

PERSONAL INFORMATION

Adrian Sturza



“Victor Babes” University of Medicine and Pharmacy - Pathophysiology Department,
14 Tudor Vladimirescu Str., 1st floor, 300173, Timisoara (Romania)

✉ sturza.adrian@umft.ro , adisturza@yahoo.com

WORK EXPERIENCE

Period	2016 → <i>present</i>	2014 → 2016	2013 → 2014
Position	Associate Professor	Lecturer	Assistant Professor
Institution	Pathophysiology Department “Victor Babes” University of Medicine and Pharmacy, Timisoara (Romania)	Pathophysiology Department “Victor Babes” University of Medicine and Pharmacy, Timisoara (Romania)	Pathophysiology Department “Victor Babes” University of Medicine and Pharmacy, Timisoara (Romania)

Period	2016 → <i>present</i>	2011 → 2016	2010
Position	MD, Consultant in Diabetes, nutrition and metabolic disorders	MD, Diabetes, nutrition and metabolic disorders (residency)	MD, Laboratory medicine (residency)
Institution	Center of Diabetes, Nutrition and Disorders of Metabolism, Timișoara County Hospital, Romania	Clinic of Diabetes, Nutrition and Disorders of Metabolism, Timisoara County Hospital, Romania	Timișoara County Hospital, Romania

EDUCATION

Period	2013-2015	2009 → 2013	2003 → 2009
Position / Qualification awarded	Post-Doc Fellowships and Teaching Training Program	PhD student / PhD in Medicine with <i>Summa cum laudae</i> distinction	Medical student / Medical Doctor (MD)
Institution	<p>2015: Teaching Training Program (West University – Timisoara)</p> <p>2014-2015: POSDRU/159/1.5/S/136893, Pathophysiology “Victor Babes” University of Medicine and Pharmacy, Timisoara (Romania)</p> <p>2013: “Bursa Paulescu” fellowship, Romanian Society of Diabetes, nutrition and metabolic disorders</p>	<p>Department of Pathophysiology “Victor Babes” University of Medicine and Pharmacy, Timisoara (Romania) and Institute for Cardiovascular Physiology, Goethe University, Frankfurt am Main (Germany) (co-tutorship)</p> <p>POSDRU Fellowship /88/1.5/S/ 63117, 2011-2012</p>	<p>“Victor Babes” University of Medicine and Pharmacy, Timisoara (Romania)</p> <p>Student inter-university exchanges:</p> <p>1. IFMSA Exchange – Split, Croatia, 4-25 August 2008, Clinical Center Firule-Krizine– Dept. of Cardiology</p> <p>2. TransMed Exchange – University of Medicine and Pharmacy „Carol Davila” Bucharest, Romania, 5-11 Nov 2007, Dept. of Nefrology</p> <p>3. IFMSA Exchange – Mansoura, Egipt, 1-31 Aug 2007, Dept. of Cardiology</p>

SCIENTIFIC ACTIVITY

orcid.org/0000-0003-2496-5416
Scopus Author ID: 36998843700

H index: 13 (WOS)

Member of Center for Translational Research and Systems Medicine of the "Victor Babes" University of Medicine and Pharmacy, Timisoara (Romania)
<https://erris.gov.ro/Center-for-Translational-Res>

RESEARCH AREAS OF INTEREST:

- Endothelial dysfunction - pathogenic mechanisms and therapeutic targets
- Cardiovascular complications in the context of cardiometabolic pathology (diabetes mellitus, obesity, hypertension, inflammation)

INTERNAL, NATIONAL AND INTERNATIONAL GRANTS

A. Internal (UMFVBT) grants

1. INTERNAL GRANT – *post-doctoral competition*, Project number 6POSTDOC/1871/12.02.2020, Title: "Monoamine oxidase and metabolic memory - repositioning of MAO inhibitors as potential vasculo-protective agents in diabetes", MAODIAB; **ROLE: PROJECT DIRECTOR**
2. INTERNAL GRANT "Innovative fundamental research projects", Project number PIII-C5-PCFI-2017/2018-01, Title: "Role of vitamin D in modulation of vascular and mitochondrial function in adipose tissue in animal model and humans", VASC-ADIPO-MIT; **ROLE: PROJECT DIRECTOR**
3. INTERNAL GRANT "Young Researchers Competition", 2014, Project number PII-C2-TC-2014, Title: Role of Monoamine oxidases In Patogenesis of Peripheral Arteriopathy In Experimental Diabetes, ARTERIO-MAO-DIAB, **ROLE: PROJECT DIRECTOR**
4. INTERNAL GRANT "Innovative fundamental research projects", Project number PIII-C1-PCFI 2015/2016, Title: New pharmaceutical approaches for modulating the bioavailability of flavonoids with chemopreventive potential for malignant melanoma, FLAVOFORM, **ROLE: PARTNER RESPONSIBLE**
5. INTERNAL GRANT "Innovative fundamental research projects", Project number PIII-C1-PCFI 2014/2015, Title: Contribution of oxidative stress induced by monoamine oxidase to cardiovascular dysfunction and prognosis of patients with and without diabetes, MAO-CARDIO-SOX, **ROLE: MEMBER**

B. National grants

1. Program "IDEI-Proiecte de Cercetare Exploratorie" - Evaluation of cardioprotective effects of ATP-dependent potassium channel modulators, Project number PCE-2012-4-0512, 2013-2015, **ROLE: MEMBER**

C. International grants

1. Co-Leader from "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania- Erasmus+ KA2 Capacity Building in the field of Higher Education - **Strengthening capacities and digital competences in biomedical education through internationalization at home BIOSINT**, 101082863-BIOSINT-ERASMUS-EDU-2022-CBHE
2. Romania-France Cooperation Mobilities Programme „Brancusi-Hubert Curien”, "Novel Insights in Vascular Protection Mediated By Purinergic Signaling" – PUR-VASC-PROTECT, nr. 75 BM, 2017-2018, **ROLE: MEMBER**
3. Cooperation in Science and Technology (COST) – Action CA16225 "Realising the therapeutic potential of novel cardioprotective therapies" 2017 - **ROLE: MEMBER IN MANAGEMENT COMMITTEE FOR ROMANIA (SUBSTITUTE MEMBER)**
4. Cooperation in Science and Technology (COST) – Action BM1005 "Gasotransmitters: from basic science to therapeutic applications (ENOG: European Network on Gasotransmitters)", 2015 - **ROLE: MEMBER IN MANAGEMENT COMMITTEE FOR ROMANIA**
5. Hungary-Romania Cross-Border Cooperation Programme 2007-2013, "Twinning Project for the Joint Development of the Research Infrastructure", acronym HUO-TWIN, nr. HUO/1101/086/2.2.1, 2013-2014, **ROLE: MEMBER**
6. Hungary-Romania Cross-Border Cooperation Programme 2007-2013, "Development of the infrastructure for a pole of excellency in cardiovascular research", acronym HUO-CARDIO-POL", nr. HUO/0802/011, 2010-2012, **ROLE: MEMBER**
7. Hungary-Romania Cross-Border Cooperation Programme 2007-2013 "Implementation of a regional project for translational medical research concerning diseases with high impact in population - HU-RO TRANSMED", nr. HUO/0901/137/2.2.2, 2011-2012, **ROLE: MEMBER**

Fellowships

1. **2011-2012: POSDRU Fellowship /88/1.5/S/ 63117, Department of Pathophysiology "Victor Babes" University of Medicine and Pharmacy, Timisoara (Romania) and Institute for Cardiovascular Physiology, Goethe University, Frankfurt am Main (Germany), "The role of monoaminoxidases in pathogenesis of endothelial dysfunction"**
2. **2013: "Bursa Paulescu" fellowship, Romanian Society of Diabetes, nutrition and metabolic disorders, "The role of catecholamines from the vascular wall in the pathogenesis of endothelial dysfunction and neuropathy in diabetes"**
3. **2014-2015: POSDRU/159/1.5/S/136893, Pathophysiology "Victor Babes" University of Medicine and Pharmacy, Timisoara (Romania), "Experimental research on the role of vitamin D in improving the endothelial dysfunction in diabetes"**
4. **2014: "Neurodiab" fellowship, Romanian Society of Diabetic Neuropathy – Neurodiab; Participation in the Post-University Course „Magyar Imre", organized by European Association for the Study of Diabetes (EASD), Budapest, Hungary, 2014**

PRIZES (SELECTION)

1. **Distinguished Service Award In Cardiovascular Science, Medicine and Surgery** offered by **International Academy of Cardiovascular Sciences** at the 9th European Section Meeting of the International Academy of Cardiovascular Sciences, Timișoara, 2023
2. The 49 Congress of Romanian Society of Diabetes, Nutrition and Metabolic Disorders, 21-24 mai 2023, Poiana Brașov, Romania - **PRIZE POSTER PRESENTATION**
3. The 48th Congress of Romanian Society of Diabetes, Nutrition and Metabolic Disorders, 4-7 sept 2022, Poiana Brașov, Romania - **PRIZE ORAL PRESENTATION**
4. The 61 National Congress of Romanian Society of Cardiology, 21-24 sept 2022, Sinaia/online, Romania - **PRIZE ORAL PRESENTATION**
5. **Prize for the scientific activity** offered by the "Victor Babes" University of Medicine and Pharmacy Timisoara, 2018
6. The 5th European Section Meeting of the International Academy of Cardiovascular Sciences – "Advances in Cardiovascular Research – from basic mechanisms to therapeutic strategies", Smolenice Castle, Bratislava, Slovakia, 23-26 mai 2018 – **EARLY CAREER INVESTIGATOR COMPETITION AWARD**
7. Congress of Romanian Society of Pathophysiology, 7-9 Sept. 2017, Cluj-Napoca, Romania, **Ist PRIZE ORAL PRESENTATION**
8. The 43rd Congress of Romanian Society of Diabetes, Nutrition and Metabolic Disorders, 24-27 mai 2017, Brașov, Romania, **IInd PRIZE ORAL PRESENTATION**
9. The 42nd Congress of Romanian Society of Diabetes, Nutrition and Metabolic Disorders, 25-28 May 2016, Brașov, Romania – **IInd PRIZE ORAL PRESENTATION**
10. The 2nd European Section Meeting of the International Academy of Cardiovascular Science Belgrade, Serbia, 8-10 Oct. 2015 – **Ist PRIZE POSTER PRESENTATION (1st author)**
11. International Symposium in Cardiovascular Research "From the bench to the patient's bed", Smolenice Castle, Slovakia, 2-5 Sept. 2015 - **PAVEL BRAVENY POSTER COMPETITION AWARD**
12. **Eminent Researcher Award** of the year granted by Association "University Horizons"– Dec. 2014
13. **Diploma of Merit for outstanding merits in scientific research activity** offered by the City Hall of Timișoara, Dec. 2014
14. International Symposium "Advances in Cardiovascular Research", Bratislava, Slovakia, 23-26 May 2013 - **YOUNG INVESTIGATOR AWARD**
15. The 91st Annual Meeting of The German Physiological Society, 22-25 March 2012, Dresden, Germany – **BEST POSTER PRIZE (co-author)**

MEMBER OF SCIENTIFIC SOCIETIES

International Academy of Cardiovascular Sciences – European Section
Romanian Society of Pathophysiology
Romanian Society of Physiology
Romanian Society of Diabetes, nutrition and diabetic disorders

OTHER ACTIVITIES

Member in Eparchial Council of the Romanian Orthodox Archdiocese of Timișoara.

REPRESENTATIVE PUBLICATIONS

1. Merce AP, Ioniță LN, Bîna AM, Popescu S, Lighezan R, Petrescu L, Borza C, **Sturza A**, Muntean DM, Crețu OM. Monoamine oxidase is a source of cardiac oxidative stress in obese rats: the beneficial role of metformin. **MOL CELL BIOCHEM**. 2023 Jan;478(1):59-67. doi: 10.1007/s11010-022-04490-5, IF: **3.842**
2. Lascu A, Ioniță LN, Buriman DG, Merce AP, Deaconu L, Borza C, Crețu OM, **Sturza A**, Muntean DM, Feier HB. Metformin and empagliflozin modulate monoamine oxidase-related oxidative stress and improve vascular function in human mammary arteries. **MOL CELL BIOCHEM**. 2022 Dec 30. doi: 10.1007/s11010-022-04633-8, IF: **3.842**
3. Lascu A, Șoșdean R, Ioniță LN, Pescariu AS, Petrescu L, Ionac A, Luca CT, **Sturza A**, Feier HB. Monoamine Oxidase (MAO) Is Expressed at the Level of Mitral Valve with Severe Regurgitation in Hypertrophic Obstructive Cardiomyopathy: A Case Report. *Medicina (Kaunas)*. 2022 Dec 15;58(12):1844. doi: 10.3390/medicina58121844, IF: **2.948**
4. Merce AP, Ioniță LN, Bîna AM, Popescu S, Lighezan R, Petrescu L, Borza C, **Sturza A**, Muntean DM, Crețu OM. Monoamine oxidase is a source of cardiac oxidative stress in obese rats: the beneficial role of metformin. **MOL CELL BIOCHEM**. 2022 Jun 20. doi: 10.1007/s11010-022-04490-5. Epub ahead of print. PMID: 35723772, IF: **3.842**
5. Savencu CE, Lința A, Farcaș G, Bîna AM, Crețu OM, Malița DC, Muntean DM, **Sturza A**. Impact of Dietary Restriction Regimens on Mitochondria, Heart, and Endothelial Function: A Brief Overview. **FRONTIERS IN PHYSIOLOGY**. 2021 Dec 16;12:768383. doi: 10.3389/fphys.2021.768383, IF: **4.134**
6. Ioniță LN, Gaiță L, Bîna AM, Șoșdean R, Lighezan R, Sima A, Malița D, Crețu OM, Burlacu O, Muntean DM, **Sturza A**. Metformin alleviates monoamine oxidase-related vascular oxidative stress and endothelial dysfunction in rats with diet-induced obesity. **MOLECULAR AND CELLULAR BIOCHEMISTRY**. 2021 Jul 3. doi: 10.1007/s11010-021-04194-2. PMID: 34216348. IF: **3.396**
7. Avram VF, Bîna AM, Sima A, Aburel OM, **Sturza A**, Burlacu O, Timar RZ, Muntean DM, Elmér E, Crețu OM. Improvement of Platelet Respiration by Cell-Permeable Succinate in Diabetic Patients Treated with Statins. **LIFE (BASEL)**. 2021 Mar 28;11(4):288. doi: 10.3390/life11040288, IF: **3.78**
8. Piollet M, **Sturza A**, Chadet S, Gabillard-Lefort C, Benoist L, Muntean DM, Aburel OM, Angoulvant D, Ivanov F. P2Y11 Agonism Prevents Hypoxia/Reoxygenation- and Angiotensin II-Induced Vascular Dysfunction and Intimal Hyperplasia Development. **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES**, 2021 Jan 16;22(2):855. doi: 10.3390/ijms22020855. IF: **4.556**
9. **Sturza A**, Popoiu CM, Ioniță M, Duicu OM, Olariu S, Muntean DM, Boia ES. Monoamine Oxidase-Related Vascular Oxidative Stress in Diseases Associated with Inflammatory Burden, **OXIDATIVE MEDICINE AND CELLULAR LONGEVITY**, 2019 Apr 15;2019:8954201, doi: 10.1155/2019/8954201, IF: **5.076**
10. **Sturza A**, Olariu S, Ioniță M, Duicu OM, Văduva AO, Boia E, Muntean DM, Popoiu CM. Monoamine oxidase is a source of oxidative stress in obese patients with chronic inflammation, **CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY**, 2019 Sep;97(9):844-849, doi: 10.1139/cjpp-2019-0028, IF: **1.946**
11. **Sturza A**, Văduva A, Uțu D, Rațiu C, Pop N, Duicu O, Popoiu C, Boia E, Matusz P, Muntean DM, Olariu S, Vitamin D improves vascular function and decreases monoamine oxidase A expression in experimental diabetes, **MOLECULAR AND CELLULAR BIOCHEMISTRY**, 2019 Mar;453(1-2):33-40., doi: 10.1007/s11010-018-3429-2, IF: **2.795**
12. **Sturza A**, Pavel I, Ancușă S, Danciu C, Dehelean C, Duicu O, Muntean D, Quercetin exerts an inhibitory effect on cellular bioenergetics of the B164A5 murine melanoma cell line, **MOLECULAR AND CELLULAR BIOCHEMISTRY**, 2018; 447(1-2): 103-109, doi: 10.1007/s11010-018-3296-x, IF: **2.884**

13. Muntean DM, **Sturza A**, Dănilă MD, Borza C, Duicu OM, Momoș C, The Role of Mitochondrial Reactive Oxygen Species in Cardiovascular Injury and Protective Strategies, **OXIDATIVE MEDICINE AND CELLULAR LONGEVITY**, 2016, Article Number: 8254942, doi: 10.1155/2016/8254942, **IF: 4.936**
14. **Sturza A**, Duicu OM, Vaduva A, Dănilă MD, Noveanu L, Varró A, Muntean DM. Monoamine oxidases are novel sources of cardiovascular oxidative stress in experimental diabetes, **CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY**, 2015; 93(7): 555-561, doi: 10.1139/cjpp-2014-0544, **IF: 2.21**
15. **Sturza A**, Leisegang MS, Babelova A, Schröder K, Benkhoff S, Loot AE, Fleming I, Schulz R, Muntean DM, Brandes RP, Monoamine oxidases are mediators of endothelial dysfunction in the mouse aorta, **HYPERTENSION**, 2013; 62(1): 140-146, doi: 10.1161/HYPERTENSIONAHA.113.01314, **IF: 6.823**
16. Benkhoff S, Loot AE, Pierson I, **Sturza A**, Kohlstedt K, Fleming I, Shimokawa H, Grisk O, Brandes RP, Schröder K, Leptin Potentiates Endothelium-Dependent Relaxation by Inducing Endothelial Expression of Neuronal NO Synthase, **ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY**, 2012; 32(7): 1605-1612, doi: 10.1161/ATVBAHA.112.251140, **IF: 6.086**

Timișoara
30.01.2024

Assoc. Prof. Adrian Sturza, MD, PhD