



Adrian Sturza

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WORK EXPERIENCE

"VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY – TIMIȘOARA, ROMANIA

Website: www.umft.ro

PROFESSOR – 2025 – Current

Department of Pathophysiology - Teaching, Research Activity and PhD Supervision

ASSOCIATE PROFESSOR – 2016 – 2025

Department of Pathophysiology, Teaching and Research Activity

LECTURER – 2014 – 2016

Department of Pathophysiology, Teaching and Research Activity

ASSISTANT PROFESSOR – 2013 – 2014

Department of Pathophysiology, Teaching and Research Activity

"PIUS BRINZEU" EMERGENCY HOSPITAL – TIMIȘOARA, ROMANIA

Website: www.hosptm.ro

MEDICAL DOCTOR – 2016 – Current

Consultant in Diabetes, Nutrition and Metabolic Diseases

RESIDENT PHYSICIAN – 2011 – 2015

Resident Physician in Diabetes, Nutrition and Metabolic Diseases

RESIDENT PHYSICIAN – 2010

Resident Physician in Laboratory Medicine

EDUCATION AND TRAINING

2013 – 2024 Timișoara, Romania

HABILITATION - MEDICINE "Victor Babeș" University of Medicine and Pharmacy

Habilitation Thesis: Monoamine Oxidase-Related Oxidative Stress In Cardio-Metabolic Pathologies: A Translational Approach

2014 – 2015 Timișoara, Romania

TEACHING TRAINING PROGRAM, LEVELS I AND II West University of Timișoara

2009 – 2013

PHILOSOPHIAE DOCTOR (PHD) - MEDICINE "Victor Babeș" University of Medicine and Pharmacy

Cotutelle PhD - Supervised by Prof. Danina Muntean (Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania) and Prof. Ralf Brandes (Institute for Cardiovascular Physiology, Goethe University Frankfurt, Germany), POSDRU Research Fellowship PhD title obtained with *Summa cum laudae* distinction.

PhD Thesis: The Role of Monoamine Oxidases in the Pathogenesis of Experimental Endothelial Dysfunction

Level in EQF EQF level 8

2003 – 2009 Timișoara, Romania

MEDICAL DOCTOR "Victor Babeș" University of Medicine and Pharmacy

Level in EQF EQF level 7

1999 – 2003 Timișoara, Romania

HIGH SCHOOL DIPLOMA (BACCALAUREATE DIPLOMA) Grigore Moisil Theoretical High School

Professional Certificate in Computer Operation & Intermediate Programming

Level in EQF EQF level 4

● **HONOURS AND AWARDS**

Selection of Prizes/Awards

Distinguished Service Award in Cardiovascular Science, Medicine and Surgery

9th European Section Meeting, International Academy of Cardiovascular Sciences (IACS-ES), Timișoara, 4–7 October 2023

Poster Presentation Award

49th National Congress of the Romanian Society of Diabetes, Nutrition and Metabolic Diseases, Poiana Brașov, 21–24 May 2023

Oral Presentation Award

48th National Congress of the Romanian Society of Diabetes, Nutrition and Metabolic Diseases, Poiana Brașov, 4–7 September 2022

Oral Presentation Award

61st National Congress of Cardiology, Sinaia / Online, 21–24 September 2022

Award for Scientific Activity

Victor Babeș University of Medicine and Pharmacy, Timișoara, 2018

Early Career Investigator Competition Award

5th European Section Meeting, International Academy of Cardiovascular Sciences, Smolenice Castle, 23–26 May 2018

First Prize – Oral Presentation

Congress of the Romanian Society of Pathophysiology, Cluj-Napoca, 7–9 September 2017

Second Prize – Oral Presentation

Congress of the Romanian Society of Diabetes, Nutrition and Metabolic Diseases, Brașov, 2016; 2017

Poster Presentation Award

2nd European Section Meeting, International Academy of Cardiovascular Sciences, Belgrade, 8–10 October 2015

Pavel Braveny Poster Competition Award

Advances in Cardiovascular Research Symposium, Smolenice Castle, 2–5 September 2015

“Eminent Researcher” Award

“Orizonturi Universitare” Association & Timișoara Local Council, 2014

Neurodiab Award

Participation in the “Magyar Imre” Postgraduate Course, organized by the European Association for the Study of Diabetes (EASD), Budapest, 20–22 November 2014

Young Investigator Award

Advances in Cardiovascular Research Symposium, Smolenice Castle, 23–26 May 2013

Best Poster Prize

Conference “Sudden Cardiac Death and Cardioprotection”, Timișoara, 6–9 September 2012

Best Poster Prize

24th National Conference of the Romanian Society of Physiological Sciences, Oradea–Băile Felix, 2–5 June 2010

First Prize – Oral Presentation (Basic Sciences)

National and International Congresses for Students and Young Physicians, Bucharest (2007, 2008) and Iași (2008)

● **MEMBERSHIPS & PROFESSIONAL ACTIVITIES**

2025 – CURRENT

Vice President, Romanian Society of Pathophysiology

Member: International Academy of Cardiovascular Sciences – European Section; Romanian Society of Diabetes, Nutrition and Metabolic Diseases; Romanian Society of Physiology; Romanian Society of Cardiology

● **ACADEMIC AND ADMINISTRATIVE ROLES**

Member, Faculty Council, Faculty of Medicine, Victor Babeș University of Medicine and Pharmacy, Timișoara

Terms: 2020–2024; 2024–2028

Link www.umft.ro

Member, Research Ethics Committee, Victor Babeș University of Medicine and Pharmacy, Timișoara

Terms: 2020–2024; 2024–2028

Link www.umft.ro

RESEARCH GRANTS AND PROJECTS

International Research Projects

Co-Leader (UMF Timișoara Partner)

Erasmus+ KA2 Capacity Building in Higher Education – *BIOSINT: Strengthening Capacities and Digital Competences in Biomedical Education through Internationalization at Home*

Project No. 101082863-BIOSINT-ERASMUS-EDU-2022-CBHE (2023–2026)

Project Team Member

Romania–France “Brâncuși–Hubert Curien” Programme – *PUR-VASC-PROTECT* (Project No. 75 BM, 2017–2018)

Project Team Member

Hungary–Romania Cross-Border Cooperation Programme 2007–2013:

HURO-TWIN (HURO/1101/086/2.2.1, 2013–2014)

HURO-CARDIO-POL (HURO/0802/011, 2010–2012)

HU-RO TRANSMED (HURO/0901/137/2.2.2, 2011–2012)

COST Actions

Management Committee Member (Romania)

COST Action CA16225 – *Realising the Therapeutic Potential of Novel Cardioprotective Therapies* (2017)

Management Committee Member (Romania)

COST Action BM1005 – *Gasotransmitters: From Basic Science to Therapeutic Applications (ENOG)* (2015)

National Research Projects

Internal Grants – Victor Babeș University of Medicine and Pharmacy, Timișoara

Principal Investigator

6POSTDOC/2020 – *Monoamine Oxidase and Metabolic Memory: Repositioning MAO Inhibitors as Vascular Protective Agents in Diabetes* (2020)

Principal Investigator

PIII-C5-PCFI-2017/2018-01 – *VASC-ADIPO-MIT, Role of Vitamin D in the Modulation of Vascular and Mitochondrial Function* (2017–2018)

Resp. Partner 1

PIII-C1-PCFI 2015/2016 – *FLAVOFORM, Modulation of the Bioavailability of Flavonoids with Chemopreventive Potential* (2015–2016)

Principal Investigator

PII-C2-TC-2014 – *ARTERIO-MAO-DIAB, Role of Monoamine Oxidase in Peripheral Artery Disease in Diabetes* (2014)

Project Team Member

PIII-C1-PCFI 2014/2015 – *MAO-CARDIO-SOX, MAO-Induced Oxidative Stress and Cardiovascular Dysfunction* (2014–2015)

National Competitive Grant

Project Team Member

IDEI Programme – Exploratory Research Projects (PCE-2012-4-0512), *Cardioprotective Effects of KATP Channel Modulators* (2013–2015)

ORGANISATIONAL SKILLS

Chair, Central organizing committee of the License Examination, “Victor Babeș” University of Medicine and Pharmacy, Timișoara (2024, 2025)

Director of the Local Organizing Committee, 9th European Section Meeting of the International Academy of Cardiovascular Sciences, October 4th – 7th, 2023, Timișoara, Romania

Vice President, Organizing Committee, National Congress of the Romanian Society of Pathophysiology, Timișoara, October 2–5, 2024

DOCTORAL AND POSTDOCTORAL FELLOWSHIPS

Postdoctoral Fellowship

DocMed.Net_2.0 (POSDRU/159/1.5/S/136893), 2014–2015

Department of Pathophysiology, Victor Babeș University of Medicine and Pharmacy, Timișoara

Supervisor: Prof. Danina Muntean

Doctoral Fellowship

POSDRU/88/1.5/S/63117, 2010–2013

Department of Pathophysiology, Victor Babeș University of Medicine and Pharmacy, Timișoara & Institute of Cardiovascular Physiology, Goethe University Frankfurt

Supervisors: Prof. Danina Muntean; Prof. Ralf Brandes

Paulescu Fellowship (2013)

Awarded by the Romanian Society of Diabetes, Nutrition and Metabolic Diseases

RESEARCH CENTER MEMBERSHIP

Member, Center for Translational Research and Systems Medicine, Victor Babeş University of Medicine and Pharmacy, Timișoara

Research Interests

Molecular and cellular mechanisms of endothelial dysfunction and vascular injury / Cardiometabolic disease and cardiovascular complications / Pathophysiological mechanisms of metabolic syndrome and diabetes / Translational research bridging experimental pathophysiology and clinical practice

Link <https://www.umft.ro/ro/cercetare/centre-de-cercetare/cert-meds/>

EDITORIAL ACTIVITY

Associate Editor (Medicine Section), Timisoara Medical Journal

Link www.tmj.ro

Editorial Board Member, Molecular and Cellular Biochemistry

Link link.springer.com/journal/11010

ACADEMIC IDENTIFIERS AND RESEARCH METRICS

ORCID

Link orcid.org/0000-0003-2496-5416

Web of Science ResearcherID

AAL-8869-2020

H index

17 (WoS) | 18 (Scopus) | 20 (Google Scholar)

SELECTED PUBLICATIONS

Relevant articles in ISI-Indexed Journals

Rațiu, S.; Mariș, M.I.; Furdui-Lința, A.V.; Sima, L.V.; Bratu, T.I.; **Sturza, A.**; Muntean, D.M.; Crețu, O.M. Oxidative Stress in the Pathophysiology of Chronic Venous Disease: An Overview. **Antioxidants (Basel, Switzerland)** 2025, 14, <https://doi.org/10.3390/antiox14080989>.

Pop, A.; Dănilă, M.; Giuchici, S.; Buriman, D.; Lolescu, B.; **Sturza, A.**; Muntean, D.; Lascu, A. Epicardial adipose tissue as target of the incretin-based therapies in cardio-metabolic pathologies: a narrative review. **Canadian journal of physiology and pharmacology** 2025, 103, 182-192, <https://doi.org/10.1139/cjpp-2024-038>.

Ionică, L.N.; Buriman, D.G.; Lința, A.V.; Șoșdean, R.; Lascu, A.; Streian, C.G.; Feier, H.B.; Petrescu, L.; Mozoș, I.M.; **Sturza, A.**; et al. Empagliflozin and dapagliflozin decreased atrial monoamine oxidase expression and alleviated oxidative stress in overweight non-diabetic cardiac patients. **Molecular and cellular biochemistry** 2025, 480, 1645-1655, <https://link.springer.com/article/10.1007/s11010-024-05076-z>.

Hâncu, I.M.; Giuchici, S.; Furdui-Lința, A.V.; Lolescu, B.; **Sturza, A.**; Muntean, D.M.; Dănilă, M.D.; Lighezan, R. The highs and lows of monoamine oxidase as molecular target in cancer: an updated review. **Molecular and cellular biochemistry** 2025, 480, 3225-3252, <https://link.springer.com/article/10.1007/s11010-024-05192-w>.

Șoșdean, R.; Dănilă, M.D.; Ionică, L.N.; Pescariu, A.S.; Mircea, M.; Ionac, A.; Mornoș, C.; Luca, C.T.; Feier, H.B.; Muntean, D.M.; et al. Monoamine Oxidase Contributes to Valvular Oxidative Stress: A Prospective Observational Pilot Study in Patients with Severe Mitral Regurgitation. **International journal of molecular sciences** 2024, 25, <https://doi.org/10.3390/ijms251910307>.

Iordan, L.; Gaita, L.; Timar, R.; Avram, V.; **Sturza, A.**; Timar, B. The Renoprotective Mechanisms of Sodium-Glucose Cotransporter-2 Inhibitors (SGLT2i)-A Narrative Review. **International journal of molecular sciences** 2024, 25, <https://doi.org/10.3390/ijms25137057>.

Ionică, L.N.; Lința, A.V.; Bătrîn, A.D.; Hâncu, I.M.; Lolescu, B.M.; Dănilă, M.D.; Petrescu, L.; Mozoș, I.M.; **Sturza, A.**; Muntean, D.M. The Off-Target Cardioprotective Mechanisms of Sodium-Glucose Cotransporter 2 Inhibitors: An Overview. **International journal of molecular sciences** 2024, 25, <https://doi.org/10.3390/ijms25147711>.

Piollet, M.; **Sturza, A.**; Chadet, S.; Gabillard-Lefort, C.; Benoist, L.; Muntean, D.M.; Aburel, O.M.; 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, 22, <https://doi.org/10.3390/ijms22020855>.

Sturza, A.; Duicu, O.M.; Vaduva, A.; Dănilă, M.D.; Noveanu, L.; Varró, A.; Muntean, D.M. Monoamine oxidases are novel sources of cardiovascular oxidative stress in experimental diabetes. **Canadian journal of physiology and pharmacology** 2015, 93, 555-561, <https://doi.org/10.1139/cjpp-2014-0544>.

Sturza, A.; Leisegang, M.S.; Babelova, A.; Schröder, K.; Benkhoff, S.; Loot, A.E.; Fleming, I.; Schulz, R.; Muntean, D.M.; Brandes, R.P. Monoamine oxidases are mediators of endothelial dysfunction in the mouse aorta. **Hypertension** 2013, 62, 140-146, <https://doi.org/10.1161/HYPERTENSIONAHA.113.0131>.

Benkhoff, S.; Loot, A.E.; Pierson, I.; **Sturza, A.**; Kohlstedt, K.; Fleming, I.; Shimokawa, H.; Grisk, O.; Brandes, R.P.; Schröder, K. Leptin potentiates endothelium-dependent relaxation by inducing endothelial expression of neuronal NO synthase. **Arteriosclerosis, thrombosis, and vascular biology** 2012, 32, 1605-1612, <https://doi.org/10.1161/ATVBAHA.112.251140>.

Full publication list available on ORCID (orcid.org/0000-0003-2496-5416) and Web of Science (ID: AAL-8869-2020).

Timișoara, Romania , 25/02/2026