; ● a editat un „Special Issue” la o editura internaționala de prestigiu.

De asemenea, trebuie menționate: ● 4 prezentări orale la universități (institute) din străinătate; ● 28 prezentări orale la conferințe internaționale si 21 la conferințe naționale; ● 124 comunicări cu poster la conferințe internaționale și 21 la conferințe naționale; ● 7 premii internaționale si 34 nationale; ● 9 cursuri internaționale.

#### **Capacitate Manageriala**

- Director de proiect pentru 13 granturi naționale și 2 internaționale
- Mentor pentru 2 proiecte de cercetare postdoctorală (PD)
- Colaborator la 23 granturi naționale și 7 internaționale.

#### **Brevete**

- Procedeu de obtinere a unor celule progenitoare endoteliale modificate genetic. Cerere de Brevet de Inventie, OSIM Nr. A/00284 din 25.05.2020. Autori: Alexandru Filippi, Loredana Antonescu, Alina Constantin, Cristina Constantinescu, Nicoleta Alexandru, **Adriana Georgescu**

- Procedeu de obținere a veziculelor extracelulare modificate. Cerere de Brevet de Inventie, OSIM Nr. A/00017 din 20.01.2021. Autori: Alexandru Filippi, Nicoleta Alexandru-Moise, Alina Constantin, Karla Comarița, Alexandra Vilcu, Anastasia Procopciuc, **Adriana Georgescu**

## **LISTA LUCRARILOR PUBLICATE SI COMUNICATE**

### **Lucrari publicate**

#### **Jurnale ISI cu factor de impact**

1. **A. Georgescu**, D. Popov. AGE-dependent accumulation of advanced glycation endproducts is accelerated in combined hyperlipidemia and hyperglycemia, a process attenuated by L-arginine. *AGE: Journal of the American Aging Association (AGE AGEING)*, vol. 23, 33-40, 2000. - *Impact factor 5.83*

2. G. Costache, D. Popov, **A. Georgescu**, M. Cenuse, V.V. Jinga, M. Simionescu. The effects of simultaneous hiperlipemia-hiperglycemia on the mesenteric resistance arteries, myocardium and kidney glomeruli. *J. Submicroscop. Cytol. Pathol*, vol 32(1), 47-58, 2000. - *impact factor 0.5*

3. **A. Georgescu**, D. Popov, M. Simionescu. Mechanisms of impeded bradykinin-induced vasodilation in experimental hyperlipemia-hyperglycemia: contribution of nitric oxide and Ca<sup>2+</sup>

- activated K<sup>+</sup> channels. *Fundamental and Clinical Pharmacology*, vol. 15, 335-342, 2001.- *impact factor 2.10*
4. D. Popov, G. Costache, **A. Georgescu**, M. Enache. Beneficial effects of L- arginine supplementation in experimental hyperlipemia – hyperglycemia in the hamster. *Cell and Tissue Research*, 308 (1), 109-120, 2002. - *impact factor 2.74*
5. **A. Georgescu**, D. Popov, M. Capraru, M. Simlonescu. Enoxaparin – a low molecular weight heparin, restores the altered vascular reactivity of resistance arteries in aged and aged-diabetic hamsters. *Vascular Pharmacology*, 40, 167-174, 2003.- *impact factor 2.31*
6. **A. Georgescu**, D. Popov. The contractile response of the mesenteric resistance arteries to prostaglandin F<sub>2α</sub>; effects of simultaneous hyperlipemia-diabetes. *Fundamental and Clinical Pharmacology*, vol 17, 683-689, 2003. -*impact factor 2.10*
7. M. Voinea, **A Georgescu**, A. Manea, E. Dragomir, I. Manduteanu, D. Popov, M. Simionescu. Superoxide dismutase entrapped-liposomes restore the impaired endothelium-dependent relaxation of resistance arteries in experimental diabetes. *European Journal of Pharmacology*, vol 484(1), 111-118, 2004.- *impact factor 2.78*
8. D.L. Radu, **A. Georgescu**, C. Stavaru, A. Carale, D. Popov. Double transgenic mice with Type 1 diabetes mellitus develop somatic, metabolic and vascular disorders. *J. Cell. Mol. Med.*, 8, 349-358, 2004.- *impact factor 5.11*
9. **Adriana Georgescu**, Florentina Pluteanu, Maria-Luisa Flonta, Elisabeta Badila, Maria Dorobantu, Doina Popov. The cellular mechanisms involved in the vasodilator effect of nebivolol on the renal artery. *European Journal of Pharmacology*, 508,159-166, 2005.- *impact factor 2.78*
10. Marc Schneider, **Adriana Georgescu**, Rose Kientsch-Engel, Peter Stahl, Doina Popov, Monika Pischetsrieder. Detection of DNA-bound advanced Glycation End-products by immunoaffinity chromatography coupled to HPLC-Diode array detection. *Molecular Nutrition & Food Research*, 50, 424-429, 2006.- *Impact factor 4.3*
11. **Adriana Georgescu**, Nicoleta Alexandru, Elena Constantinescu, Doina Popov. Effect of gap junction uncoupler heptanol on resistance arteries reactivity in experimental models of diabetes, hyperlipemia and hyperlipemia-Diabetes. *Vascular Pharmacology* 44, 513-518, 2006.- *Impact factor 2.31*
12. **Adriana Georgescu**, Doina Popov, Emanuel Dragan, Elena Dragomir, Elisabeta Badila. Protective effects of nebivolol and reversal of endothelial dysfunction in diabetes associated with hypertension. "European Journal of Pharmacology", 570,149-158, 2007.- *impact factor 2.78*
13. **A. Georgescu**, F. Pluteanu, M-L. Flonta, E. Badila, M. Dorobantu, D. Popov. Nebivolol induces the hyperpolarizing effect on smooth muscle cells in the mouse renal artery by activation of the β<sub>2</sub> – adrenoceptor. *Pharmacology*, 81:110-117, 2008.- *impact factor 1.89*
14. **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov, Manuela Amuzescu, Eugen Andrei, Constantin Zamfir, Horia Maniu, Adrian Badila. Chronic venous insufficiency is associated with elevated level of circulating microparticles. *Journal of Thrombosis and Haemostasis*, 7 (9): 1566-1575, 2009.- *impact factor 6.4*
15. Popov Doina, Nemezc Miruna, Dumitrescu Madalina, **Georgescu Adriana**, Böhmer Frank D. Long-term high glucose concentration influences Akt, ERK1/2, and PTP1B protein expression in human aortic smooth muscle cells. *Biochemical and Biophysical Research Communications*, 388(1):51-55, 2009.- *Impact factor 2.64*
16. Sadri Chahed, Aurélie S. Leroyer, Mounir Benzerroug, David Gaucher, **Adriana Georgescu**, Serge Picaud, Jean-Sébastien Silvestre, Alain Gaudric, Alain Tedgui, Pascale Massin, Chantal M. Boulange. Increased vitreous shedding of microparticles in proliferative diabetic retinopathy stimulates endothelial proliferation. *Diabetes*, 59, 694-701, 2010.- *impact factor 8.889*
17. N. Alexandru, D. Popov, **A. Georgescu**. Intraplatelet oxidative/nitrative stress: inductors, consequences, and control. *Trends Cardiovasc Med*; 20: 232–238, 2010.- *Impact factor: 3.25*
18. **Adriana Georgescu**, Doina Popov, Anamaria Constantin, Miruna Nemezc, Nicoleta Alexandru, Daniel Cochior, Aura Tudor. Dysfunction of human subcutaneous fat arterioles in obesity alone or obesity associated with Type 2 diabetes. *Clinical Science*, 120(10): 463-472; 2011.- *Impact factor 4.85*
19. Nicoleta Alexandru, Doina Popov, Emanuel Dragan, Eugen Andrei, **Adriana Georgescu**. Platelet activation in hypertension associated with hypercholesterolemia; effects of irbersartan. *Journal of Thrombosis and Haemostasis*, 9(1):173-184, 2011. - *impact factor 6.4*
20. **Adriana Georgescu**, Nicoleta Alexandru, Miruna Nemezc, Irina Titorencu, Doina Popov. Enoxaparin reduces adrenergic contraction of resistance arterioles in aging and in aging associated

- with diabetes via engagement of MAP kinase pathway. *Blood Coagulation and Fibrinolysis*, 22(4):310-316, 2011. - *impact factor 1.4*
21. Nicoleta Alexandru, **Adriana Georgescu**, Manuela Amuzescu, Constantin Zamfir, Adrian Badila, Dolna Popov. Platelet reactivity in chronic venous insufficiency. *Clinical Laboratory*, 57(7-8): 527-534, 2011. - *impact factor 1.01*
22. Marilena Lupu, Markus Khalil, Eugen Andrei, Florin Iordache, Kurt Pfannkuche, Klaus Neef, **Adriana Georgescu**, Cosmin Buzila, Konrad Brockmeier, Horia Maniu, Jürgen Hescheler. Integration properties of Wharton's jelly-derived novel mesenchymal stem cells into ventricular slices of murine hearts. *Cellular Physiology and Biochemistry*. 28:63-76, 2011. - *impact factor 3.58*
23. **Adriana Georgescu**, Nicoleta Alexandru, Andrei Constantinescu, Irina Titorencu, Dolna Popov. The promise of EPCs-based therapies on vascular dysfunction in diabetes. *European Journal of Pharmacology*. 669: 1-6, 2011 - *Impact factor 2.78*
24. **Adriana Georgescu**. Vascular dysfunction in diabetes: the endothelial progenitor cells as new therapeutic strategy. *World Journal of Diabetes*, June 15; 2(6): 92-97, 2011.
25. I Titorencu, M. G. Albu, F. Anton, **A. Georgescu**, V. V. Jinga. Collagen - dexamethasone and collagen-D<sub>3</sub> scaffolds for bone tissue engineering. *Molecular Crystals and Liquid Crystals*, 555: 1-10, 2012. - *impact factor 0.502*
26. Nicoleta Alexandru, Dolna Popov, **Adriana Georgescu**. Platelet dysfunction in vascular pathologies and how can it be treated. *Thrombosis Research*, 129:116-126, 2012. - *impact factor 2.44*
27. **Adriana Georgescu**, Nicoleta Alexandru, Eugen Andrei, Irina Titorencu, Emanuel Dragan, Cristina Tarziu, Silviu Ghiorghe, Elisabeta Badila, Daniela Bartos, Dolna Popov. Circulating microparticles and endothelial progenitor cells in atherosclerosis; pharmacological effects of irbesartan. *Journal of Thrombosis and Haemostasis*, 10: 680-691, 2012.- *Impact factor 6.4*
28. Nicoleta Alexandru, Dolna Popov, Emanuel Dragan, Eugen Andrei, **Adriana Georgescu**. Circulating endothelial progenitor cell and platelet microparticle impact on platelet activation in hypertension associated with hypercholesterolemia. *PLoS One*, 8(1):e52058-e52068, 2013. - *impact factor 4.092*
29. **Adriana Georgescu**, Nicoleta Alexandru, Miruna Nemezc, Irina Titorencu, Dolna Popov. Irbesartan administration therapeutically influences circulating endothelial progenitor cell and microparticle mobilization by involvement of pro-inflammatory cytokines. *European Journal of Pharmacology*, 711: 27-35, 2013. - *Impact factor 2.78*
30. Bich-Hoai Thi Ton, Qingmin Chen, Gisela Gaina, Catalin Tucureanu, **Adriana Georgescu**, Carmen Strungaru, Maria-Luiza Flonta, Dinah Sah, Violeta Ristoiu. Activation profile of dorsal root ganglia Iba-1 (+) macrophages varies with the type of lesion in rats. *Acta Histochemica*, 115(8): 840-850, 2013. - *impact factor 1,608*
31. Nicoleta Alexandru, **Adriana Georgescu**. Circulating microparticles and microRNAs as players in atherosclerosis. *World Journal of Hematology*, 2(2): 16-19, 2013. - *Impact factor 1*
32. Elisabeta Bădilă, Ana Maria Daraban, Silviu Ghiorghe, **Adriana Georgescu**, Nicoleta Alexandru, Daniela Bartos, Cristina Tîrziu. Rethinking cardiovascular therapy - the effect of irbesartan on circulating microparticles and endothelial progenitor cells in patients with hypertension and dyslipidemia. *Farmacia*, 62 (1): 93-106, 2014. - *impact factor 0.669*
33. Eugen Andrei, Nicoleta Alexandru, Emanuel Dragan, **Adriana Georgescu**. Flow cytometric analysis of circulating microparticles and endothelial progenitor cells in plasma; a research tool for atherosclerosis and therapy. *Experimental and Clinical Cardiology*, 20 (7): 1554-1563, 2014.- *impact factor 1.10*
34. Nicoleta Alexandru, Eugen Andrei, Emanuel Dragan, **Adriana Georgescu**. Interaction of platelets with endothelial progenitor cells in the experimental atherosclerosis; the role of transplanted endothelial progenitor cells and platelet microparticles. *Biology of The Cell*, 107(6): 189-204, 2015.- *impact factor 3,87*.
35. Elisabeta Bădilă, Ana Maria Daraban, Emma Jintea, Daniela Bartos, Nicoleta Alexandru, **Adriana Georgescu**. Midkine in cardio-vascular disease: Where do we come from and where are we heading to? *European Journal of Pharmacology*, 762:464-471, 2015. - *impact factor 2.68*
36. Josune Orbe, Nicoleta Alexandru, Carmen Roncal, Miriam Belzunce, Paula Biblot, Jose A Rodriguez, Joost C Meijers, **Adriana Georgescu**, Jose A Paramo. Lack of TAFI increases brain damage and microparticle generation after thrombolytic therapy in ischemic stroke. *Thrombosis Research*, 136: 445-450, 2015. - *impact factor 2.42*

37. Nicoleta Alexandru, Elisabeta Badila, Emma Weiss, Daniel Cochior, Ewa Stępień, **Adriana Georgescu**. Vascular Complications in Diabetes: Microparticles and Microparticle Associated MicroRNAs as Active Players. *Biochemical and Biophysical Research Communications*, 472:1-10, 2016. - *Impact factor 2.297*
38. **Adriana Georgescu**, Nicoleta Alexandru, Eugen Andrei, Emanuel Dragan, Daniel Cochior, Sérgio Dias. Effects of transplanted circulating endothelial progenitor cells and platelet microparticles in atherosclerosis development. *Biology of The Cell*, 108 (8), 219-243, 2016 - *impact factor 3.506*
39. Miruna Nemezc, Nicoleta Alexandru, Gabriela Tanko, **Adriana Georgescu**. Role of microRNA In endothelial dysfunction and hypertension, *Current Hypertension Reports*, 18 (12): 1-21, article 87, 2016. - *Impact factor 3.112. (AIS: 1.396)*
40. Nicoleta Alexandru, Ana Costa, Alina Constantin, Daniel Cochior, **Adriana Georgescu**. Microparticles: from biogenesis to biomarkers and diagnostic tools in cardiovascular disease. *Current Stem Cell Research and Therapy*, 12(2): 89-102, 2017. - *impact factor 2.645*
41. Nicoleta Alexandru, Eugen Andrei, Loredan Niculescu, Emanuel Dragan, Violeta Ristoiu, **Adriana Georgescu**. Microparticles of healthy origins improve endothelial progenitor cell dysfunction via microRNA transfer in an atherosclerotic hamster model. *Acta Physiologica*, 221, 230-249, 2017.- *impact factor 5.93*
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- 32.** Florin Iordache, Dorin Alexandru, **Adriana Georgescu**, Horia Maniu. Differentiation of human amniotic stem cells into endothelial and muscle progenitor cells for blood vessels engineering. Poster presentation at the '44<sup>th</sup> The Federation of European Biochemical Societies' (FEBS 2017) Meeting, Krakow, Poland, 6-11 July, 2019 -in *FEBS OPEN BIO* 9, 237-238, 2019, - IF 2,1
- 33.** N. Alexandru, A. Constantin, M. Nemezc, I. K. Comarița, A. Vîlcu, A. Procopciuc, G. Tanko, **A. Georgescu**. Effects of endothelial progenitor cell therapy on microRNA expression profiles in plasma,

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**34.** I.K. Comarița, A. Vilcu, A. Procopciuc, F. Safciuc, A. Constantin, M. Nemezc, G. Tanko, N. Alexandru, **A. Georgescu**. The hypertensive-hyperlipidemic hamster, an experimental animal model of atherosclerosis to investigate the vascular dysfunction and cardiac hypertrophy. Poster 347 / #1345 at the '88th European Atherosclerosis Society Virtual Congress' (EAS 2020), October 4th-7th, 2020, Geneva, Switzerland. Abstract in *Atherosclerosis*, Volume 315, Page e120, Publication date:2020/12/1, DOI:<https://doi.org/10.1016/j.atherosclerosis.2020.10.367>.

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**35.** Ioana Karla Comarița, Alina Constantin, Alexandra Vilcu, Anastasia Procopciuc, Florentina Safciuc, Nicoleta Alexandru, Emanuel Dragan, Miruna Nemezc, Alexandru Filippi, **Adriana Georgescu**. Inflammation-induced arterial dysfunction in atherosclerosis; the modulating action of mesenchymal stem cell-derived extracellular vesicles. *Frontiers in CardioVascular Biomedicine*, 29 April - 1 May 2022, Budapest - Hungary. Abstract No. 70108 in *Cardiovascular Research* 118 (Supplement\_1), cvac066. 187, 2022. **Q1, IF=10,787**

**36.** Miruna Nemezc, Diana Simona Stefan, Alina Constantin, Anastasia Procopciuc, Ioana Karla Comarita, Gabriela Tanko, **Adriana Georgescu**. MicroRNAs in circulating microvesicles and plasma as biomarkers that complement the clinical diagnosis of diabetic dyslipidemia and its complications. *Frontiers in CardioVascular Biomedicine*, 29 April - 1 May 2022, Budapest - Hungary. Abstract No. 70246 in *Cardiovascular Research* 118 (Supplement\_1), cvac066. 224, 2022. **Q1, IF=10,787**

**37.** Ioana Karla Comarița, Alina Constantin, Alexandra Vilcu, Anastasia Procopciuc, Florentina Safciuc, Nicoleta Alexandru, Emanuel Dragan, Miruna Nemezc, Alexandru Filippi, **Adriana Georgescu**. Vascular wall damage in atherosclerotic cardiovascular disease; positive effect of extracellular vesicle-based nanotherapeutics on endothelial dysfunction and its key molecular players. *'90th European Atherosclerosis Society Congress (90th EAS Congress)'*, 22-25 May, 2022, Milan, Italy. Abstract in *Atherosclerosis*, Volume 355:29, DOI: 10.1016/j.atherosclerosis.2022.06.315. **Q1, IF=6,847**

**38.** Alina Constantin, Nicoleta Alexandru, Miruna Nemezc, Alexandra Vilcu, Anastasia Procopciuc, Ioana Karla Comarița, **Adriana Georgescu**. Mesenchymal stem cell-derived extracellular vesicles attenuate cardiac hypertrophy in a cellular model of human-induced pluripotent stem cell-derived cardiomyocytes. *'90th European Atherosclerosis Society Congress (90th EAS Congress)'*, 22-25 May, 2022, Milan, Italy. Abstract in *Atherosclerosis*, Volume 355:233, DOI: 10.1016/j.atherosclerosis.2022.06.902. **Q1, IF=6,847**

#### **Prezentari orale invitate la universitati (institute) prestigioase din strainatate**

**1. Adriana Georgescu.** *Chronic venous insufficiency is associated with elevated level of circulating microparticles.* Institute of Physiology and Biophysics, Aarhus University, Aarhus, Denmark, December 7, 2007

**2. Adriana Georgescu.** *Ratio of microparticles to endothelial progenitor cells, a marker of vascular dysfunction induced by combined hypertension and hypercholesterolemia; irbersartan effect.* Portuguese Institute of Oncology, Department of Angiogenesis, Lisbon, Portugal, May 18, 2012.

**3. Adriana Georgescu.** *Circulating microparticles and endothelial progenitor cells in atherosclerosis; pharmacological effects of irbersartan.* Queen's University Belfast, Centre for Vision & Vascular Science Belfast (Northern Ireland, UK), June 14, 2012.

**4. Adriana Georgescu.** *Irbersartan increases the mobilization of endothelial progenitor cells in atherosclerosis by an inhibitor effect on circulating microparticles and VEGF/SDF-1 $\alpha$ .* Center for Applied Medical Research (CIMA), University of Navarra, Division of Cardiovascular Sciences, Pamplona, Spain, October 19, 2012.

#### **Prezentari orale la conferinte internationale**

**1.** The effect of enoxaparin sodium on the vascular reactivity of the resistance arteries. **A. Georgescu**, D. Popov, M. Capraru, L. Vladimirescu, M. Simionescu, *International Workshop on*

*Biological effects of ionizing radiation, electromagnetic fields and chemical toxic agents*, Sinaia-Romania, October 2<sup>nd</sup>-5<sup>th</sup> 2001.

2. Effect of enoxaparin on the reactivity of resistance arteries; the role of endothelial nitric oxide. **A. Georgescu**, D. Popov, M. Capraru, M. Simionescu, *Cardiovascular dysfunction in hyperlipemia and diabetes Workshop*, Bucharest-Romania, October 10<sup>th</sup>-13<sup>th</sup> 2002, pg. 31.

3. The cellular mechanisms involved in the vasodilator effect of nebivolol on the renal artery. **A. Georgescu**, at *25 years Anniversary Workshop Cell and Molecular Biology a Key to Defeat Global Risk Diseases: Atherosclerosis, Diabetes and Immune Disorders*, Bucharest-Romania, September 8<sup>th</sup>-12<sup>th</sup>, 2004.

4. Vascular effects of nebivolol, a cardiovascular drug: focus on the cellular mechanisms, **Adriana Georgescu**, Doina Popov, Florentina Pluteanu, Maria-Luisa Flonta, Elisabeta Badila, Maria Dorobantu, Maya Simionescu, *International Symposium of Hypertension*, Poiana Brasov, Romania, April 14<sup>th</sup>-16<sup>th</sup>, 2005.

5. Vascular effects of nebivolol, a cardiovascular drug: focus on the cellular mechanisms, **Adriana Georgescu**, at congress: *New insights in molecular medicine*, Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania November 4<sup>th</sup> 2005.

6. The myograph, a researcher system for in vitro monitoring of the function of the small blood vessels; the principles, experimental results and practical demonstration. **Adriana Georgescu**, at *International Symposium, Advances in Cell and Molecular Biology and Pathology* in Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, October 13<sup>th</sup>-20<sup>th</sup> 2006.

7. Protective role of nebivolol on the vascular dysfunction in diabetes associated to hypertension; the involved molecular mechanisms. **Adriana Georgescu**, Doina Popov, Elena Dragomir, Emanuel Dragan, Elisabeta Badila, Maya Simionescu. *Third European Vascular Genomics Network Conference - Toulouse*, France, December 11<sup>th</sup>-14<sup>th</sup> 2006.

8. Microparticles as potential markers in venous insufficiency. **Adriana Georgescu**, Nicoleta Alexandru, Horia Maniu, Miruna Nemezc, Doina Popov. *Romanian Society for Cell Biology at 25 years Anniversary; Anniversary workshop 'From Basic Science to Therapeutic Applications'*, Bucharest, Romania, June 6<sup>th</sup>-10<sup>th</sup> 2007, in Book of Abstracts, pg. 4.

9. The myograph, a researcher system for in vitro monitoring of the function of the small blood vessels; the principles, experimental results and practical demonstration. **Adriana Georgescu**, at *International Symposium, Advances in Cell and Molecular Biology and Pathology* in Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, October 15<sup>th</sup>-22<sup>th</sup> 2007.

10. Chronic venous insufficiency is associated with elevated level of circulating microparticles. **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov, Manuela Amuzescu, Miruna Nemezc, Constantin Zamfir, Horia Maniu, Adrian Badila, in *Journal of Vascular Research*, vol. 45, supplements 2, p.146, at *'25th Conference of the European Society for Microcirculation: Integrating Vascular Biology & Medicine Basic and Clinical Science'*, Budapest, Hungary, August 26<sup>th</sup>-29<sup>th</sup> 2008.

11. Ratio of microparticles to endothelial progenitor cells, a marker of vascular dysfunction induced by combined hypertension and hypercholesterolemia; irbesartan effect. **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov, Eugen Andrei, Irina Titorencu, Emanuel Dragan, Cristina Tarziu, Silviu Ghiorghe, Elisabeta Badila, Daniela Bartos, Maya Simionescu. *'the 78th European Atherosclerosis Society Congress'*, Hamburg, Germany, in *Atherosclerosis Supplements*, Volume 11, Issue 2, Page 12, June 20<sup>th</sup> - 23<sup>th</sup> 2010.

12. Identification of new biomarkers for prediction of endothelial vascular dysfunction; strategies to reverse vascular wall function. **Adriana Georgescu**, Nicoleta Alexandru, Eugen Andrei, Irina Titorencu, Emanuel Dragan, Doina Popov. *Spring Training Course: 'Bioactive/Biocompatible Polymeric Materials'*, at Centre of Polymer and Carbon Materials, Polish Academy of Sciences, Zabrze, Poland, March 6<sup>th</sup>-13<sup>th</sup> 2011.

13. Practical demonstration on miography. **Adriana Georgescu**. *Simionescu's advanced school of cellular and molecular approaches for the progress of the biomedical research*, Bucharest, Romania, 5-14 November 2012.

14. Ratio of circulating microparticles to endothelial progenitor cells, a marker of vascular dysfunction induced by combined hypertension and hypercholesterolemia; irbesartan effect. **A. Georgescu**, N. Alexandru, E. Andrei, E. Dragan, M. Nemezc, C. Tarziu, S. Ghiorghe, D. Bartos, E. Badila. Presentation at *'the 17th Joint Meeting Signal Transduction - Receptors, Mediators and Genes (STS)'*, Welmar, Germany, 4- 6 November 2013, in Programme Book, p. 111.

15. Paramo JA, Roncal C, Alexandru N, Bibiot P, Meijers JC, **Georgescu A**, Orbe J. Lack of TAFI has deleterious effect on experimental ischemic stroke: Potential role of microparticles. *23<sup>rd</sup> Biennial*

*International Congress on Thrombosis*, Valencia, Spain, 14-17 May 2014, *Thrombosis Research* 133S3, p.S5, 2014.

**16. Adriana Georgescu**, Nicoleta Alexandru, Eugen Andrei, Emanuel Dragan, Florentina Safciuc, Ana Maria Daraban, Elisabeta Badila. Circulating microparticles of healthy origins protect against atherosclerotic vascular disease via microRNA transfer to endothelial progenitor cells. Oral presentation at the *Frontiers in Cardiovascular Biology 2016* meeting, Florence, Italy, 08-10 July 2016, Abstract No. 257 in the *Cardiovascular Research*, Volume 111, Issue suppl 1, Pp. S49, 2016.

**17. Adriana Georgescu**. Investigating New Therapeutic Strategies In Atherosclerosis and Diabetes Associated or Not with Obesity. Annual Report: on the road from laboratory bench to precision medicine. *'The 12<sup>th</sup> Central and Eastern European Proteomic Conference' jointly with 'The 39<sup>th</sup> Anniversary of the Institute of Cellular Biology and Pathology 'Nicolae Simionescu'*, October 24-26, 2018, Bucharest, Romania, Abstract in "Book of Abstracts", p. 9.

**18. Adriana Georgescu**. Vascular endothelial dysfunction: cardiovascular risk factors, new biomarkers and therapies. Anniversary symposium *'An incredible 40-year journey to uncover cell's secrets for the benefit of human health'*, September 19-20, 2019, Bucharest, Romania.

**19. Alexandru Filippi, Adriana Georgescu**. Early diabetes induces alterations in endothelial progenitor cell phenotype and homing in a murine model of atherosclerosis". Anniversary symposium *'An incredible 40-year journey to uncover cell's secrets for the benefit of human health'*, Workshop Theravaldis: "Targeted therapies for aortic valves in diabetes" September 19-20, 2019, Bucharest, Romania.

**20. Miruna Nemezc, Adriana Georgescu, Maya Simionescu**. Oleic acid protects human pancreatic beta cells against palmitic acid-induced lipotoxicity; an alternative therapeutic strategy to improve beta-cell survival in diabetes. **INTERDIAB 2020 - 6<sup>th</sup> International Conference on Interdisciplinary Management of Diabetes Mellitus and Its Complications. Diabetes Mellitus in Internal Medicine**. March 5<sup>th</sup>-7<sup>th</sup>, 2020, Bucharest, Romania.

**21. Ioana Karla Comarița, Alina Constantin, Alexandra Vilcu, Anastasia Procopciuc, Florentina Safciuc, Nicoleta Alexandru, Emanuel Dragan, Miruna Nemezc, Alexandru Filippi, Adriana Georgescu**. Therapeutic potential of stem cell-derived extracellular vesicles on atherosclerosis-induced vascular dysfunction. *The 42nd Anniversary Symposium Of The Institute Of Cellular Biology And Pathology "Nicolae Simionescu" Held Jointly With 38th Annual Scientific Session Of The Romanian Society For Cell Biology*, November 4-6, 2021, Bucharest, Romania.

**22. Natalia Simionescu, S. Nechifor, R. Buga, M. Dabija, L. Eva, Anca-Roxana Petrovici, Adriana Georgescu**. Molecular subtypes of glioblastoma tumors in patients from the north east region of Romania. *The 3rd edition of the National Congress of Modern Neurosciences In Romania*, October 12-16, 2021, Iasi, Romania.

**23. Simionescu N, Petrovici AR, Nechifor S, Buga R, Dabija M, Eva L, Georgescu A**. MicroRNAs in circulating microvesicles: new potential biomarkers for glioblastoma relapse. Oral communication at the XXXIInd edition of the International Congress of "Apollonia" University of Iași: "By promoting excellence, we prepare the future", Iasi, Romania, February 28th - March 2nd 2022.

**24. Ioana Karla Comarița, Alina Constantin, Alexandra Vilcu, Anastasia Procopciuc, Florentina Safciuc, Nicoleta Alexandru, Emanuel Dragan, Miruna Nemezc, Alexandru Filippi, Adriana Georgescu**. Inflammation-induced arterial dysfunction in atherosclerosis; the modulating action of mesenchymal stem cell-derived extracellular vesicles. *'Frontiers in CardioVascular Biomedicine'*, 29 April - 1 May 2022, Budapest - Hungary. Abstract No. 70108 in *Cardiovascular Research* 118 (Supplement\_1), cvac066. 187, 2022.

**25. Miruna Nemezc, Diana Simona Stefan, Alina Constantin, Anastasia Procopciuc, Ioana Karla Comarita, Gabriela Tanko, Adriana Georgescu**. MicroRNAs in circulating microvesicles and plasma as biomarkers that complement the clinical diagnosis of diabetic dyslipidemia and its complications. *'Frontiers in CardioVascular Biomedicine'*, 29 April - 1 May 2022, Budapest - Hungary. Abstract No. 70246 in *Cardiovascular Research* 118 (Supplement\_1), cvac066. 224, 2022.

**26. Ioana Karla Comarița, Alina Constantin, Alexandra Vilcu, Anastasia Procopciuc, Florentina Safciuc, Nicoleta Alexandru, Emanuel Dragan, Miruna Nemezc, Alexandru Filippi, Adriana Georgescu**. Vascular wall damage in atherosclerotic cardiovascular disease; positive effect of extracellular vesicle-based nanotherapeutics on endothelial dysfunction and its key molecular players. *'90th European Atherosclerosis Society Congress (90th EAS Congress)'*, 22-25 May, 2022, Milan, Italy. Abstract in *Atherosclerosis*, Volume 355:29, DOI: 10.1016/j.atherosclerosis.2022.06.315

**27. Alina Constantin, Nicoleta Alexandru, Miruna Nemezc, Alexandra Vilcu, Anastasia Procopciuc, Ioana Karla Comarița, Adriana Georgescu**. Mesenchymal stem cell-derived extracellular vesicles attenuate cardiac hypertrophy in a cellular model of human-induced pluripotent stem cell-derived

cardiomyocytes. '90th European Atherosclerosis Society Congress (90th EAS Congress)', 22-25 May, 2022, Milan, Italy. Abstract in *Atherosclerosis*, Volume 355:233 DOI: 10.1016/j.atherosclerosis.2022.06.902

**28. Adriana Georgescu.** Promising therapeutic strategies based on stem cell-derived extracellular vesicles and endothelial progenitor cells in cardiovascular disease. *ICBP-NS ANNUAL SCIENTIFIC SYMPOSIUM with international participation held under the aegis of the ROMANIAN ACADEMY "43 years on the never-ending road of cardiovascular discoveries"*. December 8-9, 2022.

### **Prezentari orale la conferinta nationale**

**1.** Glication of DNA genomic. Experimental proves and effects on the cellular process. **Adriana Georgescu**, *XXII Yearly Scientific Sesson of Institute of Cellular Biology and Pathology Nicolae Simionescu*, Bucharest, Romania, September 14<sup>th</sup> 2001.

**2.** The myograph using in vascular reactivity studies; the principles, experimental results and practical demonstration. **Adriana Georgescu**, at Course untitled: *From the Molecular and Cellular Biology to 20<sup>th</sup>-Century Medicine*, Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, May 28<sup>th</sup> -June 5<sup>th</sup> 2001.

**3.** The myograph using in vascular reactivity studies; the principles, experimental results and practical demonstration. **Adriana Georgescu**, at Course untitled: *From the Molecular and Cellular Biology to 20<sup>th</sup>-Century Medicine*, Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, October 10<sup>th</sup>-17<sup>th</sup> 2002.

**4.** AGE-dependent accumulation of advanced glycation endproducts is accelerated in combined hyperlipidemia and hyperglycemia, a process attenuated by L-arginine". **A. Georgescu**, D. Popov, *The session organized by The Healthy Nutrition Foundatlon*, Bucharest, Romania, October 2002.

**5.** The myograph using in vascular reactivity studies; the principles, experimental results and practical demonstration. **Adriana Georgescu**, at Course untitled: *From the Molecular and Cellular Biology to 20<sup>th</sup>-Century Medicine*, Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, June 20<sup>th</sup>-27<sup>th</sup> 2003.

**6.** The effect of enoxaparin sodium on the vascular reactivity of the resistance arterles. **A. Georgescu**, D. Popov, M. Capraru, L. Vladimirescu, M. Simionescu, *Anniversary Session - Diabetes Hospital*, October 2003.

**7.** Signaling pathways Involved in the vasodilator effect of neblivolol on the renal artery. **A. Georgescu**, F. Pluteanu, M-L. Flonta, E. Badila, M. Dorobantu, E. Dragan, D. Popov, *XXII Yearly Scientific Session of National Society of Cellular Biology*, Sighisoara, Romania, June 10<sup>th</sup>-13<sup>th</sup> 2004, in SNBC Book pg .32.

**8.** Superoxide dismutase entrapped-liposomes restore the impaired endothelium-dependent relaxation of resistance arteries in experimental diabetes. M. Voinea, **A. Georgescu**, A. Manea, E. Dragomir, I. Manduteanu, D. Popov, M. Simionescu, at *25 years Anniversary Workshop "Cell and Molecular Biology a Key to Defeat Global Risk Diseases: Atherosclerosis, Diabetes and Immune Disorders*, Bucharest-Romania, September 8<sup>th</sup>-12<sup>th</sup>, 2004.

**9.** Biochemical mechanisms of vascular wall cells in diabetes. D. Popov, **A. Georgescu**, G. Costache, A. Constantin, M Simionescu, *XII Annual Session of N.C. Paulescu Institute, in Romanian Journal of Diabetes, Nutrition and Metabolic Diseases*, vol. 11, 2004.

**10.** Liposome carrying superoxide dismutase; the vectors for establishment of endothelium dependent relaxation in experimental diabetes. Manuela Voinea, **Adriana Georgescu**, Adrian Manea, Elena Dragomir, Ileana Manduteanu, Doina Popov, Maya Simionescu, *Workshop: Bio and Nanotechnology - Fundamental and applicative aspects*, Bucharest, Romania, November 5<sup>th</sup> 2004.

**11.** Enoxaparin establish the endothelial dysfunction in aging and experimental diabetes. Adriana Georgescu, Doina Popov, Maya Simionescu, *Comemorativ Simposium Acad. Nicolae Cajal*, Bucharest, Romania, March 30<sup>th</sup>-31<sup>th</sup>, 2005.

**12.** Electrophysiological methods for studying intracellular signaling pathways. **Adriana Georgescu**, Emanuel Dragan, Doina Popov, *XXIII Yearly Scientific Session of National Society of Cellular Biology*, Sibiu, Romania, June 9<sup>th</sup>-12<sup>th</sup> 2005, in SNBC Book, pg. 34-35.

**13.** The myograph using in vascular reactivity studies; the principles, experimental results and practical demonstration. **Adriana Georgescu**, at Course untitled: *From the Molecular and Cellular Biology to 20<sup>th</sup>-Century Medicine*, Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, October 14<sup>th</sup> -21<sup>th</sup> 2005.

**14.** Superoxide dismutase entrapped-liposomes restore the impaired endothelium-dependent relaxation of resistance arteries in experimental diabetes. M. Voinea, **A. Georgescu**, A. Manea, E. Dragomir, I. Manduteanu, D. Popov. M. Simionescu. *24th Conference of the European Society for*



*Microcirculation, Amsterdam, The Netherlands, August 30<sup>th</sup> - September 2<sup>nd</sup>, in Journal of Vascular Research, 43 (suppl.1), pg. 18, 2006.*

**15.** Superoxide dismutase entrapped-liposomes restore the impaired endothelium-dependent relaxation of resistance arteries in experimental diabetes. M. Voinea, **A. Georgescu**, A. Manea, E. Dragomir, I. Manduteanu, D. Popov, M. Simionescu. *The International Symposium 'Novel trends in cell and molecular biopathology'*, Bucharest, Romania, February 16<sup>th</sup> 2007.

**16.** The myograph, a researcher system for in vitro monitoring of the function of the small blood vessels; the principles, experimental results and practical demonstration. **Adriana Georgescu**, at *International Symposium 'Advanced Study School, 8<sup>th</sup> edition, 'From Cellular and Molecular Biology to the XXI<sup>st</sup> Century Medicine'*, in Institute of Cellular Biology and Pathology 'Nicolae Simionescu', Bucharest, Romania, October 20<sup>th</sup>-29<sup>th</sup> 2008,

**17.** The ratio between circulating microparticles and endothelial progenitor cells – a new marker of vascular dysfunction. **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov, Emanuel Dragan, Eugen Andrei, Irina Titorencu, Maya Simionescu. *Yearly Scientific Session of Romanian Society of Cellular Biology*, Constanta, Romania, June 9<sup>th</sup>-12<sup>th</sup> 2010, in SNBC Book pg. 26

**18.** Role of circulating microparticles and of endothelial progenitor cells in atherosclerosis; the pharmacological effects of irbersartan. **Adriana Georgescu**, Nicoleta Alexandru, Dolna Popov, Eugen Andrei, Emanuel Dragan, Irina Titorencu, Maya Simionescu. *Yearly Scientific Session. Workshop: Cellular and molecular biology for the human health*. Bucharest, Romania, September 8<sup>th</sup>, 2010.

**19.** Implicatii patofiziologice si terapeutice ale microparticulelor plachetare circulante si celulelor progenitoare endoteliale in ateroscleroza. **Adriana Georgescu**. *Simpozion Aniversar, IBPC 'Nicolae Simionescu', 35 ani: De la Cercetarea Fundamentala si Preclinica la Medicina Personalizata*. 10-11 Decembrie 2014.

**20.** Noi abordari in investigarea si tratarea aterosclerozei si a diabetului de tip 2 asociat cu obezitatea. **Adriana Georgescu**. *Simpozion Aniversar, IBPC 'Nicolae Simionescu', 37 ani: Biologia Celulara si Moleculara in Dialog cu Medicina de Precizie*, 8 Decembrie 2016, Bucuresti, Romania.

**21.** Alexandru Filippi, Alina Constantin, Nicoleta Alexandru, Cristina Ana Mocanu (Constantinescu), Madalina Fenyo, Dan Simionescu, Agneta Simionescu, Ileana Manduteanu, **Adriana Georgescu**. Evaluarea efectelor terapiei cu celule progenitoare endoteliale alogene manipulate genetic asupra structurii si functiei valvei aortice in diabetul asociat aterosclerozei. *Workshop -Theravaldis*, 27 Noiembrie 2020, Bucuresti, Romania.

## **Premii**

### **Premii internationale**

**1.** Premiu (grant) oferit pentru prezentarea: The abnormal responses to PGF<sub>2α</sub> and potassium of the mesenteric resistance arteries in hyperlipemic- hyperglycemic hamsters. **A. Georgescu**, G. Costache, D. Popov, M. Simionescu, at *Third European Research Conference on Blood Pressure and Cardiovascular Disease, Noordwijkerhout, The Netherlands*, Oct. 16-18, 1998.

**2.** Premiu (grant) oferit pentru prezentarea: The effect of combined hyperlipemia-hyperglycemia on the reactivity of resistance arteries to noradrenaline and bradykinine; the modulation of dysfunctions by oral administration of L-arginine. **A. Georgescu**, D. Popov, G. Costache, M. Simionescu, at *XI International Vascular Biology Meeting, Geneva-Switzerland*, September 5-9, 2000.

**3. Premiul al II -lea** obtinut cu lucrarea: The effect of Enoxaparin on the vascular reactivity of the resistance arteries; Role of endothelial nitric oxide. **A. Georgescu**, D. Popov, M. Capraru, Conferinta internationala : *ELSO 2002*, de la Nice- France, June 29 –3 July 2002.

**4. Travel Grant Winner and Diploma** cu lucrarea "Obesity and insulin resistance induce structural-functional changes in small arteries of human adipose tissue. **Adriana Georgescu**, Nicoleta Alexandru, Aura Tudor, Doina Popov, Maya Simionescu", oferit la "4<sup>th</sup> European Meeting on Vascular Biology and Medicine", Bristol 17-20 septembrie 2007

**5. Premiu oferit de Comitetul de premiere pentru "the ISTH 2009 Developing World Scientist Grants"** pentru prezentarea: Elevation of endothelial and platelet microparticles in patients with chronic venous insufficiency. **A. Georgescu**, N. Alexandru, D. Popov, M. Amuzescu, E. Andrei, M. Nemezc, C. Zamfir, A. Badila, M. Simionescu, at *XXII Congress of International Society on Thrombosis and Haemostasis*, July 11-16 2009, Boston, USA.

**6. Premiul I oferit la '3rd International Congress of the Romanian Society for Cell Biology'**, Iunie 8-12, 2011, Szeged, Hungary, cu prezentarea: Circulating endothelial progenitor cells, microparticles and atherosclerosis.

**7. Premiu pentru prezentare de poster la '22<sup>nd</sup> World Congress of International Federation for the Surgery of Obesity and Metabolic Disorders', 29 August - 2 September, 2017, London, UK, cu lucrarea: Endoplasmic reticulum stress markers and autophagy in human  $\beta$ -cells exposed to sera from obese type 2 diabetic patients. (Constantin A, Dumitrescu M, Nemezc M, Alexandru N, Georgescu A, Guja C, Smeu B, Tanko G, Maya Simionescu).**

### **Premii nationale**

**1. Premiul I**, oferit de "Fundatia pentru Alimentatia Sanatoasa cu lucrarea: " AGE-dependent accumulation of advanced glycation endproducts is accelerated in combined hyperlipidemia and hyperglycemia, a process attenuated by L-arginine", **A. Georgescu**, D. Popov, In *Journal of the American Aging Association*, vol. 23, 33-40, 2000.

**2. Excellence Diploma** of the Ministry of Education and Research, bestowed to the Institute of Cellular Biology and Pathology "N. Simionescu" at the exhibition "Conceived in Romania" for the paper "Efectul inducerii simultane a hiperlipemiei si diabetului asupra modificarilor morfopatologice si functionale ale organelor tinta afectate in hipertensiune", 2002. (Popov Doina, Costache Gabriela, Georgescu Adriana, Simionescu Maya)

**3. Diploma** oferita de Academia Romana, Institutul de Biologie si Patologie Celulara "Nicolae Simionescu", pentru activitate stiintifica de succes In "The sixth frame work program of the European Community. Specific Support Action, INCO project. "Strengthening the European Research Area by Reinforcement of Romanian Research Competency in Genomics and Proteomics of Major Global Risk Diseases", 2005-2008, SERA".- September 2006.

**4. Premiu oferit de Ministerul Educatiei si Cercetarii pentru articol publicat in 2007:** Protective effects of nebivolol and reversal of endothelial dysfunction in diabetes associated with hypertension. **Adriana Georgescu**, Doina Popov, Emanuel Dragan, Elena Dragomir, Elisabeta Badila, "*European Journal of Pharmacology*", 570,149-158, 2007.

**5. Premiu oferit de Ministerul Educatiei si Cercetarii pentru articol publicat in 2008:** Nebivolol induces the hyperpolarizing effect on smooth muscle cells in the mouse renal artery by activation of the  $\beta_2$  - adrenoceptor, **A. Georgescu**, F. Pluteanu, M-L. Flonta, E. Badila, M. Dorobantu, D. Popov, accepted to "*Pharmacology*", 81:110-117, 2008.

**6. Diploma** oferita de Academia Romana, Institutul de Biologie si Patologie Celulara "Nicolae Simionescu", pentru activitate stiintifica de succes si lucrari publicate In "The sixth frame work program of the European Community. Specific Support Action, INCO project. "Strengthening the European Research Area by Reinforcement of Romanian Research Competency in Genomics and Proteomics of Major Global Risk Diseases", 2005-2008, SERA"- Martie 2008.

**7. Premiu oferit de Ministerul Educatiei si Cercetarii pentru articol publicat in 2010:** **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov, Manuela Amuzescu, Eugen Andrei, Constantin Zamfir, Horia Maniu, Adrian Badila. Chronic venous insufficiency is associated with elevated level of circulating microparticles. *Journal of Thrombosis and Haemostasis*, 7 (9): 1566-1575, 2009.

**8. Premiul "Constantin Velican" pentru contributiile remarcabile in domeniul patologiei celulare si moleculare a bolilor cardiovasculare**, oferit la A XXVIII-A Sesiune Stiintifica Anuala a Societatii Romane de Biologie Celulara, Constanta, Romania, 9- 12 iunie 2010.

**9. Premiu oferit de Ministerul Educatiei si Cercetarii pentru articol publicat in 2010:** Sadri Chahed, Aurélie S. Leroyer, Mounir Benzerroug, David Gaucher, **Adriana Georgescu**, Serge Picaud, Jean-Sébastien Silvestre, Alain Gaudric, Alain Tedgui, Pascale Massin, Chantal M. Boulange. Increased vitreous shedding of microparticles in proliferative diabetic retinopathy stimulates endothelial proliferation. *Diabetes*, 59, 694-701, 2010.

**10. Premiul "Nicolae Simionescu" acordat de Academia Romana pentru lucrarea:** Alterarea reactivitatii vasculare perturbate In diabet si posibilitatile de redresare sub actiunea unor medicamente, decembrie 2010.

**11. Premiu oferit de Ministerul Educatiei si Cercetarii (UEFISCDI) pentru articol publicat in 2011: Adriana Georgescu**, Doina Popov, Anamaria Constantin, Miruna Nemezc, Nicoleta Alexandru, Daniel Cochior, Aura Tudor. Dysfunction of human subcutaneous fat arterioles in obesity alone or obesity associated with Type 2 diabetes. *Clinical Science*, 120(10): 463-472; 2011.

**12. Premiu oferit de Ministerul Educatiei si Cercetarii (UEFISCDI) pentru articol publicat in 2011:** Nicoleta Alexandru, Doina Popov, Emanuel Dragan, Eugen Andrei, **Adriana Georgescu**. Platelet activation in hypertension associated with hypercholesterolemia; effects of Irbersartan. *Journal of Thrombosis and Haemostasis*, 9(1):173-84. 2011.

**13. Premiu oferit de Ministerul Educatiei si Cercetarii (UEFISCDI) pentru articol publicat in 2011:** Adriana Georgescu, Nicoleta Alexandru, Andrei Constantinescu, Irina Titorencu, Doina Popov.

The promise of EPCs-based therapies on vascular dysfunction in diabetes. *European Journal of Pharmacology*, 669: 1-6, 2011.

**14. Premiu oferit de Ministerul Educatiei si Cercetarii (UEFISCDI) pentru articol publicat in 2012:** Nicoleta Alexandru, Doina Popov, Adriana Georgescu. Platelet dysfunction in vascular pathologies and how can it be treated. *Thrombosis Research*, 129:116-126, 2012

**15. Premiu oferit de Ministerul Educatiei si Cercetarii (UEFISCDI) pentru articol publicat in 2012:** Adriana Georgescu, Nicoleta Alexandru, Eugen Andrei, Irina Titorencu, Emanuel Dragan, Cristina Tarzlu, Silviu Ghiorghe, Elisabeta Badila, Daniela Bartos, Doina Popov. Circulating microparticles and endothelial progenitor cells in atherosclerosis; pharmacological effects of Irbesartan. *Journal of Thrombosis and Haemostasis*, 10: 680-691, 2012.

**16. Premiu oferit de Ministerul Educatiei si Cercetarii (UEFISCDI) pentru articol publicat in 2013:** Nicoleta Alexandru, Doina Popov, Emanuel Dragan, Eugen Andrei, **Adriana Georgescu**. Circulating endothelial progenitor cell and platelet microparticle impact on platelet activation in hypertension associated with hypercholesterolemia. *PLoS One*, 8(1):e52058-e52068, 2013.

**17. Premiu oferit de Ministerul Educatiei si Cercetarii (UEFISCDI) pentru articol publicat in 2013:** **Adriana Georgescu**, Nicoleta Alexandru, Miruna Nemezc, Irina Titorencu, Doina Popov. Irbesartan administration therapeutically influences circulating endothelial progenitor cell and microparticle mobilization by involvement of pro-inflammatory cytokines. *European Journal of Pharmacology*, 711: 27-35, 2013.

**18. Premiu oferit de Ministerul Educatiei si Cercetarii (UEFISCDI) pentru teza de abilitare cu titlul:** Disfunctia endoteliala vasculara: factori de risc cardiovascular, noi biomarkeri si terapii - **Adriana Georgescu**, Decembrie 2014.

**19. Premiu oferit de Ministerul Educatiei si Cercetarii: uefiscdi/Premierea rezultatelor cercetarii in noiembrie 2015 pentru articolul:** 'Interaction of platelets with endothelial progenitor cells in the experimental atherosclerosis: Role of transplanted endothelial progenitor cells and platelet microparticles' in *Biology of the Cell*, Vol. 107(6): 189-204, 2015. (Nicoleta Alexandru, Eugen Andrei, Emanuel Dragan, **Adriana Georgescu**)

**20. Premiu oferit de Ministerul Educatiei si Cercetarii: uefiscdi/Premierea rezultatelor cercetarii in noiembrie 2015 pentru articolul:** 'Midkine in cardio-vascular disease: Where do we come from and where are we heading to?' in *European Journal of Pharmacology*, 762:464-471, 2015. (Elisabeta Bădilă, Ana Marla Daraban, Emma Țintea, Daniela Bartos, Nicoleta Alexandru, **Adriana Georgescu**).

**21. Premiu oferit de Ministerul Educatiei si Cercetarii: uefiscdi/Premierea rezultatelor cercetarii in noiembrie 2016 pentru articolul:** 'Effects of transplanted circulating endothelial progenitor cells and platelet microparticles in atherosclerosis development' in *Biology of The Cell*. 108 (8), 219-243, 2016. (**Adriana Georgescu**, Nicoleta Alexandru, Eugen Andrei, Emanuel Dragan, Daniel Cochior, Sérgio Dias)

**22. Premiu oferit de Ministerul Educatiei si Cercetarii: Uefiscdi/Premierea rezultatelor cercetarii in octombrie 2017 pentru articolul:** 'Role of microRNA in endothelial dysfunction and hypertension' in *Current Hypertension Reports*, 18(12):87, 2016. (M. Nemezc\*, N. Alexandru\*, G. Tanko, **A. Georgescu**).

**23. Premiu oferit de Ministerul Educatiei si Cercetarii: Uefiscdi/Premierea rezultatelor cercetarii in iunie 2018 pentru articolul:** 'Microparticles of healthy origins improve endothelial progenitor cell dysfunction via microRNA transfer in an atherosclerotic hamster model' in *Acta Physiologica*, 221, 230-249, 2017. (Nicoleta Alexandru, Eugen Andrei, Loredan Niculescu, Emanuel Dragan, Violeta Ristoiu, **Adriana Georgescu**).

**24. Premiu oferit de Ministerul Educatiei si Cercetarii: Uefiscdi/Premierea rezultatelor cercetarii in Decembrie 2018 pentru articolul:** 'Circulating ectosomes: Determination of angiogenic microRNAs in type 2 diabetes', in *Theranostics*, 8(14): 3874-3890, 2018. (Ewa Ł. Stępień1, Martyna Durak-Kozłca, Agnieszka Kamińska, Marta Targosz-Korecka, Marcin Libera, Grzegorz Tyłko, Agnieszka Opalińska, Maria Kapusta, Bogdan Solnica, **Adriana Georgescu**, Marina C. Costa, Agnieszka Czyżewska-Buczyńska, Wojciech Witkiewicz, Maciej T. Małecki1, Francisco J. Enguita).

**25. Premiu oferit de Ministerul Educatiei si Cercetarii: Uefiscdi/Premierea rezultatelor cercetarii in octombrie 2019 pentru articolul:** The distinct effects of palmitic and oleic acid on pancreatic beta cell function: the elucidation of associated mechanisms and effector molecules. *Frontiers in Pharmacology/Ethnopharmacology*, 9 (article1554):1-16, 2019. - FI= 3,84. (Miruna Nemezc, Alina Constantin, Madalina Dumitrescu, Nicoleta Alexandru, Alexandru Filippi, Gabriela Tanko, **Adriana Georgescu**).

**26. Premiu oferit de Ministerul Educatiei si Cercetarii: Uefiscdi/Premierea rezultatelor cercetarii** in octombrie 2019 pentru articolul: *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. Obesity Surgery*,1-13, 2019. – FI=3,60 (Alina Constantin, Mădălina Dumitrescu, Miruna Nemezc, Ariana Picu, Bogdan Smeu, Cristian Guja, Nicoleta Alexandru, **Adriana Georgescu**, Gabriela Tanko)

**27. Premiu oferit de Ministerul Educatiei si Cercetarii: Uefiscdi/Premierea rezultatelor cercetarii** in octombrie 2019 pentru articolul: *Platelets of healthy origins promote functional improvement of atherosclerotic endothelial progenitor cells. Frontiers in Pharmacology/Inflammation Pharmacology*, 10 (article 424):1-14, 2019 – FI=3,84 (Nicoleta Alexandru, Florentina Safciuc, Alina Constantin, Miruna Nemezc, Gabriela Tanko, Alexandru Filippi, Emanuel Dragan, Elisabeta Bădilă, **Adriana Georgescu**)

**28. Premiu oferit de Ministerul Educatiei si Cercetarii si Uefiscdi:** Subprogram 1.1 - Resurse Umane - Premierea rezultatelor cercetarilor - Articole, Competitia 2020. Rezultate evaluare Lista 1\_partial 2- Cereri premiere depuse pentru articole publicate in anul 2019\_09.11.2020, Noiembrie 2020 pentru articolul: *'Hypertension associated with hyperlipidemia induced different microRNA expression profiles in plasma, platelets, and platelet-derived microvesicles; effects of endothelial progenitor cell therapy'* in *'Frontiers in Medicine'*, 6 (Article 280):1-10, 2019. (N. Alexandru, A. Constantin, M. Nemezc, I.K. Comarița, A. Vilcu, A. Procopciuc, G. Tanko and A. Georgescu).

**29. Premiu oferit de Ministerul Educatiei si Cercetarii si Uefiscdi:** Subprogram 1.1 - Resurse Umane - Premierea rezultatelor cercetarii - Articole, Competitia 2020. Rezultate evaluare Lista 1\_partial 3- Cereri premiere depuse pentru articole publicate in anul 2020\_19.11.2020, Noiembrie 2020 pentru articolul: *'Intravenous administration of allogenic cell-derived microvesicles of healthy origins defends against atherosclerotic cardiovascular disease development by a direct action on endothelial progenitor cells'* in *'Cells'*, 9 (2),423:1-24, 2020. (N. Alexandru†, E. Andreit, F. Safciuc, E. Dragan, A.M. Balahura, E. Badila, A. Georgescu).

**30. Premiu oferit de Ministerul Educatiei si Cercetarii si Uefiscdi:** Subprogram 1.1 - Resurse Umane - Premierea rezultatelor cercetarii - Articole, Competitia 2020. Rezultate evaluare Lista 3 - Cereri premiere depuse pentru articole publicate in anul 2020\_27.11.2020\_ In asteptare, Noiembrie 2020 pentru articolul: *'Integrins  $\alpha\beta 1$  and  $\alpha\beta 3$  are reduced in endothelial progenitor cells from diabetic dyslipidemic mice and may represent new targets for therapy in aortic valve disease'* in *Cell Transplantation*, Volume 29:1-8, 2020. (Filippi A., Constantin A., Alexandru N., Voicu G., Constantinescu C.A., Rebleanu D., Fenyó M., Simionescu D., Simionescu A., Manduteanu I., Georgescu).

**31. 'Scientific Achievements – Original Article' Award** offered by Ministry for Education and Research and Uefiscdi, Subprogram 1.1 - Human Resources - Awarding research results - Articles, Competition 2021, Evaluation results List 2-Award applications submitted for articles published in 2020/18.11.2021 – for the paper *'Extracellular Vesicles from Adipose Tissue Stem Cells in Diabetes and Associated Cardiovascular Disease; Pathobiological Impact and Therapeutic Potential. Int. J. Mol. Sci. 21(24): 9598-9623, 2020'*. (Alina Constantin, Alexandru Filippi, Nicoleta Alexandru, Miruna Nemezc, **Adriana Georgescu**).

**32. 'Scientific Achievements – Original Article' Award** offered by Ministry for Education and Research and Uefiscdi, Subprogram 1.1 - Human Resources - Awarding research results - Articles, Competition 2020, Evaluation results List 2 - Award applications submitted for articles published in 2021/18.11.2021 – for the paper *'Extracellular Vesicles: Versatile nanomediators, potential biomarkers and therapeutic agents in atherosclerosis and COVID-19-related thrombosis. International Journal of Molecular Sciences 22(11): 5967-5994, 2021'*. (**Adriana Georgescu**, Maya Simionescu).

**33. 'Scientific Achievements – Original Article' Award** offered by Ministry for Education and Research and Uefiscdi, Subprogram 1.1 - Human Resources - Awarding research results - Articles, Competition 2020, Evaluation results List 2 - Award applications submitted for articles published in 2021/18.11.2021 – for the paper *'Extracellular vesicles—Incorporated microRNA signature as biomarker and diagnosis of prediabetes state and its complications. Rev Endocr Metab Disord, 1-24, 2021 Jun 18. doi: 10.1007/s11154-021-09664-y'*. (Nicoleta Alexandru, Anastasia Procopciuc, Alexandra Vilcu, Ioana Karla Comarița, Elisabeta Bădilă, **Adriana Georgescu**).

**34. 'Scientific Achievements – Original Article' Award** offered by Ministry for Education and Research and Uefiscdi, Subprogram 1.1 - Human Resources - Awarding research results - Articles, Competition 2020, Evaluation results List 3 - Award applications submitted for articles published in

2021/24.11.2021 – for the paper 'The multifaceted role of extracellular vesicles in glioblastoma: microRNA nanocarriers for disease progression and gene therapy. *Pharmaceutics*, 13(7): 988-1015, 2021'. (Natalia Simionescu, Radu Zonda, Anca-Roxana Petrovici, **Adriana Georgescu**).

#### **Director de proiect in proiecte internationale**

**1. 2001-2002 - Grant obtinut de la 'the Deutsche Forschungsgemeinschaft (DFG)' - Grant in colaborare cu 'Institute of Pharmacy and Food Chemistry, Friedrich-Alexander-University Erlangen-Nuremberg, Erlangen, Germany.**

**Project:** Detectarea produsilor de glicare neenzimatica a ADN celular folosind modele experimentale de animale diabetice

**2. 2012-2014 – Proiect Capacitati: ERC - tip 'Grant Suport' - proiect ID PNII-CT-ERC-2012 - 1"- grant al Autoritatii Nationale Romane pentru Cercetare Stiintifica, CNCS – UEFISCDI (Grant nr.6/18.07.2012)**

**Project:** Microparticulele plachetare circulante si celulele endoteliale progenitoare in ateroscleroza vasculara: noi implicatii patofiziologice si terapeutice - 1 500 000 RON

#### **Director de proiect in proiecte nationale**

**1. 1999- GAR – Grant nr. 31/ 1999**

**Project:** Rolul imbatranirii asocierii pe termen lung a hiperglicemiei-hiperlipemiei in formarea proteinelor glicate ireversibil. Efectul administrarii in vivo de L-arginina.- 40.000.000 ROL

**2. 1999-2000 ANSTI- – Grant nr. 881/ 10.09.1999**

**Project:** Efectul asocierii hiperlipemiei - hiperglicemiei asupra reactivitatii arterelor de rezistenta in prezenta vasoconstrictorilor PGF2alpha si potasiu. Mecanisme celulare implicate. -100.000.000 ROL

**3. 2000-GAR – Grant nr. 138/ 1.10.2000**

**Project:** Studiul mecanismelor implicate in raspunsul vascular al arterelor de rezistenta in prezenta bradikininei; Efectul hiperglicemiei-hiperlipemiei asupra relaxarii dependente de endoteliu. - 100.000.000 ROL

**4. 2000 - Grant oferit de Ministerul Cercetarii si Tehnologiei din Romania, – Grant nr.55/ 1.12.2000**

**Project:** Efectul hiperlipemiei-hiperglicemiei avansate asupra reactivitatii vasculare a arteriolelor de rezistenta in prezenta vasoconstrictorului potasiu. - 100.000.000 ROL

**5. Grant obtinut in cadrul programului VIASAN 2001 - 2002 - Grant nr. 110/ 29.10.2001**

**PROIECT:** "Efectul enoxaparinei asupra reactivitatii vasculare a arterelor de rezistenta in imbatranire si in diabet; mecanisme de actiune, rolul oxidului nitric". -700.000.000 ROL.

**6. Grant acordat de Ministerul Educatiei si Cercetarii 2001 – 2002 - Grant nr. 7051/2001**

**Project:** "Jonctiunile de comunicare si reactivitatea arterelor de rezistenta mezenterice; efectul heptanolului ". - 200.000.000 ROL

**7. Grant obtinut in cadrul programului VIASAN 2002 – 2005 - Grant nr. 171/ 7.10.2002**

**Project:** Proprietatile farmacologice si mecanismele celulare implicate in actiunea nebivololului asupra arterei renale in diabet; date experimentale.- 500.000.000 ROL.

**8. Grant obtinut in cadrul programului Viasan 2004 – 2006 – Grant ro. 347/ 1.10.2004**

**Project:** Efectul enoxaparinei (heparina de greutate moleculara mica) in restablirea disfunctiei endoteliului vascular in imbatranire si diabet; implicarea kinazelor activate de factori mitogeni evidentiata prin modificarea exprimarii genei c-fos si a factorului de transcriptie AP-1- 800.000.000 ROL

**9. Grant obtinut in cadrul programului "Cercetare de Excelenta pentru tineri cercetatori"(CEEX), oferit de Ministerul Educatiei si Cercetarii din Romania, 2006 – 2008 - Grant nr. 15121/2006**

**Project:** Efectul nivelelor crescute de microparticule membranare eliberate asupra functiei venelor periferice la pacientii cu insuficienta venoasa cronica – 40.000 euro

**10. Programul National pentru Cercetare – Dezvoltare si Inovare 2 (PNCDI-2), CENTRUL NATIONAL DE MANAGEMENT PROGRAME – CNMP- Programul 4 – Parteneriate in domeniile prioritare. Directia de cercetare: Sănătate – 2008-2011- Grant nr. 42138/ 1.10.2008**

**Project:** Raportul dintre microparticulele circulante si celulele endoteliale progenitoare, un nou marker celular al disfunctiilor endoteliale induse de asocierea dintre hipertensiune si hipercolesterolemie; efectul anti-aterosclerotic al irbersartanului – 2 000 000 RON

**11. Programul National pentru Cercetare – Dezvoltare si Inovare 2 (PNCDI-2) –** Ministerul Educatiei, Cercetarii si Tineretului, Autoritatea Nationala Pentru Cercetare Stiintifica, **Programul 1 - Idei** -Proiecte de cercetare exploratorie – **2008-2011 - Grant nr. 1159/19.01.2009**

**Proiect:** Complicatiile vasculare ale arteriolelor la pacientii cu obezitate asociata sau nu diabetului de tip 2; disfunctiile endoteliale si rezistenta la insulina – 1 000 000 RON

**12. 2015-2017:** Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS –UEFISCDI, Program RESURSE UMANE, Proiecte de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente (TE), Competitie 2014, Numar proiect: PN-II-RU-TE-2014-4-0525: *Grant nr.79/01.10.2015*

**Proiect:** Microparticulele ca strategii de transport intracelular pentru microARN-uri si potientiale terapii pentru boala vasculara aterosclerotica - *proiectul a fost finantat cu suma de: 550 000 lei*

**13. 2018-2021 – Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS-UEFISCDI, - Proiecte Complexe Realizate în Consorții CDI (PCCDI) - Program 1. Dezvoltarea sistemului national de cercetare dezvoltare, Subprogram 1.2. Performanță instituțională – “Proiecte de dezvoltare instituțională”**

**Proiect nr. PN-III-P1-1.2-PCCDI-2017-0527/Contract nr. 83 PCCDI/2018 - Titlu Proiect:** Dezvoltarea de BIONanotehnologii bazate pe Veziculele Extracelulare, aplicabile in diagnosticul precoce, prognosticul si terapia bolii Aterosclerotice; **Acronim proiect:** BIOVEA - *proiectul a fost finantat cu 5.287.500,00 lei*

#### **Mentor pentru proiecte nationale de tip PD**

**1. 2018-2020 – Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS-UEFISCDI - Proiecte de Cercetare Postdoctorala (PD) - Program 1. Dezvoltarea sistemului national de cercetare dezvoltare, Subprogram 1.1. Resurse Umane.**

**Cod Proiect** PN-III P1-1.1-PD-2016-1660/ **Nr. Contact.** 19/2018- **Titlu Proiect:** Ingineria tissulara a vaselor de sange

utilizand bioprintarea tridimensionala a celulelor progenitoare endoteliale si musculare;

**Acronim proiect:** BIOPRINT - *proiectul a fost finantat cu 250000 lei*

**2. 2020-2022-Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS-UEFISCDI - Proiecte de Cercetare Postdoctorala (PD) - Program 1. Dezvoltarea sistemului national de cercetare dezvoltare, Subprogram 1.1. Resurse Umane.**

**Cod Proiect** PN-III-P1-1.1-PD-2019-0283/ **Nr. Contact** 155/2020 - **Titlu Proiect:** MicroARN-urile asociate microveziculelor ca noi biomarkeri potentiali pentru predictia riscului si diagnosticul timpuriu al recidivei glioblastomului. **Acronim proiect:** MICROGLIO - *proiectul a fost finantat cu 246950 lei*

#### **Colaborator in granturi internationale**

**1. 2001-2005- Grant in FP5, Nr. ICA1-CT-2000-70020**

Function and dysfunction of blood vessels: transcytosis in normal/pathological states, alterations in atherosclerosis and diabetes; their therapeutic control - Collaborator in the project.

**2. International Project: SERA 2005-2009**

"Specific Support Action, PC6, Strengthening the European Research Area by Reinforcement of Romanian Research Competency in Genomics and Proteomics of Major Global Risk Diseases: Atherosclerosis, Diabetes and its Complications" Collaborator in the project.

**3. COST PROGRAMME, 2008-2011.**

**The project:** Adipose tissue cells dialogue in obesity, diabetes and inflammation; search for molecules of pharmacological potential in reducing adipose tissue inflammatory proteins. **Collaborator in the project**

**4. 2010-2012.** Proiect finantat de *Fondul Social European - Program de burse postdoctorale „Cristofor I. Simionescu” (ID POSDRU/89/1.5/S/55216), Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013.*

Domeniul de cercetare postdoctorat, BIOMATERIALE', subdomeniul științific, MATERIALE PENTRU INGINERIE TISULARA SI IMPLANTOLOGIE', tema de cercetare postdoctorat, *Identificarea de noi biomarkeri ai disfuncției endoteliale; strategii pentru recuperarea funcției peretelui vascular'.*

**5. COST PROGRAMME, 25/05/2021-05/10/2025 - Working Group(s) of COST Action CA20117 -** Converting molecular profiles of myeloid cells into biomarkers for inflammation and cancer (Mye-InfoBank) - Working Group Member – Adriana Georgescu

- 6. COST PROGRAMME, 25/05/2021-03/10/2025 - Working Group(s) of COST Action CA20110 - RNA communication across kingdoms: new mechanisms and strategies in pathogen control (exRNA-PATH) - Working Group Member – Adriana Georgescu**
- 7. COST PROGRAMME, 27/05/2022-18/10/2026 - Working Group(s) of COST Action CA21153 - Network for implementing multiomics approaches in atherosclerotic cardiovascular disease prevention and research (AtheroNET) - Working Group Member – Adriana Georgescu**

#### **Colaborator in proiecte nationale**

- 1. 1997- CNCSU-**Influenta hiperlipemiei si diabetului Induse experimental asupra reactivitatii vasculare si structurii vaselor de rezistenta
- 2. 1998- MCT-** Detectarea glicarii ireversibile a proteinelor si interactia cu endoteliul [n diabetul experimental indus pe termen lung. Efectul diabetului indus experimental asupra structurii endoteliului si celulelor musculare netede din vene si artere.
- 3. 1998- GAR-** Efectul inducerii simultane a hiperglicemiei si hiperlipemiei asupra reactivitatii arterelor de rezistenta.
- 4. 1999- ANSTI-** Efectul inducerii simultane a hiperlipemiei si diabetului asupra modificarilor morfopatologice si functionale ale organelor tinta afectate In hipertensiune.
- 5. Grant obtinut in cadrul programului VIASAN 2001-2003**  
Modificari cardiovasculare asociate diabetului de tip I la soareci dublu transgenici.
- 6. Grant obtinut in cadrul programului VIASAN 2001-2003**  
PROIECT : Directionarea medicamentelor tintita catre endoteliul vascular activat utilizand liposomi "inteligenti": o strategie pentru terapia bolilor cardiovasculare. – Colaborator
- 7. Grant acordat de Academia Romana (GAR) 2003-2004**  
PROIECT: Studiul efectului administrarii de superoxid dismutaza incorporata in liposomi asupra reactivitatii arterelor mezenterice izolate de la hamsteri diabetici.
- 8. Grant obtinut in cadrul programului VIASAN 2003 - 2005**  
PROIECT: Mecanismele de modulare a canalelor ionice activate de acidoza tisulara in fibrele nervoase periferice si vasele de sange
- 9. Grant obtinut in cadrul programului CERES 2003 - 2005**  
Proiect: Studii asupra vasculaturii cerebrale in procesul de imbatranire"
- 10. Grant obtinut in cadrul programului Viasan 2004 - 2006**  
Proiect: Adiponectina - mediator in semnalizarea intracelulara activata de insulina; implicatii clinice in obezitatea asociata cu diabetul de tip II
- 11. Grant obtinut in cadrul programului "Cercetare de Excelenta" 2005 – 2007**  
Proiect: Alterarea mecanismelor celulare si moleculare si a expresiei genice in boli cardiovasculare si diabet/obezitate, afectiuni majore ale sindromului metabolic - cercetari fundamentale si clinice.
- 12. Grant obtinut in cadrul programului "Cercetare de Excelenta" 2005 – 2007**  
Proiect:Terapia cu celule stem pentru regenerare si constructie vasculara"
- 13. Grant obtinut in cadrul programului "Cercetare de Excelenta" 2006 – 2008**  
Proiect: Caila de semnalizare implicate in expresia fractalkinei Indusa de hiperglicemie, ca tinta terapeutica in dezvoltarea terapiei in patologia cardiovasculara asociata cu diabetul
- 14. Grant obtinut in cadrul programului "Cercetare de Excelenta" -Postdoc Nr. 1530/2006-2008, 205066 RON**  
Titlu: Studiul mecanismelor moleculare ale neuropatiei diabetice pe culturi de neuroni din ganglionii spinali mentinuti in conditii diabetice.
- 15. Programul National pentru Cercetare – Dezvoltare si Inovare 2 (PNCDI-2), CENTRUL NATIONAL DE MANAGEMENT PROGRAME – CNMP- Programul 4 – Parteneriate in domeniile prioritare. Directia de cercetare: Sănătate – 2007-2010**  
Proiect: Banca de celule stem crioconservate pentru cercetare si transplant autolog
- 16. Programul National pentru Cercetare – Dezvoltare si Inovare 2 (PNCDI-2) – Ministerul Educatiei, Cercetarii si Tineretului, Autoritatea Nationala Pentru Cercetare Stiintifica, Programul 1 - Idei -Proiecte de cercetare exploratorie – 2008-2011**  
Proiect: Studiul mecanismelor moleculare prin care hiperlipidemia si hiperglicemia Induc alterarea reactivitatii vasculare.
- 17. 2014-2017 - Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS –UEFISCDI, Programul PNII-Parteneriate in Domenii Prioritare. Numar proiect: PN-II-PT-PCCA-2013-4-0816 – Titlu Proiect: Proiectarea rațională și sinteza de structuri bioactive inteligente pentru tratamentul personalizat al rănilor cutanate acute și cronice (ZETTAskin)**

**18. 2015-2017:** Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS -UEFISCDI, Program RESURSE UMANE, Proiecte de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente (TE), Competitie 2014, Numar proiect: PN-II-RU-TE-2014-4-0523: *Grant nr 80/01.10.2015*

**Proiect:** Noi perspective in relatia plachete-celule progenitoare endoteliale in boala aterosclerotica - *proiectul a fost finantat cu suma de: 550 000 lei*

**19. 2014-2017:** Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS -UEFISCDI, Programul PNII-Parteneriate in Domenii Prioritare. Numar proiect: PN-II-PT-PCCA-2013-4-2267: *Grant nr. 271/2014*

**Titlu Proiect:** Obtinerea de implante biodegradabile din aliaje de magneziu, utilizabile in chirurgia gleznei si a piciorului.

**20. 2016 - 2020 MECS - ANCSI (ORGANISMUL INTERMEDIAR PENTRU CERCETARE): Programul Operational Competitivitate 2014-2020. Axa Prioritara 1 - Cercetare, Dezvoltare Tehnologica Si Inovare (Cdi) In Sprijinul Competitivitatii Economice Si Dezvoltarii Afacerilor. Actiunea 1.1.4 Atragerea de personal cu competente avansate din strainatate pentru consolidarea capacitatii de CD.**

**Titlu Proiect:** Terapii tintite pentru boala valvei aortice In diabet. **Contract nr.115/13.09.2016/ Cod proiect:** 104362. **Specialist al echipei de implementare a proiectului:** Dr. Adriana Georgescu; **Director Executiv:** Dr. Ileana Manduteanu; **Director de Proiect:** Dr. Agneta Simionescu, - *proiectul a fost finantat cu suma de: 8 657 500 lei.*

**21. 2018-2020 - Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS-UEFISCDI, - Proiecte Complexe Realizate in Consorții CDI (PCCDI) - Program 1. Dezvoltarea sistemului national de cercetare dezvoltare, Subprogram 1.2. Performanță Instituțională - "Proiecte de dezvoltare instituțională"**

**Proiect nr. PN-III-P1-1.2-PCCDI-2017-0749 - Titlu Proiect:** Nanostructuri bioactive pentru strategii terapeutice inovatoare.

**22. 2018-2020 - Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS-UEFISCDI, - Proiecte Complexe Realizate in Consorții CDI (PCCDI) - Program 1. Dezvoltarea sistemului national de cercetare dezvoltare, Subprogram 1.2. Performanță instituțională - "Proiecte de dezvoltare instituțională"**

**Proiect nr. PN-III-P1-1.2-PCCDI-2017-0797/ Contract de finanțare nr.66PCCDI/2018**

**Titlu Proiect:** Mecanisme patogenice si tratamentul personalizat in cancerul de pancreas utilizând tehnologii multi-omice. **Acronim Proiect:** PANCNCS, - *proiectul a fost finantat cu 5.287.500,00 lei*

**23. 2020-2024 - Grant acordat de Autoritatea Nationala Pentru Cercetare Stiintifica si Inovare, CNCS-UEFISCDI, Program RESURSE UMANE, Proiecte de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente (TE), Competitie 2019, Numar proiect: PN-III-P1-1.1-TE-2019-0811/ Grant no. 97/14.09.2020**

**Titlu proiect:** Modularea imuna a celulelor T de catre plachete si microvezicule plachetare in ateroscleroza indusa experimental; rolul microRNA142-3p; **Acronim Proiect:** IMPLEXIA, - *proiectul a fost finantat cu suma de: 431.900 lei*

### **Cursuri**

**1.** "International workshop on modern spectroscopic techniques in biophysics", 1st-5th June **1998**, Neptun, Romania.

**2.** "International workshop on new biophysical methods in biology and medicine", 26-30th September **2000**, Neptun, Romania

**3.** Participarea la trei cursuri necesare pentru pregatirea postdoctorala: Institutul de Chimie Macromoleculara Petru Poni, Iasi, 1-5 noiembrie **2010**.

1. „Chimia macromoleculara la granita dintre clasic si modern. Biomateriale polimerice”,
2. „Reologia materialelor polimerice”
3. „Managementul proiectelor”.

**4.** Participarea la cursul international de specializare de primavara cu titlul: Materiale Polimerice Bioactive/Biocompatibile, la Centrul de Polimeri si Materiale de Carbon al Academiei de Stiinta Poloneze, 6-13 martie **2011**, Zabrze, Polonia.

**5.** Summer School 'Inflammation and Cardiovascular Disease', Obergurgl, Austria, September 29 - October 2, **2011**,

### **Presentations:**



Relationship of circulating microparticles to endothelial progenitor cells as a new marker of vascular atherosclerosis; the effect of irbesartan **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov, Eugen Andrei, Irina Titorencu, Emanuel Dragan, Cristina Tarziu, Silviu Ghiorghe, Elisabeta Badila, Daniela Bartos, Maya Simionescu

The Effect of Antioxidants on High Glucose and Platelet Derived Growth Factor Stimulated Human Vascular Smooth Muscle Cells. Miruna Nemezc, **Adriana Georgescu**, Doina Popov

6. Scoala de vara pe tema 'Biomaterials and Regenerative Medicine: from molecular and cell biology to tissues and organs repair', Riva del Garda, Italia, September 19-23, 2011.

**Presentation:**

Titorencu I., Albu M. G., Anton F., **Georgescu A.**, Jlnca V. V. and Simionescu M., "Collagen - dexamethasone and collagen-D<sub>3</sub> scaffolds for bone tissue engineering"

7. Scoala de toamna: "Biomateriale. Tendințe actuale și perspective", Busteni, Romania, 9-13 noiembrie 2011.

8. Workshop: "Open Problems in Systems Chemistry", Institut Européen des Membranes (CNRS/École Nationale Supérieure de Chimie Montpellier/Université Montpellier II), Montpellier, Franta, 22-27 Ianuarie 2012.

9. COST Action: CA21153 - Network for implementing multiomics approaches in atherosclerotic cardiovascular disease prevention and research. Event title: 1st Meeting of the AtheroNET COST Action (with MC meeting). Location: Institute of Cellular Biology and Pathology "Nicolae Simionescu", 8, B.P. Hasdeu Street, Bucharest, Romania. Event Type: Meeting (Management Committee, Workshop/Conference. "Workshops/Conferences": from 22/03/2023 at 10:30 to 24/03/2023 at 13:00

**Lucrari (postere) prezentate la Conferinta Internationale**

1. M. Hasu, **A. Georgescu**, G. Costache, V. V. Jlnca, Maya Simionescu. Hyperlipidemia and hyperglycemia alter the structure and function of hamster small arteries. *European Congress for Molecular Cell Biology*, Brighton, England, March 22<sup>nd</sup> - 25<sup>th</sup>, 1997.

2. G. Costache, **A. Georgescu**, M. Cenuse, D. Popov, M. Simionescu. Alterations of resistance vessels and capillaries in hyperlipemic-hyperglycemic hamsters. *70<sup>th</sup> EAS Congress Geneva*, Sept. 6-9, 1998.

3. **A. Georgescu**, G. Costache, D. Popov, M. Simionescu. The abnormal responses to PGF<sub>2α</sub> and potassium of the mesenteric resistance arteries in hyperlipemic-hyperglycemic hamsters. *Third European Research Conference on Blood Pressure and Cardiovascular Disease, Noordwijkerhout, The Netherlands*, Oct. 16-18, 1998.

4. D. Popov, G. Costache, **A. Georgescu**, M. Cenuse, M. Simionescu. In hyperlipemic-hyperglycemic hamsters the micro and macroangiopathic alterations are accompanied by modifications that may lead to an increased blood pressure. *Third European Research Conference on Blood Pressure and Cardiovascular Disease, Noordwijkerhout, The Netherlands*, Oct. 16-18, 1998.

5. **A. Georgescu**, D. Popov, E. Constantinescu, G. Costache, M. Simionescu. Gap junctions: the role of intercellular communication on vasomotor tone. *First International Congress of the Romanian Society for Cell Biology*, 7-10 June 2000, Iasi, in Buletinul SNBC, pag. 41.

6. G. Costache, D. Popov, **A. Georgescu**, M. Enache, L. Simion, M. Simionescu. Modulation by clotrimazole of the vascular reactivity of hamster resistance arteries. *First International Congress of the Romanian Society for Cell Biology*, 7-10 June 2000, Iasi,

7. D. Popov, G. Costache, **A. Georgescu**, M. Enache. Beneficial effect of L-arginine supplementation in experimental hyperlipemia-diabetes. *Nato Advanced Study Institute Vascular Endothelium: Source and Target of Inflammatory Mediators*, June 24-July 3, 2000 Knossos Royal Village, Crete, Greece.

8. G. Costache, D. Popov, **A. Georgescu**, M. Enache, L. Simion, M. Simionescu. Modulation by clotrimazole of the vascular reactivity of hamster resistance arteries. *Nato Advanced Study Institute Vascular Endothelium: Source and Target of Inflammatory Mediators*, June 24-July 3, 2000 Knossos Royal Village, Crete, Greece.

9. **A. Georgescu**, D. Popov, G. Costache, M. Simionescu. The effect of combined hyperlipemia-hyperglycemia on the reactivity of resistance arteries to noradrenaline and bradykinine; the modulation of dysfunctions by oral administration of L-arginine. *XI International Vascular Biology Meeting, Geneva-Switzerland*, September 5-9, 2000.

10. D. Popov, G. Costache, **A. Georgescu**, M. Enache, M. Simionescu. Mechanisms of the impeded relaxation of the resistance arteries in hyperlipemia-hyperglycemia. *5<sup>th</sup> Annual Meeting of the European Council for Blood Pressure and Cardiovascular Research (ECCR)*, Noordwijkerhout, The Netherlands, 13-15 Oct 2000.

11. **A. Georgescu**, D. Popov, E. Constantinescu, G. Costache, L. Simion. Gap junctional communication and reactivity of the mesenteric resistance arteries: effect of heptanol. *12<sup>th</sup> BBBB Balkan Biochemical Biophysical Days*, Bucharest, May 10-13, 2001.
12. D. Popov, G. Costache, **A. Georgescu**, M. Simionescu. Mechanisms of the impeded relaxation of the resistance arteries in hyperlipemia-hyperglycemia. a-III-a Conferinta Internationala "Romania si romanii In stinta contemporana", Sinaia, 12-17 June, 2001, p.73.
13. C. Stavaru, **A. Georgescu**, D. Popov, C. Coman, D.L. Radu. Transgenic Mouse Model of Type I Diabetes. *al XXVIII-lea Congres National de Diabet, Nutritie si Boli Metabolice cu Participare Internationala*, 15-18 Mai 2002, Bucharest, in *Acta Diabetologica Romana*, vol. 28, nr. 1, 2002.
14. **A. Georgescu**, D. Popov, M. Capraru\*. The effect of Enoxaparin on the vascular reactivity of the resistance arteries; Role of endothelial nitric oxide. *ELSO 2002, Nice- France*, June 29 -3 July 2002.
15. M. Simionescu, A. Sima, D. Popov, I. Manduteanu, M. Voinea, **A. Georgescu**. Effect of hyperlipemia and hyperglycemia on the vascular endothelium. "*Cardiovascular dysfunction in hyperlipemia and diabetes*" Workshop, Bucharest, 10-13 October 2002, pp. 18.
16. D. Popov, **A. Georgescu**, G. Costache, A. Carale, Peter Shepherd. High glucose-induced events that contribute to vascular dysfunction. "*Cardiovascular dysfunction in hyperlipemia and diabetes*" Workshop, Bucharest, 10-13 October 2002, pp. 25.
17. **A. Georgescu**, D. Popov, M. Capraru, M. Simionescu. Effect of enoxaparin on the reactivity of the resistance arteries; the role of endothelial nitric oxide. "*Cardiovascular dysfunction in hyperlipemia and diabetes*" Workshop, Bucharest, 10-13 October 2002, pp. 31.
18. C. Stavaru, **A. Georgescu**, D. Popov, C. Coman, D.L. Radu. Monitoring of type 1 diabetes in transgenic mouse model. "*Cardiovascular dysfunction in hyperlipemia and diabetes*" Workshop, Bucharest, 10-13 October 2002, pp.48.
19. C. Stavaru, **A. Georgescu**, D. Popov, C. Coman, D.L. Radu. Transgenic mouse model of type 1 diabetes. *The 32<sup>nd</sup> Annual Meeting of the Society for Immunology*, December 4-6, 2002, Tokyo, Japan.
20. Marc Schneider, **Adriana Georgescu**, Rose Kientsch-Engel, Peter Stahl, Doina Popov, Monika Pischetsrieder. New results on DNA glycation. *Second Symposium on Advanced Glycation End Products (AGEs)*, may 9-11, 2003, Jena, Germany.
21. **A. Georgescu**, E. Badila, D. Popov, M. Dorobantu, M. Simionescu. The effect of nebivolol on the altered vascular reactivity of the renal artery in diabetic mouse. *The Thirteenth European Meeting on Hypertension*, June 13-16, 2003, Milan, Italy.
22. **Adriana Georgescu**, Doina Popov, Monica Capraru, Maya Simionescu. Enoxaparin - a low molecular weight heparin, restores the altered vascular reactivity of resistance arteries in aged and aged-diabetic hamsters. *ELSO 2003, Dresden- Germany*, september 20 -24, 2003.
23. M. Voinea, **A. Georgescu**, A. Manea, E. Dragomir, I. Manduteanu, D. Popov, M. Simionescu. Superoxide dismutase entrapped-liposomes restore the impaired endothelium-dependent relaxation of resistance arteries in experimental diabetes. *ELSO 2003, Dresden- Germany*, september 20 -24, 2003.
24. **A. Georgescu**, F. Pluteanu, M-L. Flonta, E. Badila, M. Dorobantu, D. Popov. The cellular mechanisms involved in the vasodilator effect of nebivolol on the renal artery. *25 years Anniversary Workshop "Cell and Molecular Biology a Key to Defeat Global Risk Diseases: Atherosclerosis, Diabetes and Immune Disorders"*, Bucharest-Romania, september 8-12, 2004.
25. **Adriana Georgescu**, Doina Popov, Florentina Pluteanu<sup>1</sup>, Maria-Luisa Flonta<sup>1</sup>, Elisabeta Badila<sup>2</sup>, Maria Dorobantu<sup>2</sup>, Maya Simionescu. The cellular mechanisms involved in the vasodilator effect of nebivolol on the renal artery. *XV International Symposium on DRUGS AFFECTING LIPID METABOLISM*, Venice- Italy, October 24-27, 2004.
26. **Adriana Georgescu**, Doina Popov, Florentina Pluteanu, Maria-Luisa Flonta, Elisabeta Badila, Maya Simionescu. The cellular mechanisms involved in the vasodilator effect of nebivolol on the renal artery. "*15<sup>th</sup> official scientific meeting of the European Society of Hypertension (ESH)*", Milano, Italy, p.239, June 17 - 21, 2005.
27. **Adriana Georgescu**, Florentina Pluteanu, Maria-Luisa Flonta, Elisabeta Badila, Maria Dorobantu, Doina Popov. The cellular mechanisms involved in the vasodilator effect of nebivolol on the renal artery. "*8<sup>th</sup> International Conference Vascular Endothelium: Translating Discoveries into Public Health Practice*", Knossos Royal Village, Greece, pp. 68, June 25 - July 2, 2005.
28. **Adriana Georgescu**, Doina Popov, Elena Dragomir, Emanuel Dragan, Maya Simionescu. Protective role of nebivolol on the renal artery dysfunction in diabetes associated with hypertension;

molecular mechanisms involved. Workshop of CDRTU "Combating Cardiovascular Disease and Diabetes", Bucharest, Romania, April 27-29, 2006.

**29. Anamaria Grigore, Adriana Georgescu, Nicoleta Alexandru, Doina Popov.** The structural and functional changes of the small arteries isolated from human adipose tissue in obesity and insulin resistance. Workshop of CDRTU "Combating Cardiovascular Disease and Diabetes", Bucharest, Romania, April 27-29 2006.

**30. Adriana Georgescu, Doina Popov, Elena Dragomir, Emanuel Dragan, Maya Simionescu.** Protective role of nebivolol on the renal artery dysfunction in diabetes associated with hypertension; molecular mechanisms involved. *The 2<sup>nd</sup> International Congress of the Romanian Society for Cell Biology*, Iasi, abstract book pp. 36, June 8-10, 2006.

**31. Anamaria Grigore, Adriana Georgescu, Aurica Tudor\*, Nicoleta Alexandru, Doina Popov.** The structural and functional changes of the small arteries isolated from human adipose tissue in obesity and insulin resistance. *The 2<sup>nd</sup> International Congress of the Romanian Society for Cell Biology*, Iasi, abstract book pp. 37, June 8-10, 2006.

**32. Adriana Georgescu, Doina Popov, Elena Dragomir, Ciprian Neagoe, Maya Simionescu.** Protective role of nebivolol on the vascular dysfunction in diabetes associated to hypertension; the involved molecular mechanisms. *Sixteenth European Meeting on Hypertension*, Madrid, pp. 389, June 12-15, 2006.

**33. A. Georgescu, D. Popov, E. Dragomir, E. Dragan, M. Simionescu.** Nebivolol protects and reverses endothelial dysfunction in diabetes associated with hypertension; molecular mechanisms involved. *The 24<sup>th</sup> Conference of the European Society for Microcirculation, Amsterdam, The Netherlands*, August 30 - September 2, in *Journal of Vascular Research*, 43 (suppl.1), pp. 81, 2006.

**34. Adriana Georgescu, Nicoleta Alexandru, Aura Tudor, Doina Popov, Maya Simionescu.** The structural and functional changes of the small arteries isolated from human adipose tissue in obesity and insulin resistance. *The International Symposium "Novel trends in cell and molecular biopathology"*, Bucharest, 16 February 2007.

**35. Adriana Georgescu, Nicoleta Alexandru, Aura Tudor, Doina Popov, Maya Simionescu.** Obesity and insulin resistance induce structural-functional changes in small arteries of human adipose tissue. *Romanian Society for Cell Biology at 25 years Anniversary; Anniversary workshop "From Basic Science to Therapeutic Applications"*, Bucharest 6-10 June 2007, in Book of Abstracts, p. 37.

**36. Adriana Georgescu, Doina Popov, Nicoleta Alexandru, Aura Tudor, Maya Simionescu.** Structural and functional assessment of small arteries in obesity and type II diabetes. *Atherosclerosis Supplements*, volume 8, issue 1, p. 229, June 2007, at *76th Congress of the European Atherosclerosis Society*, June 10-13, 2007, Helsinki, Finland.

**37. Adriana Georgescu, Nicoleta Alexandru, Aura Tudor, Doina Popov, Maya Simionescu.** Obesity and insulin resistance induce structural-functional changes in small arteries of human adipose tissue. *4th European Meeting on Vascular Biology and Medicine*, Bristol 17-20 September 2007, in Book of Abstracts, p. 261.

**38. Adriana Georgescu, Nicoleta Alexandru, Doina Popov, Manuela Amuzescu, Miruna Nemezc, Constantin Zamfir, Horia Maniu, Adrian Badila.** Chronic venous insufficiency is associated with elevated level of circulating microparticles. *Journal of Vascular Research*, vol. 45, supplements 2, p.146, at *"25th Conference of the European Society for Microcirculation: Integrating Vascular Biology & Medicine Basic and Clinical Science"*, Budapest, Hungary, 26-29 August 2008.

**39. Adriana Georgescu, Nicoleta Alexandru, Doina Popov, Manuela Amuzescu, Miruna Nemezc, Eugen Andrei, Constantin Zamfir, Horia Maniu, Adrian Badila, Maya Simionescu.** Elevated level of circulating microparticles in chronic venous insufficiency. "Biomedicine Workshop, *From fundamental research to therapeutic applications*", *Conference, Diaspora in Romanian Sciences Research*, 17-18 September 2008, Bucharest, Romania, in Book of Abstracts, p. 31.

**40. Adriana Georgescu, Nicoleta Alexandru, Doina Popov, Manuela Amuzescu, Miruna Nemezc, Constantin Zamfir, Horia Maniu, Adrian Badila.** Chronic venous insufficiency is associated with elevated level of circulating microparticles. *Journal of Clinical Lipidology*, vol. 2, no. 5S, p. 64-67, At *7<sup>th</sup> International Symposium on "MULTIPLE RISK FACTORS IN CARDIOVASCULAR DISEASES - Prevention and Intervention - Heath Policy"*, October 22-25, 2008, Venice, Italy.

**41. M. Nemezc, A. Georgescu, D. Popov.** Protein Tyrosine Phosphatase 1B expression in the smooth muscle cells in aorta in hyperglycemia conditions. "Biomedicine Workshop, *From fundamental research to therapeutic applications*", *Conference, Diaspora in Romanian Sciences Research*, 17-18 September 2008, Bucharest, Romania

42. **A. Georgescu**, N. Alexandru, D. Popov, M. Amuzescu, E. Andrei, M. Nemezc, C. Zamfir, A. Badila, M. Simionescu. Elevation of endothelial and platelet microparticles in patients with chronic venous insufficiency. *XXII Congress of International Society on Thrombosis and Haemostasis*, July 11-16 2009, Boston, USA.
43. L-D. Popov, M. Nemezc, M. Dumitrescu, **A. Georgescu**, F. D. Böhmer. Long time culture of human aortic smooth muscle cells in high glucose concentration up-regulates ERK1/2 activation and PTP1B protein expression. *45th EASD Annual Meeting*, Vienna, Austria, 29.09.2009-02.10.2009, published in *Diabetologia*, 52, Suppl. 1, p.S515, nr. 1336, 2009.
44. Nicoleta Alexandru, **Adriana Georgescu**, Doina Popov, Eugen Andrei, Emanuel Dragan, Maya Simionescu. Irbesartan reduces platelets activation in hypertensive-hypercholesterolemic hamster, 'the 78th European Atherosclerosis Society Congress', Hamburg, Germany, in *Atherosclerosis Supplements*, Volume 11, Issue 2, Page 181-182, June 20 - 23, 2010.
45. **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov, Eugen Andrei, Irina Titorencu, Emanuel Dragan, Maya Simionescu. Microparticles and endothelial progenitor cells as markers of vascular dysfunction induced by combined hypertension and hypercholesterolemia. Diaspora in scientific research and in high education. Exploratory Workshop 'Tendencies and emergences in Stem Cell Biology and Embryology Research', Bucharest, Romania, September 22, 23, 2010.
46. **Adriana Georgescu**, Nicoleta Alexandru, Eugen Andrei, Irina Titorencu, Emanuel Dragan, Cristina Tarziu, Silviu Ghiorghe, Elisabeta Badila, Daniela Bartos, Doina Popov. The effect of irbesartan on the development of vascular atherosclerosis; the ratio of circulating microparticles to endothelial progenitor cells, '6th Assay & Drug Discovery Technologies Conference', San Francisco, USA, July 7-9, 2011.
47. **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov, Eugen Andrei, Irina Titorencu, Emanuel Dragan, Cristina Tarziu, Silviu Ghiorghe, Elisabeta Badila, Daniela Bartos, Maya Simionescu. Circulating endothelial progenitor cells, microparticles and atherosclerosis, at '3rd International Congress of the Romanian Society for Cell Biology', Arad, Romania, in Book of Abstracts, No. 39, p. 148-149, June 8-12, 2011.
48. Nicoleta Alexandru, Doina Popov, Eugen Andrei, Emanuel Dragan, **Adriana Georgescu**. Modifications induced by hypertension associated with hypercholesterolemia on platelets and the beneficial effects of Irbesartan, '6th Assay & Drug Discovery Technologies Conference', San Francisco, USA, July 7-9, 2011.
49. Nicoleta Alexandru, **Adriana Georgescu**, Manuela Amuzescu, Constantin Zamfir, Adrian Badila, Doina Popov. The mechanism of platelet activation in chronic venous insufficiency, at '3rd International Congress of the Romanian Society for Cell Biology', Arad, Romania, in Book of Abstracts, No. 39, p.151, June 8-12, 2011.
50. Irina Titorencu, Madalina Georgiana Albu, Fica Anton, **Adriana Georgescu**, Victor Jinga, Maya Simionescu. Collagen-dexamethasone and collagen-D<sub>3</sub> scaffolds for bone tissue engineering, at '3rd International Congress of the Romanian Society for Cell Biology', Arad, Romania, Book of Abstracts, No. 39, p.150, June 8-12, 2011.
51. Miruna Nemezc, **Adriana Georgescu**, Doina Popov. Influence of antioxidants on human vascular smooth muscle cells grown in high glucose, at '3rd International Congress of the Romanian Society for Cell Biology', Arad, Romania, Book of Abstracts, No. 39, p.91. June 8-12, 2011.
52. Titorencu I, Albu M. G., Anton F, **Georgescu A**, Jinga VV, Simionescu M. Collagen - dexamethasone and collagen-D<sub>3</sub> scaffolds for bone tissue engineering. 'School on Biomaterials and Regenerative Medicine: from molecular and cell biology to tissues and organs repair', Riva del Garda, Italia, September 19-23, 2011.
53. N. Alexandru, E. Dragan, E. Andrei, D. Popov, **A. Georgescu**. Platelet activation in atherosclerosis and the effects of irbesartan treatment. 'Inflammation and Cardiovascular Disease' Summer School, Obergurgl, Austria, September 29 - October 2, 2011.
54. **A. Georgescu**, N. Alexandru, D. Popov, Eugen Andrei, I. Titorencu, E. Dragan, C. Tarziu, S. Ghiorghe, E. Badila, D. Bartos, M. Simionescu. Relationship of circulating microparticles to endothelial progenitor cells as a new marker of vascular atherosclerosis; the effect of irbesartan. 'Inflammation and Cardiovascular Disease' Summer School, Obergurgl, Austria, September 29 - October 2, 2011.
55. Miruna Nemezc, **Adriana Georgescu**, Doina Popov. The effect of antioxidants on high glucose and platelet derived growth factor stimulated human vascular smooth muscle cells. 'Inflammation and Cardiovascular Disease' Summer School, Obergurgl, Austria, September 29 - October 2, 2011.
56. **Adriana Georgescu**, Miruna Nemezc, Nicoleta Alexandru, Aura Tudor, Daniel Cochior, Doina Popov. Dysfunction of Human Subcutaneous Fat Arterioles in Obesity Alone or Obesity Associated with

- Type 2 Diabetes, at '4th Annual Meeting of the Diabetes and Cardiovascular Disease EASD Study Group', October 27-29, 2011, Munich, Germany, Book of Abstracts, p.37.
57. N. Alexandru, D. Popov, E. Andrei, E. Dragan, **A. Georgescu**. The mechanisms of platelet activation in hypertension associated with hypercholesterolemia and the beneficial effects of irbesartan. at '4th Annual Meeting of the Diabetes and Cardiovascular Disease EASD Study Group', October 27-29, 2011, Munich, Germany, Book of Abstracts, p.31.
58. M. Nemezc, **A. Georgescu**, D. Popov, M. Simionescu. Influence of catalase and superoxide dismutase on human vascular smooth muscle cells grown in high glucose. at '4th Annual Meeting of the Diabetes and Cardiovascular Disease EASD Study Group', October 27-29, 2011, Munich, Germany, Book of Abstracts, p.33.
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Dr. Abilitat CSI Adriana Georgescu

