

PERSONAL INFORMATION

Adrian Sturza



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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, Specialist 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 Summa cum laudae 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

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H index: 11 (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 and oxidative stress
- Diabetes and vascular pathology

RESEARCH RELATED COMPETENCES:

- Studies in isolated organ bath/myograph - vasomotor reactivity of isolated vascular rings
- Molecular biology techniques: qRT-PCR, Western blot, Immuno-histology
- Reactive oxygen species measurements techniques

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 Pathogenesis 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. 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**
2. 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)**
3. 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**
4. 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**
5. 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**
6. 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. **Prize for the scientific activity** offered by the “Victor Babes” University of Medicine and Pharmacy Timisoara, 2018
2. 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**
3. Congress of Romanian Society of Pathophysiology, 7-9 Sept. 2017, Cluj-Napoca, Romania, **Ist PRIZE ORAL PRESENTATION**
4. 43rd Congress of Romanian Society of Diabetes, Nutrition and Metabolic Disorders, 24-27 mai 2017, Braşov, Romania, **IInd PRIZE ORAL PRESENTATION**
5. 42nd Congress of Romanian Society of Diabetes, Nutrition and Metabolic Disorders, 25-28 May 2016, Braşov, Romania – **IInd PRIZE ORAL PRESENTATION**
6. 2nd European Section Meeting of the International Academy of Cardiovascular Science Belgrade, Serbia, 8-10 Oct. 2015 – **Ist PRIZE POSTER PRESENTATION (1st author)**
7. 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**
8. **Prize of EMINENT RESEARCHER** offered by “Orizonturi Universitare” Association, Timisoara City Council & Romanian Academy – Dec. 2014
9. International Symposium “Advances in Cardiovascular Research”, Bratislava, Slovakia, 23-26 May 2013 - **YOUNG INVESTIGATOR AWARD**
10. 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

REPRESENTATIVE PUBLICATIONS

1. Ionică LN, Gaiță L, Bîină AM, Soșdean 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**
2. Piollet M, **Sturza A**, Chadet S, Gabillard-Lefort C, Benoist L, Muntean DM, Aburel OM, Angoulvant D, Ivanes 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**
3. **Sturza A**, Popoiu CM, Ionică 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**
4. **Sturza A**, Olariu S, Ionică 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**
5. **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**
6. **Sturza A**, Pavel I, Ancușa 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**
7. 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**
8. **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**
9. **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**
10. 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

Adrian Sturza, MD, PhD

03.02.2022