



Institute of Cellular Biology and Pathology 'Nicolae Simionescu'

CURRICULUM VITAE



Name, degree and current position: **Adriana Georgescu (49 years old)**, PhD. Habil, Principal Investigator Grade I, Biophysicist, Head of Department of Pathophysiology and Pharmacology, Institute of Cellular Biology and Pathology "Nicolae Simionescu" (ICBP-NS), Bucharest, Romania.

http://www.icbp.ro/40/3BT_ICBP_2019_dep_3%20_Patho_Pharma_p83_104.pdf

Born: January 22th 1971, Calinesti-Topoloveni, Arges, Romania

Married in Bucharest, Romania

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Education, degrees and diplomas

1989 – Baccalaureate – 'Ion Mihalache' High School, Topoloveni, Arges, Romania

1995 - Bachelor's Degree in Physics. Faculty of Physics, University of Bucharest, Romania

1996 - Master's Degree in Biophysics, Faculty of Physics, University of Bucharest, Romania

2005 – Doctoral Degree, Summa Cum Laude, Natural Sciences: Biology Domain, Institute of Cellular Biology and Pathology 'Nicolae Simionescu', Bucharest, Romania-PhD supervisor Acad. Maya Simionescu

2010 - 2013 - Postdoctoral Research Fellow, ICBP 'Nicolae Simionescu', Bucharest, Romania and 'Petru Poni' Institute of Macromolecular Chemistry, Iasi, Romania, Research Domain: Biomaterials; subdomain: Materials for tissue engineering and implantology- postdoc supervisor Acad. Maya Simionescu

2014 (since January) – Habilitation Degree, The title of habilitation thesis: Vascular endothelial dysfunction: cardiovascular risk factors, new biomarkers and therapies.

Professional experience, former employers

1996-1999 – *Research Assistant*, Institute of Cellular Biology and Pathology (ICBP) 'N. Simionescu',

1999 – 2002 - *Scientific Researcher*, ICBP 'N. Simionescu',

2002 - 2006 - *Principal Investigator III*, ICBP 'N. Simionescu', Department: Vascular Dysfunction in Diabetes

1997 - 2004 - *Ph.D. student*, ICBP 'N. Simionescu',

2006 - 2013 - *Principal Investigator II*, ICBP 'N. Simionescu', Department: Pathophysiology and Pharmacology

2007-2009 (1.02.2007-1.02.2009)- *Principal Investigator II*, University of Bucharest, Faculty of Biology: Department of Anatomy, Physiology and Biophysics

2012 (July)-2016 (May) - Group leader, ICBP 'N. Simionescu', Department of Pathophysiology and Pharmacology

2013 (since November)-present - *Principal Investigator I*, ICBP 'N. Simionescu', Department: Pathophysiology and Pharmacology

2014 (since January)-present - *PhD supervisor*, ICBP 'N. Simionescu'

2015 (27.01.2015-30.09.2015)- *Professor Dr.*, University of Bucharest, Faculty of Biology: Department of Anatomy, Physiology and Biophysics

2016 (May) -present–Head of Department of Pathophysiology and Pharmacology, ICBP 'N. Simionescu'

Training stages

●**2001 (1 month)** Frederic Alexander Universitat, Erlangen, Germany-*Detection of DNA-bound advanced Glycation End-products - High performance liquid chromatography (HPLC) technique-* **Dr. Monika Pischetsrieder**

●**2006 (1 month)** Cardiovascular Research Center, INSERM - UMR970, Paris, France - *Circulating Microparticle Isolation and Analysis - flow cytometry technique-* **Dr. Chantal M. Boulanger**

●**2007 (2 months)** 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 week)**– 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 weeks)**-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 month)** - 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 month)** -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 month)** - Center for Applied Medical Research (CIMA), 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**

Scientometric indicators for Adriana Georgescu: Hirsch index=22; Total number of citations =1190 (Google Scholar); RG Score=36.13 (Research Gate)

Adriana Georgescu, published until the present: ● 50 ISI articles (18 first/corresponding, 18 last/corresponding and 1 corresponding author); ●17 BDI articles (6 first/corresponding and 6 last/corresponding author); ●3 books (2 first/1 last author); ●5 book chapters (1 first/corresponding and 3 last/corresponding author); ●31 abstracts in ISI journals (11 first/10 last author); ●1 science newspaper articles as last corresponding author.

It should also be mentioned: ●4 oral presentations at prestige Universities (Institutes);●18 oral presentations at international conferences;●20 oral presentations at national conferences;●111 poster communications at international conferences and 18 at national conferences;● 27 national and 7 international awards;●8 international courses;● 1 patent. **Managerial competence:** Adriana Georgescu was Main Investigator (PI)/Project Leader for 15 national and 2 international academic grants. Also, she

was Mentor for 2 national academic grants and Project Collaborator at 22 national and 4 international academic grants.

Scientific assignments

●Scientific coordinator of Master and PhD thesis

●Reviewer at scientific international journals: *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*.

●Expert evaluator for national and international grants: National: ● Human Resources/projects: PD/TE/PTE (2011/2012/2019/2020); ● ‘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; International: ● 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 5th Call for Proposals for post-doctoral researchers of the EU-funded William Harvey International Translational Research Academy (WHRI-ACADEMY) London, United Kingdom (2016);

●Member in editorial board of international scientific journals: *World Journal of Diabetes*; *World Journal of Hematology*; *Journal of Cardiology and Therapy*; *Journal of Stem Cells Research, Reviews & Reports*; *International Journal of Hematology Research*; *Frontiers in Cardiovascular Medicine: Atherosclerosis and Vascular Medicine*; *Pharmacologia*; *Annals of Cardiovascular Diseases*; *JSM Atherosclerosis*; *SM Vascular Medicine*; *Journal of Stem Cell Therapy and Transplantation*, *The Open Pharmaceutical Science Journal* (*Current Clinical Pharmacology*); *3Biotech*.

Member in Scientific Societies: ● The Romanian Society for Cell Biology; ●Romanian Society for Developmental Biology; ●Romanian Society of Biochemistry; ●The Healthy Nutrition Foundation; ● The National Society for Regenerative Medicine and Surgery; ● Romanian Society of Hypertension; ● European Atherosclerosis Society; ●The Diabetes and Cardiovascular Disease EASD Study Group (D&CVD); ● European Vascular Biology Organisation (EVBO). ● European Society of Cardiology (ESC): Working Group on Atherosclerosis and Vascular Biology.

- **ORGANISATION OF SCIENTIFIC MEETINGS**

- Workshop of CDRTU “Combating Cardiovascular Disease and Diabetes”, April 27th-29th 2006, Bucharest, Romania
- Anniversary Symposium of ICBP “N. Simionescu” untitled “An incredible 40-year journey to understand cell’s secrets for the benefit of human health”, September 19th-20th, 2019, Bucharest, Romania.

- **INSTITUTIONAL RESPONSIBILITIES**

- **March 2011-September 2012 - Member of the Specialized Commission of Biology, Biochemistry and Pharmacy within CNATDCU** (Commission of National Council for the Certify of Titles, Diplomas and University Certifications) - Ministry of National Education and Scientific Research, Bucharest, Romania
- **2014 (since January) – present - PhD supervisor**, ICBP ‘NS’, Bucharest, Romania
- **2016 (since May) – present - Member of the Scientific Council** of ICBP ‘NS’, Bucharest, Romania
- **2020 (since July) – present - Member of the Ethics Commission** of ICBP ‘NS’, Bucharest, Romania
- **2020 - 2024 - Member of the Specialized Commission of Biology and Biochemistry within CNATDCU** (Commission of National Council for the Certify of Titles, Diplomas and University Certifications) - Ministry of National Education and Scientific Research, Bucharest, Romania

List of publications:

Articles published in ISI indexed journals with impact factor

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-hyperglycemia on the mesenteric resistance arteries, myocardium and kydney glomerili. *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 Ca²⁺ activated K⁺ 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. - *impac factor 2.74*
5. **A. Georgescu**, D. Popov, M. Capraru, M. Simionescu. 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_{2α}; 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_2 – 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. Boulanger. 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):173-84, 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, Doina 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, Doina 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.- *impact factor* 1.
25. I Titorencu, M. G. Albu, F. Anton, **A. Georgescu**, V. V. Jinga. Collagen – dexamethasone and collagen-D₃ scaffolds for bone tissue engineering. *Molecular Crystals and Liquid Crystals*, 555: 1-10, 2012. - *impact factor* 0.502
26. Nicoleta Alexandru, Doina 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, Doina 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, 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. - *impact factor* 4.092
29. **Adriana Georgescu**, Nicoleta Alexandru, Miruna Nemecz, 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. - *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. - *ISI*
32. Elisabeta Bădila, 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* 1.25
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 Țintea, 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 Bibiot, 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 Nemecz, 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*
- 42. Adriana Georgescu**. Understanding the functional role of microRNA-214-3p in atherosclerosis for the identification of novel targeted therapies to prevent or reverse endothelial cell dysfunction and stimulate autophagy. *Acta Physiologica*, e12997. Volume 222, Issue 3, 2018.- *impact factor 5.93*
- 43.** Ewa Ł. Stępień¹, Martyna Durak-Kozica, 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. Circulating ectosomes: Determination of angiogenic microRNAs in type 2 diabetes. *Theranostics*, 8(14): 3874-3890, 2018. – *impact factor 8.71*
- 44.** Miruna Nemecz, Alina Constantin, Madalina Dumitrescu, Nicoleta Alexandru, Alexandru Filippi, Gabriela Tanko, **Adriana Georgescu**. 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. -*impact factor 3.83*.
- 45.** Alina Constantin, Mădălina Dumitrescu, Miruna Nemecz, Ariana Picu, Bogdan Smeu, Cristian Guja, Nicoleta Alexandru, **Adriana Georgescu**, Gabriela Tanko. 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*, 29(5):1485-1497, 2019. – *impact factor 3.89*
- 46.** Nicoleta Alexandru, Florentina Safciuc, Alina Constantin, Miruna Nemecz, Gabriela Tanko, Alexandru Filippi, Emanuel Dragan, Elisabeta Bădilă, **Adriana Georgescu**. Platelets of healthy origins promote functional improvement of atherosclerotic endothelial progenitor cells. *Frontiers in Pharmacology/Inflammation Pharmacology*, 10 (article 424):1-14, 2019 – *impact factor 3.83*
- 47.** Monica Madalina Tucureanu, Alexandru Filippi, Nicoleta Alexandru, Cristina Ana Constantinescu, Letitia Ciortan¹, Razvan Macarie, Mihaela Vadana, Geanina Voicu, Sabina Frunza, Dan Nistor, Agneta Simionescu, Dan Teodor Simionescu, **Adriana Georgescu** (corresponding author)**, Ileana Manduteanu. Diabetes-induced early molecular and functional changes in aortic heart valves in a murine model of atherosclerosis, in *Diabetes & Vascular Disease Research*, 16(6):562-576, 2019 - *impact factor 3.34*
- 48.** Nicoleta Alexandru, Alina Constantin, Miruna Nemecz, Ioana K. Comarița, Alexandra Vîlcu, Anastasia Procopciuc, Gabriela Tanko, **Adriana Georgescu**. Hypertension associated with hyperlipidemia induced different microRNA expression profiles in plasma, platelets, and platelet-derived microvesicles; effects of endothelial progenitor cell therapy. *Frontiers in Medicine*, doi: 10.3389/fmed.2019.00280, Volume 6, Article 280, pages 1-10, 3 December 2019 - *impact factor 3.9*
- 49.** Nicoleta Alexandru[†], Eugen Andrei[†], Florentina Safciuc, Emanuel Dragan, Ana Maria Balahura, Elisabeta Badila, **Adriana Georgescu**. Intravenous administration of allogenic cell-derived microvesicles

of healthy origins defends against atherosclerotic cardiovascular disease development by a direct action on endothelial progenitor cells. *Cells*, 9(2):423(1-24), 2020. - impact factor 5.656

50. Alexandru Filippi, Alina Constantin, Nicoleta Alexandru, Geanina Voicu, Cristina Ana Constantinescu, Daniela Rebleanu, Madalina Fenyo, Dan Simionescu, Agneta Simionescu, Ileana Manduteanu, **Adriana Georgescu**. Integrins $\alpha 4\beta 1$ and $\alpha V\beta 3$ are reduced in endothelial progenitor cells from diabetic dyslipidemic mice and may represent new targets for therapy in aortic valve disease. *Cell Transplantation*, 9:1–8, 2020. - impact factor 3.341

Articles published in journals indexed for the international database

1. A. Georgescu, D. Popov, M. Hasu. Quantitative fluorimetric analysis of advanced glycosylation end products in mesenteric arteries and lens crystallin of hyperlipemic and simultaneously hyperlipemic and hyperglycemic hamsters. *Current Problems and Techniques in Cellular and Molecular Biology* edited by A. Ardelean et. Al., vol. 2, 65-68, 1997.

2. G. Costache, M. Hasu, D. Popov, **A. Georgescu**. The use of the myograph technique for the investigation of the vascular reactivity: A review. *Current Problems and Techniques in Cellular and Molecular Biology* edited by A. Ardelean et. Al., vol. 2, 38-43, 1997,

3. A. Georgescu, D. Popov, G. Costache. Vascular reactivity of resistance arteries of hyperlipemic-hyperglycemic hamsters in the presence of vasoconstrictor agents. *Current Problems and Techniques in Cellular and Molecular Biology* edited by A. Ardelean et. al., vol. 3, 124-129, 1998.

4. A. Georgescu, D. Popov. Influence of experimental diabetes on the cells of vascular wall. *Studii si Cercetari de Biochimie*, vol. 41, 107-117, 1998.

5. G. Costache, D. Popov, **A. Georgescu**, M. Simionescu. Functional-structural alterations of the resistance arteries in experimental hyperlipemia or hyperglycemia. Proceedings of the Romanian Academy. Series.B. vol.1, 33-37, 1999

6. A. Georgescu, D. Popov. Vascular reactivity of the resistance arteries to potassium in combined hyperlipemia-hyperglycemia. *Proceedings of the Romanian Academy nr.3*, 111-117, 2001.

7. A. Georgescu, D. Popov, L. Vladimirescu. Effect of blocking the intercellular communication junctions on the contractile response of the resistance arteries. *Current Problems in Cellular and Molecular Biology* edited by A. Ardelean et. al., vol VI, 85-90, 2001.

8. L. Radu, C. Stavaru, **A. Georgescu**, D. Popov, C. Coman. Transgenic mouse model of type 1 Diabetes. *Proceedings of the Japanese Society for Immunology*, 32, 11, 2002.

9. D. Popov, **A. Georgescu**, G. Costache. Perturbarea reactivitatii arterelor de rezistenta, manifestare a disfunctiei vasculare in diabet. *Romanian Heart Journal*, 20 (3), 216-223, 2005.

10. Adriana Georgescu, Florentina Safciuc, Elena Constantinescu. The effect of aging on the vasomotor function of rat basilar artery. *Proc. Rom. Acad.*, Series B, 1, 13-17, 2006.

11. Miruna Nemecz, Doina Popov, **Adriana Georgescu**. Phosphorylation/dephosphorylation signaling events in the aorta of streptozotocin-injected Golden Syrian Hamsters. *Annals of RSCB*, vol XV, issue 1, 28-34, 2010.

12. C.S. Stancu, **A. Georgescu**, L. Toma, G.M. Sanda, A.V. Sima. Glycated low density lipoproteins alter vascular reactivity in hyperlipidemic hyperglycemic hamsters; *Annals of RSCB*. **17(1)**, 9-15, 2012.

13. Nicoleta Alexandru, Elisabeta Badila, **Adriana Georgescu**. The role of endothelial progenitor cells in the cardiovascular disease pathogenesis. *J Stem Cells Res, Rev & Rep*.1(2): 1-2, 2014.

14. Nicoleta Alexandru, **Adriana Georgescu**. Microparticles as players in the pathogenesis of cardiovascular disease. *Fisiologia*, ISSN:1889-397X, vol. 18(1),9-14, 2015.

15. Eugen Andrei, Nicoleta Alexandru, **Adriana Georgescu**. Circulating microparticles: major mediators of the pathogenesis of cardiovascular complications in diabetes. *Annals of the Romanian Society for Cell Biology*, Volume XIX, Issue 3, pp. 55-63, 2015.

16. Aleksandra Tokarz, Iwona Szuścik, Beata Kuśnierz-Cabala, Maria Kapusta, Magdalena Konkolewska, Aleksander Żurkowski, **Adriana Georgescu**, Ewa Stępień. Extracellular vesicles participate in the transport of cytokines and angiogenic factors in diabetic patients with ocular complications. *FOLIA MEDICA CRACOVIENSIA*, PL ISSN 0015-5616, Vol LV, 4, 35–48, 2015.

17. Ana Costa, Nicoleta Alexandru, Fernanda Silva, Ana Magalhães, Sérgio Dias, **Adriana Georgescu**. Detection of miRNAs in Extracellular Vesicles by In Situ Hybridization Using Formalin-Frozen Paraffin Embedded Sections. *Annals of R.S.C.B.*, Vol. XXI, Issue 3, 2017, pp. 29 - 35 doi: 10.ANN/RSCB-2017-0019: RSCB Received 13 December 2017; accepted 30 May 2018.

Books

1. **Adriana Georgescu**, Felicia Antohe. Editor of the international monograph 'From Vascular Cell Biology to Cardiovascular Medicine' published by *RESEARCH SIGNPOST TRANSWORLD RESEARCH NETWORK*, Trivandrum - 695023, Kerala, India, ISBN - 978-81-7895-503-2, pp. 1-334, 2011.

2. **Adriana Georgescu**. Cardiovascular Dysfunction: New Biomarkers and Therapies. Published by Scholars' Press, OmniScriptum GmbH & Co. KG, Saarbrücken, Germany, ISBN -978-3-639-71643-6, pp. 1-170, 2014.

3. Maya Simionescu, Manuela Calin, **Adriana Georgescu**. An incredible 40-year journey to understand cell's secrets for the benefit of human health. National Foundation for Science and Art 978-606-555-270-8, pp. 1-223, 2019.

Chapters in books

1. Doina Popov, Gabriela Costache, **Adriana Georgescu**. Altered vascular reactivity of the resistance arteries: lessons from the hyperlipemic-hyperglycemic hamster model, '*New insights into experimental diabetes*', Ed: D.M.Cheta, The Publishing House of The Romanian Academy, ISBN: 973-27-0871-9, 211-222, 2001.

2. **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov. Ongoing data on vascular endothelial cell dysfunction: an update. '*From Vascular Cell Biology to Cardiovascular Medicine*', Ed: **Adriana Georgescu**, Felicia Antohe, published by *RESEARCH SIGNPOST TRANSWORLD RESEARCH NETWORK*, ISBN - 978-81-7895-503-2, 125 – 141. 2011.

3. Nicoleta Alexandru, Irina Titorencu, Elisabeta Bădilă, Sabina Frunză, **Adriana Georgescu**. *Chapter's Title*: Endothelial progenitor cell dysfunction in the pathogenesis of vascular complications of diabetes. *Book's Title*: Mechanisms of Vascular Defects in Diabetes Mellitus, *Editors*: Chandrasekharan Kartha, Surya Ramachandran, M. Radhakrishna Pillai, *in Series Title*: Advances in Biochemistry in Health and Disease, *Springer UK*, ISBN 978-3-319-60324-7, vol. 17, pp.159-208, 2017.

4. Mihaela Gherghiceanu, Nicoleta Alexandru, Stefania Lucia Magda, Alina Constantin, Miruna Nemecz, Alexandru Filippi, Octavian Costin Ioghen, Laura Cristina Ceafalan, Florina Bojin, Gabriela Tanko, Virgil Paunescu, Dragos Vinereanu, Ewa Stepień, **Adriana Georgescu**. *Chapter's Title*: Extracellular Vesicles As Valuable Players In Diabetic Cardiovascular Diseases. *Book's Title*: Extracellular Vesicles, Book edited by: Dr. Ana Gil De Bona, *IntechOpen*, ISBN 978-1-78923-944-7, pp. 1-25, 2019.

5. Laura Cristina Ceafalan, Octavian Costin Ioghen, Daciana Silvia Marta, Alina Constantin, Nicoleta Alexandru, Miruna Nemecz, Gabriela Tanko, Alexandru Filippi, Stefania Lucia Magda, Florina Bojin, Virgil Paunescu, Dragos Vinereanu, **Adriana Georgescu**, Mihaela Gherghiceanu. *Chapter's Title*: Extracellular Vesicles as Risk Factor in Neurodegenerative Diseases. *Book's Title*: Extracellular Vesicles, Book edited by:

Dr. Ana Gil De Bona, *IntechOpen*, ISBN 978-1-78923-944-7, pp. 1-21, 2019.

Science newspaper articles

1. Nicoleta Alexandru, **Adriana Georgescu**. Active role of cell-derived microparticles in diabetes associated cardiovascular complications. *Atlas of Science (website: www.atlasofscience.org)*, August 12, 2016.

Invited talks at prestigious Universities (Institutes)

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; irbesartan 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 irbesartan.* Queen's University Belfast, Centre for Vision & Vascular Science Belfast (Northern Ireland, UK), June 14, 2012.
4. **Adriana Georgescu.** *Irbesartan increases the mobilization of endothelial progenitor cells in atherosclerosis by an inhibitor effect on circulating microparticles and VEGF/SDF-1 α .* Center for Applied Medical Research (CIMA), University of Navarra, Division of Cardiovascular Sciences, Pamplona, Spain, October 19, 2012.

Invited talks at prestigious international conferences

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 2nd-5th 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 10th-13th 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 8th-12th, 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 14th-16th, 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 4th 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 13th-20th 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 11th-14th 2006.
8. Microparticles as potential markers in venous insufficiency. **Adriana Georgescu,** Nicoleta Alexandru, Horia Maniu, Miruna Nemecz, Doina Popov. *Romanian Society for Cell Biology at 25 years Anniversary; Anniversary workshop 'From Basic Science to Therapeutic Applications'*, Bucharest, Romania, June 6th-10th 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 15th-22th 2007.

10. Chronic venous insufficiency is associated with elevated level of circulating microparticles. **Adriana Georgescu**, Nicoleta Alexandru, Doina Popov, Manuela Amuzescu, Miruna Nemecz, 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 26th-29th 2008.
11. Ratio of microparticles to endothelial progenitor cells, a marker of vascular dysfunction induced by combined hypertension and hypercholesterolemia; irbersartan 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 20th – 23th 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 6th-13th 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. Nemecz, C. Tarziu, S. Ghiorghe, D. Bartos, E. Badila. Presentation at ,the 17th Joint Meeting Signal Transduction – Receptors, Mediators and Genes (STS)', Weimar, 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. *23rd 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 12th Central and Eastern European Proteomic Conference' jointly with 'The 39th 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.
19. Alexandru Fillipi, **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 Nemecz, **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 - 6th International Conference on Interdisciplinary**

Management of Diabetes Mellitus and its Complications. Diabetes Mellitus in Internal Medicine. March 5th-7th, 2020, Bucharest, Romania.

Invited talks at prestigious national conferences

1. Glication of DNA genomic. Experimental proves and effects on the cellular process. **Adriana Georgescu**, *XXII Yearly Scientific Session of Institute of Cellular Biology and Pathology Nicolae Simionescu*, Bucharest, Romania, September 14th 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 20th-Century Medicine*, Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, May 28th -June 5th 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 20th-Century Medicine*, Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, October 10th-17th 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 Foundation*, 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 20th-Century Medicine*, Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, June 20th-27th 2003.
6. The effect of enoxaparin sodium on the vascular reactivity of the resistance arteries. **A. Georgescu**, D. Popov, M. Capraru, L Vladimirescu, M. Simionescu, *Anniversary Session - Diabates Hospital*, October 2003.
7. Signaling pathways involved in the vasodilator effect of nebivolol 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 10th-13th 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 at 25 years Anniversary Workshop "Cell and Molecular Biology a Key to Defeat Global Risk Diseases: Atherosclerosis, Diabetes and Immune Disorders, Bucharest-Romania, September 8th-12th, 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 5th 2004.
11. Enoxaparin establish the endothelial dysfunction in aging and experimental diabetes. Adriana Georgescu, Doina Popov, Maya Simionescu, *Comemorative Simposium Acad. Nicolae Cajal* , Bucharest, Romania, March 30th-31th, 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 9th-12th 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 20th-*

Century Medicine, Institute of Cellular Biology and Pathology Nicolae Simionescu, Bucharest, Romania, October 14th - 21th 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 30th - September 2nd, 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 16th 2007.

16. The myograph, a researcher system for in vitro monitorizing of the function of the small blood vessels; the principles, experimental results and practical demonstration. **Adriana Georgescu**, at *International Symposium 'Advanced Study School, 8th edition, 'From Cellular and Molecular Biology to the XXIst Century Medicine'*, in Institute of Cellular Biology and Pathology 'Nicolae Simionescu', Bucharest, Romania, October 20th-29th 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 9th-12th 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, Doina Popov, Eugen Andrei, Emanuel Dragan, Irina Titorencu, Maya Simionescu. *Yearly Scientific Session. Workshop: Cellular and molecular biology for the human health*. Bucharest, Romania, September 8th, 2010.

19. Pathophysiological and therapeutic implications of circulating platelet microparticles and endothelial progenitor cells in atherosclerosis. **Adriana Georgescu**. *Anniversary Symposium, ICBP 'Nicolae Simionescu', 35 years old: From Basic Research and Preclinical to Personalized Medicine*. 10 to 11 December 2014.

20. New approaches to investigating and treating atherosclerosis and type 2 diabetes associated with obesity. **Adriana Georgescu**. *Anniversary Symposium, ICBP 'Nicolae Simionescu', 37 years old: Cellular and Molecular Biology in Dialogue with Precision Medicine*, 8 December 2016, Bucharest, Romania.

Patents:

1. Process for obtaining genetically modified endothelial progenitor cells. Patent Application, OSIM No. A/00284 of 25.05.2020. Authors: Alexandru Filippi, Loredana Antonescu, Alina Constantin, Cristina Constantinescu, Nicoleta Alexandru, **Adriana Georgescu**

Project manager for international projects

1. 2001-2002 - Grant from the Deutsche Forschungsgemeinschaft (DFG). Grant in collaboration with Institute of Pharmacy and Food Chemistry, Friedrich-Alexander-University Erlangen-Nuremberg, Erlangen, Germany.

Project: Detection of non-enzymatic glycation products of cellular ADN using experimental models of diabetic animals

2. 2012-2014 – Capacity project: ERC-like – type 'Grant Support' - project ID PNII-CT-ERC-2012 - 1" - grant of the Romanian National Authority for Scientific Research, CNCS – UEFISCDI (Grant no.6/18.07.2012)

Project: Circulating platelet microparticles and endothelial progenitor cells in vascular atherosclerosis: new pathophysiological and therapeutic implications– *project was funded with 1 500 000 RON*

Project manager of following national projects

1. 1999- 2000 - Grant from Romanian Academy, – Grant no. 31/ 1999

Project: The role of aging and of association for a long time of the hyperglycemia-hyperlipemia in the formation of the glycated irreversible proteins. The effect of the in vivo administration by L-arginine – **Project manager** - *the project was funded with 40.000.000 ROL*

2. 1999- Grant Awarded By Romanian Research and Technology Ministry, – Grant no. 881/ 10.09.1999

Project: The effect of the simultaneously hyperglycemia –hyperlipemia on the vascular reactivity of the resistance arteries in the presence of PGF2alpha vasoconstrictor. The involved cellular mechanism - **Project manager** - *the project was funded with 100.000.000 ROL*

3. 2000- Grant from Romanian Academy, – Grant no. 138/ 1.10.2000

Project: The study of the mechanisms involved in the vascular response of the resistance arteries in the presence of bradykinine. The effect of hyperglycemia-hyperlipemia on the endothelium dependent relaxation. - **Project manager** - *the project was funded with 100.000.000 ROL*.

4. 2000-Grant Awarded By Romanian Research and Technology Ministry, – Grant no. 55/ 1.12.2000

Project: The effect of the combined hyperglycemia –hyperlipemia on the vascular reactivity of the resistance arteries in the presence of potassium vasoconstrictor. The involved cellular mechanism - **Project manager** - *the project was funded with 100.000.000 ROL*

5. 2001 – 2002 - Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN, – Grant no. 110/ 29.10.2001

Project: The effect of of enoxaparin sodium on the vascular reactivity of the resistance arteries in aging and in diabetes; the role of nitric oxide - **Project manager** - *the project was funded with 700.000.000 ROL*.

6. 2001 – 2002 - Grant Awarded By Romanian Research and Technology Ministry, – Grant no. 7051/2001

Project: The gap junctions and the vascular reactivity of the mesenteric resistance arteries; the effect of the heptanol - **Project manager** - *the project was funded with 200.000.000 ROL*

7. 2002 – 2005 - Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN, – Grant no. 171/ 7.10.2002

The pharmacological properties and the cellular mechanisms involved in the effect of nebivolol in the renal artery in diabet; the experimental data - **Project manager** - *the project was funded with 500.000.000 ROL*.

8. 2004 – 2006 - Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN, – Grant no. 347/ 1.10.2004

Project: The effect of the enoxaparin (a low molecular weight heparin) in the reestablishment of the endothelial vascular dysfunctions in aging and in diabetes; the involvement of the mitogen-activated protein kinase evidenced by changes in the expression of c-fos gene and transcription factor AP-1 - **Project manager** - *the project was funded with 800.000.000 ROL*.

9. 2006-2008 - Excellence Research Projects for young researchers (CEEX) from the Romanian Ministry of Education and Research, - Grant no. 15121/2006

Project: THE EFFECT OF ELEVATED LEVELS OF SHED MEMBRANE MICROPARTICLES ON THE FUNCTION OF THE PHERIPHERAL VEINS AT PATIENTS WITH CHRONIC VENOUS INSUFFICIENCY - *the project was funded with 40.000 euro*

10. 2008-2011- National Program for Research-Development and Innovation 2 (PNCDI-2), National Centre for Programs' Management (CNMP), Partnerships Program 4, Direction 4 – Health – Grant no. 42138/ 1.10.2008

Project: Ratio of circulating microparticles to endothelial progenitor cells, a new cellular marker of endothelial dysfunction induced by combined hypertension and hypercholesterolemia; anti-atherosclerotic effect of irbersartan – *project was funded with 2 000 000 RON*

11. 2008-2011- National Program for Research-Development and Innovation 2 (PNCDI-2), Ministry of Education, Research and Youth, The National Authority for Scientific Research, Idei Program 1 – Funding Application for Exploratory Research Projects – Grant no. 1159/19.01.2009

Project: Vascular complications of small arteries in patients with obesity associated or not with type 2 diabetes; the endothelial dysfunction and insulin resistance – *project was funded with 1 000 000 RON.*

12. 2015-2017- Grant of the Romanian National Authority for Scientific Research and Innovation, CNCS –UEFISCDI, Program Human Resources/Project number PN-II-RU-TE-2014-4-0525: Grant no 79/01.10.2015

Project: Microparticles as intracellular delivery strategies for microRNAs and potential therapies for atherosclerotic vascular disease - *the project was funded with 550 000 RON.*

13. 2016-2020 - Grant of the Ministry of National Education and Scientific Research, Romania, MNE – NASRI (INTERMEDIATE BODY FOR RESEARCH): Competitiveness Operational Programme 2014-2020 Priority Axis 1 – Research, Technological Development And Innovation (Rd&I) To Support Economic Competitiveness And Business Development. Action 1.1.4 Attracting high-level personnel from abroad in order to enhance the RD capacity.

Project Title: Targeted therapies for diabetes - related aortic valve disease. **Grant no.** 115/13.09.2016/
Project Code: 104362. **Specialist in Implementation Project Team:** and **Mandated as Project Manager with the right signature.** Dr. Adriana Georgescu; **Executive Manager:** Dr. Ileana Manduteanu; **Project Manager:** Dr. Agneta Simionescu, - *the project was funded with 8 657 500 RON.*

14. 2018-2021 - Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Complex Projects Completed in Consortia CDI (PCCDI), under Program 1. Developing national CD, Subprogram 1.2. Institutional performance - "Institutional Development Project"

Project no. PN-III-P1-1.2-PCCDI-2017-0527/**Contract no.** 83 PCCDI/2018 - **Project title:** Development of BIONanotechnologies based on extracellular Vesicles for early diagnosis, prognosis and therapy of Atherosclerotic disease; - **Project acronym:** BIOVEA - *the project was funded with 1125000 Euro*

Mentor for the projects

1. 2018-2020 - Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Postdoctoral research projects (PD), under Program 1. Developing national CD, Subprogram 1.1. Human Resources

Project no. PN-III P1-1.1-PD-2016-1660 - **Project title:** Tissue engineering of blood vessels using three-dimensional bioprinting of endothelial and smooth muscle progenitor cells; - **Project acronym:** BIOPRINT - *the project was funded with 53192 Euro*

2. 2020-2022 - Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Postdoctoral research projects (PD), under Program 1. Developing national CD, Subprogram 1.1. Human Resources

Project no. PN-III-P1-1.1-PD-2019-0283 - **Project title:** Microvesicle - associated microRNAs as new potential biomarkers for risk prediction and early diagnosis of glioblastoma recurrence; - **Project acronym:** MICROGLIO - *the project was funded with 53192 Euro*

Collaborator of following national projects

1. 1997- 1998 - Grant Awarded By Romanian Research and Technology Ministry

The influence of hyperlycemia and hyperlipemia induced in the experimental conditions on the vascular reactivity and the structure of the resistance vessels

2. 1998-1999 - Grant Awarded By Romanian Research and Technology Ministry

The detection of the irreversible glycation of the proteins and the interaction with the endothelium in the experimental diabetes induced for o long time. The effect of the diabetes induced experimental on the structure of the endothelium and of smooth muscle cells in veins and in arteries.

3. 1998 - Grant from Romanian Academy

The effect of induced simultaneously hyperglycemia- hyperlipemia on the reactivity of the resistance arteries.

4. 1999- Grant Awarded By Romanian Research and Technology Ministry

The effect of simultaneously hyperglycemia-hyperlipemia on the morphological and functional changes of the organs affected in hypertension

5. 2001-2003- Grant Awarded By: Romanian Ministry of Research- National Research Program For Fundamental Research VIASAN

The cardiovascular changes associated with type 1 diabetes at transgenic mouse model

6. 2001-2003 - Grant Awarded By: Romanian Ministry of Research- National Research Program For Fundamental Research VIASAN

The use of the drugs as target towards the vascular endothelium using liposomes; a strategy for the therapy of the cardiovascular diseases

7. 2003-2004 - Grant from Romanian Academy

Superoxide dismutase entrapped–liposomes restore the impaired endothelium-dependent relaxation of resistance arteries in experimental diabetes

8. 2003 - 2005 - Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN

The modulation mechanisms of the ionic channels activated by tisuular acidose in the peripheral nervous fibers and blood vessels

9. 2003 – 2005 - Grant Awarded By: Romanian Ministry Of Research - National Research Program For Fundamental Research CERES

The studies on the cerebral vasculature in aging

10. 2004 – 2006 - Grant Awarded By: Romanian Ministry Of Research- National Research Program For Fundamental Research VIASAN

Adiponectin – the mediator in the intercellular signaling activated by insulin; the clinical involvements in the obesity associated with type 2 diabetes

11. 2005 – 2007 - Grant Awarded By: Romanian Ministry of Research - National Research Program for Fundamental Research “Excellence Research Project”

The alteration of the cellular and molecular mechanisms and of gene expression in the cardiovascular disease and diabetes/ obesity, the major alteration of the metabolic syndrome – the fundamental and clinical researches

12. 2005 – 2007 - Grant Awarded By: Romanian Ministry of Research - National Research Program for Fundamental Research “Excellence Research Project”

The therapy with the stem cells for the vascular regeneration and construction

13. 2006-2008. Excellence Research Projects for young researchers

Project: Signaling pathways involved in Fractalkine expression induced by hyperglycemia as targets for developing new therapeutic approach of cardiovascular pathologies associated with diabetes

14. 2006-2008. Excellence Research Projects for Postdoc No. 1530, 205066 RON

Project: The study of the molecular mechanisms of the diabetic neuropathy on neuronal cultures from spinal ganglions in diabetic conditions

15. 2007-2010 - National Program for Research-Development and Innovation 2 (PNCDI-2), National Centre for Programs’ Management (CNMP), Partnerships Program 4, Direction 4 - Health

Project: Bank of stem cells cryo-preserved for research and autologus transplant

16. 2008-2011- National Program for Research-Development and Innovation 2 (PNCDI-2), Ministry of Education, Research and Youth, The National Authority for Scientific Research, Idei Program 1 – Funding Application for Exploratory Research Projects

Project Title: The study of the molecular mechanisms through hyperlipideemia and hyperglycemia induce the alteration of the vascular reactivity.

17. 2014-2017 - Grant of the Romanian National Authority for Scientific Research and Innovation, CNCS–UEFISCDI, Program PNII-Partnerships in Priority Areas/Project no. PN-II-PT-PCCA-2013-4-0816 - Project title: Rational design and synthesis of smart bioactive scaffolds for personalized treatment of acute and chronic cutaneous wounds (ZETTAskin)

18. 2015-2017 - Grant of the Romanian National Authority for Scientific Research and Innovation, CNCS –UEFISCDI, Program Human Resources/Project number PN-II-RU-TE-2014-4-0523: Grant no 80/01.10.2015

Project: New insights in platelet-endothelial progenitor cell interplay in atherosclerotic disease - *the project was funded with 550 000 lei RON*

19. Grant of the Romanian National Authority for Scientific Research and Innovation, CNCS–UEFISCDI, Program PNII-Partnerships in Priority Areas/Project no. PN-II-PT-PCCA-2013-4-2267: Grant no. 271/2014

Project Title: Obtaining biodegradable implants of magnesium composites, usable in ankle and foot surgery.

20. 2018-2020 - Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Complex Projects Completed in Consortia CDI (PCCDI), under Program 1. Developing national CD, Subprogram 1.2. Institutional performance - "Institutional Development Project"

Project no. PN-III-P1-1.2-PCCDI-2017-0749 - Project title: Bioactive nanostructures for innovative therapeutic strategies.

21. 2018-2020 – Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Complex Projects Completed in Consortia CDI (PCCDI), under Program 1. Developing national CD, Subprogram 1.2. Institutional performance - "Institutional Development Project"

Project no. PN-III-P1-1.2-PCCDI-2017-0797/ Contract no.66PCCDI/2018

Project Title: Pathogenic mechanisms and personalized treatment in pancreatic cancer using multi-omic technologies. **Project acronym:** PANCNGS - *the project was funded with 1125000 Euro.*

22. 2020-2022- Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI - Program Human Resources/Project number PN-III-P1-1.1-TE-2019-0811

Project title: Immune modulation of T-cells by platelets and platelet-derived microvesicles in experimental induced atherosclerosis; the role of microRNA-142-3p- the project; **Project acronym:** IMPLEXIA – *the project was funded with 431 900 lei RON*

Collaborator in following international Grants

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

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, EU COST Action BM 0602: 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.

4. 2010- 2012. European Social Fund – „Cristofor I. Simionescu” Postdoctoral Fellowship Programme (ID POSDRU/89/1.5/S/55216), Sectoral Operational Programme Human Resources Development 2007 – 2013.- Collaborator in the project

- The research field, Biomaterials, **title project:** The identification of new biomarkers of the endothelial dysfunction; the strategies for restoring of the vascular wall function.

Awards

International Prizes

1. Award (Travel grant) offered for presentation: The abnormal responses to $\text{PGF}_{2\alpha}$ 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- Netherlands, October 16-18, 1998*.
2. Award (Travel grant) offered for presentation: 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. The second prize with the paper: The effect of Enoxaparin on the vascular reactivity of the resistance arteries; Role of endothelial nitric oxide. A. Georgescu, D. Popov, M. Capraru*, at *The European Life Scientist Organisation (ELSO), Nice- France, June 29 –July 3, 2002*.
4. Travel Grant Winner and Diploma with paper untitled “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”, offered at *4th European Meeting on Vascular Biology and Medicine, Bristol-UK, September 17-20, 2007*.
5. Award offered by the Award Committee for the ISTH 2009 Developing World Scientist Grants for presentation: Elevation of endothelial and platelet microparticles in patients with chronic venous insufficiency. A. Georgescu, N. Alexandru, D. Popov, M. Amuzescu, E. Andrei, M. Nemecz, C. Zamfir, A. Badila, M. Simionescu, at *XXII Congress of International Society on Thrombosis and Haemostasis, Boston – USA, July 11-16, 2009*.
6. The first prize offered Romania with presentation: Circulating endothelial progenitor cells, microparticles and atherosclerosis at *3rd International Congress of the Romanian Society for Cell Biology’, Szeged, Hungary, June 8-12, 2011*.
7. The prize for poster presentation to ‘*22nd World Congress of International Federation for the Surgery of Obesity and Metabolic Disorders*’, 29 August - 2 September, 2017, London, UK, with the paper: Endoplasmic reticulum stress markers and autophagy in human β -cells exposed to sera from obese type 2 diabetic patients. (Constantin A, Dumitrescu M, Nemecz M, Alexandru N, Georgescu A, Guja C, Smeu B, Tanko G, Maya Simionescu).

National Prizes

1. The first prize offered by “Healthy Nutrition Foundation” with the paper: 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. The Diploma offered by Romanian Academy, Institute of Cellular Biology and Pathology ‘Nicolae Simionescu’, Bucharest, for successful scientific activities 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 2007.
4. Award offered by Education and Research Ministry for published article 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, in *European Journal of Pharmacology*, 570, 149-158, 2007.

5. Award offered by Education and Research Ministry for published article in 2008:

Nebivolol induces the hyperpolarizing effect on smooth muscle cells in the mouse renal artery by activation of the β_2 – adrenoceptor, A. Georgescu, F. Pluteanu, M-L. Flonta, E. Badila, M. Dorobantu, D. Popov, in *Pharmacology*, 81:110-117, 2008.

6. The Diploma offered by Romanian Academy, Institute of Cellular Biology and Pathology “Nicolae Simionescu”, Bucharest, to Adriana Georgescu for successful scientific activities and published papers 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, March 2008.

7. Award offered by Education and Research Ministry for published article 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. in *Journal of Thrombosis and Haemostasis*, 7 (9): 1566-1575, 2009.

8. Award “Constantin Velican” for remarkable contributions in the field of the molecular and cellular pathology of the cardiovascular diseases, offered at XXVIII Annual Congress of Romanian Society of Cellular Biology , Constanta, Romania, June 9- 12, 2010.

9. Award offered by Education and Research Ministry for published article 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. in *Diabetes*, 59, 694-701, 2010.

10. Award ‘*Nicolae Simionescu*’ offered by Romanian Academy for the original papers in the area: The alteration of vascular reactivity in diabetes and its improvement using some specific drugs, December 2010.

11. Award offered by Education and Research Ministry (UEFISCDI) for published article in 2011: Adriana Georgescu, Doina Popov, Anamaria Constantin, Miruna Nemecz, 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. Award offered by Education and Research Ministry (UEFISCDI) for published article 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. Award offered by Education and Research Ministry (UEFISCDI) for published article 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. Award offered by Education and Research Ministry (UEFISCDI) for published article 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. Award offered by Education and Research Ministry (UEFISCDI) for published article in 2012: Adriana Georgescu, Nicoleta Alexandru, Eugen Andrei, Irina Titorencu, Emanuel Dragan, Cristina Tarziu, 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. Award offered by Education and Research Ministry (UEFISCDI) for published article 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. Award offered by Education and Research Ministry (UEFISCDI) for published article in 2013: **Adriana Georgescu**, Nicoleta Alexandru, Miruna Nemecz, 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. Award offered by Education and Research Ministry (UEFISCDI) for habilitation thesis with title: Vascular endothelial dysfunction: cardiovascular risk factors, new biomarkers and therapies - Adriana Georgescu, December 2014.

19. Award offered by Ministry of Education and Scientific Research – November 2015 for the paper '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, and **Adriana Georgescu**).

20. Award offered by Ministry of Education and Scientific Research – November 2015 for the paper '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 Maria Daraban, Emma Țintea, Daniela Bartoș, Nicoleta Alexandru, **Adriana Georgescu**).

21. Award offered by Ministry of Education and Scientific Research – November 2016 for the paper '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. 'Scientific Achievements – Original Article' Award offered by Ministry for Education and Research – October 2017 for the paper 'Role of microRNA in endothelial dysfunction and hypertension' in *Current Hypertension Reports*, 18(12):87, 2016. (M. Nemecz*, N. Alexandru*, G. Tanko, **A. Georgescu**).

23. 'Scientific Achievements – Original Article' Award offered by Ministry for Education and Research – June 2018 for the paper '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. 'Scientific Achievements – Original Article' Award offered by Ministry for Education and Research – December 2018 for the paper 'Circulating ectosomes: Determination of angiogenic microRNAs in type 2 diabetes' in *Theranostics*, 8(14): 3874-3890, 2018. (Ewa Ł. Stępień¹, Martyna Durak-Kozica, Agnieszka Kamińska, Marta Targosz-Korecka, Marcin Libera, Grzegorz Tylko, Agnieszka Opalińska, Maria Kapusta, Bogdan Solnica, **Adriana Georgescu**, Marina C. Costa, Agnieszka Czyżewska-Buczyńska, Wojciech Witkiewicz, Maciej T. Małecki¹, Francisco J. Enguita).

25. 'Scientific Achievements – Original Article' Award offered by Ministry for Education and Research – October 2019 for the paper: 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 Nemecz, Alina Constantin, Madalina Dumitrescu, Nicoleta Alexandru, Alexandru Filippi, Gabriela Tanko, **Adriana Georgescu**).

26. 'Scientific Achievements – Original Article' Award offered by Ministry for Education and Research – October 2019 for the paper: 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 Nemecz, Ariana Picu, Bogdan Smeu, Cristian Guja, Nicoleta Alexandru, **Adriana Georgescu**, Gabriela Tanko)

27. 'Scientific Achievements – Original Article' Award offered by Ministry for Education and Research – October 2019 for the paper: : 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 Nemecz, Gabriela Tanko, Alexandru Filippi, Emanuel Dragan, Elisabeta Bădilă, **Adriana Georgescu**)

