



Cristiana Buştea

WORK EXPERIENCE

University of Oradea, Doctoral School of Biomedical Sciences

Address: Universităţii Street 1, 410087, Oradea, Romania

[02/2024 – Current] **Habilitated Associate Professor of Medicine**

- Conducting medical research, lecturing, and clinical training in Cardiology
- Supervising PhD candidates as an officially affiliated member of the Doctoral School.
- Evaluating doctoral theses and serving on academic examination boards.

University of Oradea, Faculty of Medicine and Pharmacy <https://fmf.uoradea.ro/>

Address: 1 Decembrie Square No 10, 410073, Oradea, Romania | **Email address:** fmf@uoradea.ro

[2022 – Current] **Assoc. Professor, Pathophysiology, Department of Preclinical Sciences**

- Delivering comprehensive lectures in Pathophysiology to undergraduate medical students.
- Instructing students on foundational disease concepts and the identification of diverse etiological factors.
- Elucidating primary pathogenic pathways to ensure a deep understanding of disease development and progression.
- Discovering underlying mechanisms responsible for the clinical manifestations and leading symptoms of disorders.

University of Oradea, Faculty of Medicine and Pharmacy <https://fmf.uoradea.ro/>

Address: 1 Decembrie Square No 10, 410073, Oradea, Romania | **Email address:** fmf@uoradea.ro

[1997 – 2022] **Assistant Professor, Pathophysiology, Department of Preclinical Sciences**

- Guiding medical students in their discovery of the human body as a whole by understanding the pathogenetic mechanism of diseases.
- Helping students to establish pathogenetic diagnosis by working with algorithms.
- Clinical scenarios and/or demonstrations on experimental models show the students the way they should tackle real clinical cases.

Bihor County Clinical Emergency Hospital <https://spitaljudetean-oradea.ro/web/>

Address: 65 Gheorghe Doja street, 410169, Oradea, Romania

[02/06/2025 – Current] **Head of Unit for Advanced Surveillance and Treatment of Critical Cardiac Patients, Cardiology Clinic, Bihor County Clinical Emergency Hospital**

Administrative Management

- Coordinating and supervising the daily medical and administrative operations of the 16-bed Coronary Care Unit (CCU).
- Managing and leading a multidisciplinary team of cardiologists, residents, and specialized ICU/CCU nursing staff.

- Developing and implementing evidence-based clinical protocols, internal procedures, and quality-of-care standards for critical cardiac patients.
- Optimizing department workflow and resource allocation in close proximity to the Cardiac Catheterization Lab and Cardiovascular Surgery unit.

Advanced Cardiac Care

- Overseeing the admission, diagnosis, stabilization, and advanced treatment of high-risk patients with acute cardiovascular pathologies (e.g., acute coronary syndromes, severe heart failure, cardiogenic shock, and life-threatening arrhythmias).
- Managing continuous non-invasive and invasive hemodynamic monitoring, mechanical ventilation, and advanced cardiac life support.
- Leading daily clinical rounds, case discussions, and cross-departmental consultations for complex emergency cases.

Academic Integration

- Supervising and mentoring cardiology residents, fellows, and PhD candidates rotating through the CCU.
- Integrating clinical practice with academic research, facilitating data collection for clinical trials and doctoral research tracks in acute cardiology.
- Conducting bedside teaching and practical training sessions for university medical students and postgraduate trainees.

[2016 – Current] **President of the Research Ethics Committee (Institutional Review Board)**

- Leading and governing the institutional ethics panel, managing a multidisciplinary core team of 6 specialist members to evaluate clinical and academic research proposals.
- Reviewing and approving clinical trial protocols, academic research projects, and doctoral/undergraduate medical studies to ensure strict compliance with national legislations, European directives, and international bioethics declarations (Declaration of Helsinki, ICH-GCP).
- Evaluating informed consent frameworks, patient privacy mechanisms, and data protection measures (GDPR) for all human subject research conducted within the hospital network.
- Mediating ethical dilemmas and issuing official consultative opinions regarding clinical research disputes, physician-patient interactions, and academic integrity matters.
- Supervising institutional audit paths for bioethical compliance, guaranteeing that all clinical trials operating under the hospital's jurisdiction maintain the highest medical and ethical standards.)

[2007 – Current] **Senior cardiologist, Cardiology Clinic - Intensive Cardiac Care Unit**

Clinical Care and Supervision:

- Directing the clinical management of critical cardiovascular cases in the CCU and coordinating emergency call duties.

Resident Mentorship:

- Overseeing the clinical instruction, bedside teaching, and professional development of junior and senior resident physicians.

Postgraduate Education:

- Contributing as a lecturer in certified postgraduate courses, aligning clinical evidence with continuing medical education for doctors.

County Clinical Emergency Hospital of Oradea <https://spitaljudetean-oradea.ro › web>

Address: 65 Gheorghe Doja street, 410169, Oradea, Romania

[2001 – 2008] **Specialist cardiologist, Cardiology Clinic**

- Treating the assigned patients.
- Emergency on-call duties.
- Participation in training courses.

- Activity with resident doctors (supervision, teaching, guidance).
- Collaborator in post-graduate training courses for doctors.

County Clinical Emergency Hospital of Oradea <https://spitaljudetean-oradea.ro>

Address: 65 Gheorghe Doja street, 410169, Oradea, Romania

[1996 – 2002] **Resident in cardiology, Cardiology Clinic**

- Patient care under the guidance of a senior cardiologist,
- Participation in post-graduate training courses.
- Emergency on-call duties

EDUCATION AND TRAINING

[22/01/2024 – Current] **Habilitation Certificate in Medicine (Dr. habil.)**

Ministry of Education/University of Oradea <https://www.uoradea.ro/>

Address: Universităţii Street, 1, 410087, Oradea, Romania | **Field(s) of study:** Medicine

[2022] **Certificate of Language Proficiency, English Language**

The Ministry of Education and Research, University of Oradea, Faculty of Letters

[2013] **Certificate of competence in transesophageal echocardiography**

The Romanian Ministry of Health

[2007] **Certificate of Senior cardiologist**

The Romanian Ministry of Health

[2009] **PhD degree**

University of Oradea, Faculty of Medicine and Pharmacy

Field(s) of study: Health and welfare: • *Medicine* | **Final grade:** Doctor

[2004] **Master's degree in teacher training**

University of Oradea, DPPP

[2006] **License to exercise in the nuclear field, RI specialty**

Government of Romania, National Commission for the Control of Nuclear Activities

[2003] **Certificate of competence in transthoracic echocardiography**

The Romanian Ministry of Health, CNPPMF

[2001] **Certificate of specialist cardiologist**

The Romanian Ministry of Health

[1989 – 1996] **Medical Doctor Diploma**

Victor Babeş University of Medicine and Pharmacy, Faculty of Medicine <https://www.umft.ro/>

Address: 2 Eftimie Murgu Square, 300041, Timişoara, Romania | **Field(s) of study:** Health and welfare: • *Medicine* | **Final grade:** Doctor-medic | **Thesis:** Medicină Generală

[1984 – 1989] **Baccalaureate Diploma**

"Ioan Slavici" Mathematics and Physics High School (Moise Nicoară National College) <https://www.moisencoara.ro/>

Address: Piaţa Moise Nicoară 1, Arad, Romania | **Field(s) of study:** Education | **Final grade:** Profilul matematică-fizică

RESEARCH AND BIBLIOMETRIC INDICATORS

Hirsch Index (H-index): 17 (Web of Science / Scopus)

ORCID iD: 0000-0003-1252-0057

ResearcherID: AAD-3310-2022

Total Citations: 563

SELECTION OF SCIENTIFIC ARTICLES PUBLISHED IN ISI WEB OF SCIENCE INDEXED JOURNALS

Herlaş-Pop A, Radu A-F, Radu A, Bungau GS, Tit DM, Babes EE, Bustea C. The Mental Health–Acute Coronary Syndrome Continuum: Bidirectional Pathophysiological Links and Clinical Implications. *Medical Sciences*, 2026, 14(1):138. DOI: 10.3390/medsci14010138.

Radu A-F, Radu A, Bungau GS, Tit DM, Vesa CM, Jurca T, Uivarosan D, Gitea D, Brata R, Bustea C. Polypharmacy and Drug–Drug Interaction Architecture in Hospitalized Cardiovascular Patients: Insights from Real-World Analysis. *Biomedicines*, 2026, 14(1):218. DOI: 10.3390/biomedicines14010218.

Bustea C, Radu A-F, Maghiar PB, Brata R, Babes EE. Swinging Mass Through the Pulmonary Valve: A Rare Case of Right Ventricular Myxoma. *Life*, 2025, 15(11):1750. DOI: 10.3390/life15111750

SELECTION OF PUBLISHED BOOKS AND BOOK CHAPTERS

Buştea C, Bungău AF, Muste FA. Enhancing Critical Thinking: Clinical Case Reports as Complementary Material for Pathophysiology Lectures (Original title in Romanian: Dezvoltarea Gândirii Critice: Cazuri Clinice prezentate ca şi Material didactic Complementar Cursurilor de Fiziopatologie). University of Oradea Publishing House, Oradea, Romania, 2023, 118 pp. ISBN: 978-606-10-2259-5.

Buştea C. Cardiogenic Shock (Original title in Romanian: Şocul cardiogen). In: Popescu MI et al. (Eds.), *Short Treatise on Cardiology* (Original title: Mic tratat de cardiologie), pp. 145–151. University of Oradea Publishing House, Oradea, Romania, 2025, 265 pp. ISBN: 978-606-10-2391-2.

Babeş K, Buştea C, Cozma A. CCU – Diagnostic Protocols – Biological Monitoring (Original title in Romanian: USTACC – protocoale diagnostice – monitorizarea biologică). In: Coman M et al. (Eds.), *Advances in Cardiology 2014* (Original title: Progrese în Cardiologie 2014), pp. 137–145. Romanian Society of Cardiology, Media Med Publicis Publishing House, Bucharest, Romania, 2014, 387 pp. ISSN: 1841-3731.

EDITORIAL AND PEER-REVIEWING ACTIVITIES

Guest Editor for Special Issues

- **Guest Editor** | *Biomedicines* (MDPI, Web of Science / PubMed Indexed)
 - Special Issue: "**Exploring Acute Coronary Syndrome: Insights from Basic and Clinical Research**"

- Special Issue: "**Exploring Acute Coronary Syndrome: Insights from Basic and Clinical Research — 2nd Edition**"
- Special Issue: "**Oxidative Stress and Cardiovascular Diseases**"
- Special Issue: "**Feature Reviews on Cardiovascular and Metabolic Diseases**"
- **Guest Editor** | *Life* (MDPI, Web of Science / PubMed Indexed)
 - Special Issue: "**Cardiovascular Diseases: From Basic Research to Clinical Application**"
 - Special Issue: "**Cardiovascular Diseases: From Basic Research to Clinical Application — 2nd Edition**"
 - Special Issue: "**Cardiovascular Diseases: From Basic Research to Clinical Application — 3rd Edition**"

Editorial Responsibilities & Core Competencies:

- **Defining the scientific scope and direction** for multi-edition series bridging basic pathophysiological mechanisms with clinical cardiology applications.
- **Inviting and collaborating** with leading international researchers, clinicians, and academic scientists to submit high-impact original research and comprehensive reviews.
- **Managing the peer-review workflow**, evaluating referee reports, and executing final editorial decisions regarding manuscript acceptance based on rigorous methodology and scientific merit.

Peer-Reviewing Activities

Verified reviewer status available via Web of Science ResearcherID profile:
AAD-3310-2022

- *Biomedicines* [1]
- Biomedicine and Pharmacotherapy [4]
- *Life* [8]
- *Journal of Clinical Medicine (JCM)* [2]
- *Diagnostics* (MDPI) [3]
- *Medicina* [2]
- *Molecules* [2]
- *Nutrients* [1]
- Other international medical journals in the field of Cardiology and Pathophysiology.

Core Responsibilities and Academic Contributions:

- **Conducting rigorous scientific appraisals** of original research manuscripts, clinical trials, and comprehensive systematic reviews prior to publication.
- **Evaluating methodological validity**, statistical accuracy, ethical compliance, and clinical relevance of submitted research in acute cardiology, atherosclerosis, and metabolic diseases.
- **Providing constructive, high-level feedback** and recommendations to international authors and editorial boards to maintain high-impact journal standards.

PROJECTS

Interdisciplinary Research and Innovation Using Sustainable Technologies – CIIUTS
(Original title in Romanian: Cercetare și inovare interdisciplinară utilizând tehnologii sustenabile – CIIUTS)

[05/2024 – 09/2024]

Project Code: CNFIS-FDI-2024-F-0334

Funding Body: CNFIS – Institutional Development Fund (National Council for Higher Education Funding / *Consiliul Național pentru Finanțarea Învățământului Superior – Fondul de Dezvoltare Instituțională*)

Role / Description: Key Research Team Member / I have contributed as a medical investigator to the interdisciplinary research activities, focusing on integrating sustainable technologies within clinical/medical frameworks.

[2013 – 2019] **The RO-TEP Study: Romanian Registry of Pulmonary Embolism (Original title in Romanian: Studiul RO-TEP: Registrul Român de Trombembolism Pulmonar)**

Funding Body / Coordinator: Romanian Society of Cardiology (SRC) / National Cardiovascular Research Framework

Role / Description: Key Research Team Member / Co-investigator responsible for clinical data collection, patient enrollment, follow-up, and monitoring of pulmonary embolism cases within the county emergency hospital hub, contributing to the national multicenter registry database.

[2010 – 2015] **ISACS-TC: International Survey of Acute Coronary Syndromes in Transitional Countries (Original title in Romanian: Studiul internațional ISACS-TC: Registrul internațional al sindroamelor coronariene acute în țările în tranziție)**

Project Code / Reference: ClinicalTrials.gov Identifier: [NCT01218776](https://clinicaltrials.gov/ct2/show/study/NCT01218776)

Principal Investigator / Coordinator: Prof. Raffaele Bugiardini, MD (University of Bologna, Italy)

Role / Description: Clinical Research Team Member/ Acted as the local investigator for the hospital center, overseeing multicenter prospective data collection, clinical documentation, and 30-day/1-year patient follow-up for ST-segment elevation myocardial infarction (STEMI) and non-STEMI cases. Contributed hospital-level cohorts to the [ISACS Archives](#) network to support international collaborative studies on acute cardiovascular care guidelines and clinical outcomes.

[2007 – 2013] **CEVIVA: Euroregional Centre for Invasive Cardiovascular Interventions "Viva Anima" (Original title in Romanian: Centrul Euroregional de Intervenții Cardiovasculare Invazive "Viva Anima")**

Project Code: HURO/0802/129_AF

Funding Programme: Hungary–Romania Cross-Border Co-operation Programme (2007–2013)

Funding Body: European Regional Development Fund (ERDF) / European Union

Role / Description: Key Research Team Member / Active member of the medical research team involved in setting up the cross-border center infrastructure. Contributed to clinical research protocol design, data sharing frameworks between Romanian and Hungarian cardiology hubs, and regional strategy development for emergency invasive cardiovascular interventions.

[12/2009 – 12/2009] **European Heart Survey 2009 Snapshot: Regional Variations in Presentation and Management of Patients with Acute Myocardial Infarction (AMI) in 47 Countries (Original title in Romanian: Studiul European Heart Survey 2009 Snapshot: Variații regionale în prezentarea și managementul pacienților cu infarct miocardic acut în 47 de țări)**

Time Period: December 2009

National Coordinator (Romania): Dr. Gabriel Tatu-Chițoiu, MD (Romanian Society of Cardiology)

Funding Body / Initiator: European Society of Cardiology

Role / Description: Institutional Investigator/ Served as a clinical investigator at the hospital center level, participating in the rigorous "snapshot" data collection, documentation, and reporting of clinical presentation and management pathways for acute myocardial infarction cases, aligned with European registries.

[2012 – 2013] **The IMA-RO Study: National Registry of Acute Myocardial Infarction STEMI and Non-STEMI (Original title in Romanian: Studiul IMA-RO: Registrul Național de Infarct Miocardic Acut STEMI și Non-STEMI)**

Funding Body : Romanian Society of Cardiology (SRC)

Role / Description: Clinical Investigator/ Served as a clinical co-investigator responsible for the comprehensive documentation, patient enrollment, and multi-parameter data collection of both ST-segment elevation and non-ST-segment elevation acute myocardial infarction cases at the institutional level, contributing directly to the national multicenter epidemiological database.

[2009 – 2011] **Evaluation of Subclinical Atherosclerosis Markers in Young Adults with Cardiovascular Risk Factors. Development of an Optimal Strategy for Cardiovascular Disease Prevention (Original title in Romanian: Evaluarea markerilor de ateroscleroză subclinică la tineri cu factori de risc cardiovascular. Dezvoltarea unei strategii optime de prevenție a bolilor cardiovasculare)**

Project Code / Contract: PN-II-ID-PCE, CNCSIS Code: 1593 (Contract No. 1209/2009)

Funding Body / Funding Agency: CNCSIS – National Council for Scientific Research in Higher Education / UEFISCDI (*Consiliul Național al Cercetării Științifice din Învățământul Superior*)

Total Budget: 1,000,000 RON

Role / Description: Research Team Member / Served as a clinical investigator within a highly competitive national exploratory research grant. Responsibilities included screening young high-risk cohorts, evaluating subclinical imaging and biochemical markers of atherosclerosis, and collaborating on data analysis to model optimal primary prevention strategies for cardiovascular diseases.

INVITED SPEAKER

Invited Lecture: “The Hypertensive Patient: From Cardiovascular Risk to Treatment” (Original title: Pacientul hipertensiv: de la riscul cardiovascular la tratament)

Event: Family Medicine Conference (16 CME credits)

Organizer / Location: Bihor Association of Family Physicians, Oradea, Romania | May 2026

Invited Lecture: “Hypertension: From Major Risk Factor to Recommended Therapeutic Target” (Original title: Hipertensiunea: de la factor de risc major la ținta terapeutică recomandată)

Event: Medic.ro Conference (12 CME credits)

Organizer / Location: National Society of Family Medicine, Oradea, Romania | April 2026

Invited Lecture: "Targeted Therapy in Arterial Hypertension: The Role of the New Generation of Aldosterone Synthase Inhibitors" (Original title: Terapia țintită în hipertensiunea arterială: rolul noii generații de inhibitori de aldosteron-sintetază)

Event: ATENA Course – Practical Approach in Assessing and Normalizing Blood Pressure in Hypertensive Patients (6 CME credits)

Organizer / Location: Romanian Society of Cardiology, Romanian Society of Hypertension, and University of Oradea (Faculty of Medicine and Pharmacy), Oradea, Romania | March 2026

Clinical Case Presentation: "When Time Matters" (Original title: Când timpul contează)

Event: Acute Coronary Syndrome: From Guidelines to Clinical Practice (6 CME credits)

Organizer / Location: Romanian Society of Cardiology and "Carol Davila" University of Medicine and Pharmacy (UMFCD), Oradea, Romania | October 2024

Clinical Case Presentation: "A 'Routine' Case of Inferior STEMI" (Original title: Un caz 'banal' de STEMI inferior)

Event: Updates in Myocardial Revascularization (6 CME credits)

Organizer / Location: Romanian Society of Cardiology and "Carol Davila" University of Medicine and Pharmacy (UMFCD), Bucharest, Romania | October 2024

Clinical Case Presentation: "A Complicated STEMI Case: Challenges in Management and Outcomes"

Event: National Congress of the Romanian Society of Pathophysiology

Organizer / Location: Romanian Society of Pathophysiology and "Victor Babeș" University of Medicine and Pharmacy, Timișoara, Romania | October 2024

Invited Lecture: "Cardiovascular Emergencies in Pregnancy from a Pathophysiological Perspective" (Original title: Urgențele cardiovasculare în sarcină, din perspectivă fiziopatologică)

Event: Cardiovascular Emergencies in Pregnant Women (5 CME credits)

Organizer / Location: "Grigore T. Popa" University of Medicine and Pharmacy Iași and Romanian Society of Cardiology, Online | March 2021

Invited Lecture: "Physiological ECG Features in CSM Oradea Basketball Players" (Original title: Aspecte ECG fiziologice la baschetbaliștii CSM Oradea)

Event: Heart and Sports Course (6 CME credits)

Organizer / Location: Romanian Society of Cardiology, Timișoara, Romania | October 2016

Invited Lecture: "Hemostasis: From Normal to Pathological" (Original title: Hemostaza de la normal la patologic)

Event: CARDIOCOAG Course (6 CME credits)

Organizer / Location: Romanian Society of Cardiology, Oradea, Romania | March 2016

Clinical Case Presentation: "Hypertension in Adolescents" (Original title: Hipertensiunea la adolescent)

Event: Difficult Clinical Cases in Emergency Cardiology (5 CME credits)

Organizer / Location: Romanian Society of Cardiology, Oradea, Romania | March 2014

Clinical Case Presentation: “Bradycardia with an Unexpected Outcome” (Original title: Bradicardie cu final neașteptat)

Event: ARCA 3 – Current Updates in Arrhythmology (6 CME credits)

Organizer / Location: Romanian Society of Cardiology, Oradea, Romania | April 2012

MEMBERSHIPS

Romanian Society of Cardiology (SRC) / Societatea Română de Cardiologie

SRC Working Group on Acute Cardiac Care / Grupul de Lucru de Cardiologie de Urgență al SRC

SRC Working Group on Ischemic Heart Disease / Grupul de Lucru de Cardiopatie Ischemică al SRC

European Society of Cardiology (ESC) / Societatea Europeană de Cardiologie

Romanian Society of Pathophysiology / Societatea Română de Fiziopatologie

Bihor College of Physicians / Colegiul Medicilor Bihor

MANAGEMENT AND LEADERSHIP SKILLS

Management skills

Institutional Governance: Serving as the President of the Ethics Commission at Oradea County Clinical Emergency Hospital (SCJU Oradea) since 2016, managing and leading a specialized team of 6 members.

Clinical and Emergency Coordination: Strong organizational leadership in coordinating specialized medical teams, including nurses, resident doctors, medical students, and dedicated cardiology on-call shifts.

Research Team Management: Serving as a scientific researcher with a proven track record of structuring, coordinating, and optimizing research team workflows to maximize collective efficiency.

Academic Project Supervision: Directing, organizing, and guiding medical students through their scientific research for undergraduate/bachelor's theses, as well as coordinating resident research initiatives.

Academic Administration: Actively participating as a trusted member of institutional employment/contest boards and contributing to the organization of national or international scientific events.

COMMUNICATION AND INTERPERSONAL SKILLS

Social skills

Intercultural Dialogue and Mediation: Advanced mediation skills with a demonstrated capacity for intercultural communication, gained through teaching and mentoring international students and residents from English-taught departments (including Sweden, Germany, Canada, Mauritius, etc.).

Compassionate and Supportive Leadership: Cultivating a creative, supportive, and compassionate environment tailored to the unique needs of patients, medical colleagues, and students.

Collaboration and Team Spirit: Deep commitment to team teaching and collaborative research activities, combined with a strong ability to assume decisive leadership when critical situations demand it.

Adaptability and Professional Growth: Exceptional adaptability and a firm dedication to continuous medical education (CME) and lifelong learning.

Technical skills

Medical Equipment Operation: Advanced knowledge of setting up continuous ambulatory ECG and BP monitoring devices (Holter ECG and BP). Sound technical proficiency in calibrating, adjusting, and troubleshooting critical care ward devices, including patient monitors, ultrasound systems, syringe pumps, and defibrillators.

Sports skills and abilities

Athletic Achievements: Proficient in alpine skiing and tennis, demonstrated through active participation in numerous advanced training programs and national-level sports competitions.

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

French

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

German

LISTENING A2 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

internet browsing | good use of comunication programs (Zoom, Skpe, e-mail) | Good use of Microsoft office | Good teamwork skills

DRIVING LICENCE

Cars: B

Oradea,
20.05.2026