



Paul-Adrian Călburean

Nationality: Romanian | **Gender:** Male |

Address: Târgu Mureș, Romania (Home)

WORK EXPERIENCE

01/01/2018 – CURRENT

CARDIOLOGY SPECIALTY TRAINING EMERGENCY INSTITUTE FOR CARDIOVASCULAR DISEASES AND TRANSPLANTATION OF TÂRGU MUREȘ, ROMANIA

01/10/2019 – CURRENT Târgu Mureș, Romania

ASSISTANT PROFESSOR GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE, AND TECHNOLOGY OF TÂRGU MUREȘ

Department of Biostatistics and Medical Informatics

01/03/2021 – 31/10/2021 Brussels, Belgium

RESEARCH FELLOW HEART RHYTHM MANAGEMENT CENTRE, UNIVERSITAIR ZIEKENHUIS BRUSSEL, BELGIUM

02/05/2019 – 28/06/2019 Brussels, Belgium

RESEARCH FELLOW HEART RHYTHM MANAGEMENT CENTRE, UNIVERSITAIR ZIEKENHUIS BRUSSEL, BELGIUM

EDUCATION AND TRAINING

01/10/2019 – 27/11/2022

DOCTORAL STUDIES George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș

Anul susținerii 2022, coordonator prof. dr. Klara Brînzaniuc, calificativ „excelent” – „summa cum laude”, confirmat prin ordinul MEN nr. 3773/03.03.2023

Thesis Evaluation of correlation between advanced electrocardiographic parameters of sudden cardiac death and complexity of coronary lesions

10/2018 – 09/2019

MASTER OF ADVANCED MEDICO-PHARMACEUTICAL SCIENTIFIC RESEARCH Doctoral School of University of Medicine and Pharmacy of Târgu Mureș

Thesis The impact of autonomic nervous system on atrial fibrillation recurrence after repeated transcatheter ablation procedure

30/06/2018 – 07/07/2018

YOUNG CARDIOLOGISTS' SUMMER SCHOOL Romanian Society of Cardiology

10/2011 – 09/2017

MEDICAL DOCTOR DEGREE Faculty of Medicine, University of Medicine and Pharmacy of Târgu Mureș

Thesis The impact of beta-blocker treatment on risk of sudden cardiac death in acute phase of ST-elevated myocardial infarction

11/07/2016 – 16/07/2016

SUMMER CARDIOLOGY SCHOOL "THE HEART - FROM FUNCTION TO DYSFUNCTION"

University of Medicine and Pharmacy Victor Babeş, Timișoara, Romania

2014 – 2016

UNDERGRADUATE TEACHING ASSISTANT Pharmacology Department, University of Medicine and Pharmacy of Târgu Mureș

01/07/2014 – 25/07/2014

HEMATOLOGY CLINICAL PRACTICE Ankara University, School of Medicine, Ankara, Turkey

LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

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

DIGITAL SKILLS

Matlab | Python | R

ADDITIONAL INFORMATION

SCIENTIFIC ACTIVITY

Scientific metrics

- Hirsch index - 5
- Cumulative Impact Factor as main author / Factor cumulativ de impact autor principal (FCIAP) - 18.11
- ISI citations - 56 / 45 (excluding self-citations)

Extensio ISI articles with impact factor / Articole publicate în reviste cotate ISI, cu factor de impact

1. **Calborean PA**, Pannone L, Sorgente A, Gauthey A, Monaco C, Strazdas A, Almorad A, Bisignani A, Bala G, Ramak R, Overeinder I, Stroker E, Pappaert G, Van Dooren S, de Ravel T, La Meir M, Brugada P, Sieira J, Chierchia GB, de Asmundis C. *Heart rate variability and microvolt T wave alternans changes during ajmaline test may predict prognosis in Brugada syndrome*. Clin Auton Res, 2023, 33(1):51–62, [doi:10.1007/s10286-023-00922-4](https://doi.org/10.1007/s10286-023-00922-4), ISSN 0959-9851, IF (2023): 5.625 (99.375 pct.).
2. **Calborean PA**, Grebenisan P, Nistor IA, Pal K, Vacariu V, Drincal RK, Tepes O, Barlea I, Sus I, Somkereki C, Simon V, Demjen Z, Adorjan I, Pinitilie I, Dolcos AT, Oltean T, Marusteri M, Druica E, Hadadi L. *Prediction of 3-year all-cause and cardiovascular cause mortality in a prospective percutaneous coronary intervention registry: Machine learning model outperforms conventional clinical risk scores*. Atherosclerosis, 2022, 350:33–40, [doi:10.1016/j.atherosclerosis.2022.03.028](https://doi.org/10.1016/j.atherosclerosis.2022.03.028), ISSN 0021-9150, IF (2022): 6.851 (117.765 pct.).
3. **Calborean PA**, Hadadi L, Rudzik R, Doboreanu D. *Coronary fibromuscular dysplasia with three-vessel involvement: a rare cause of ischaemic dilated cardiomyopathy in a very young male*. Cardiol Young 2022, 32(12):2009–2012, [doi:10.1017/S1047951122000865](https://doi.org/10.1017/S1047951122000865), ISSN 1047-9511, IF (2022): 1.023 (30.345 pct.).
4. Pannone L, Monaco C, Sorgente A, Vergara P, **Calborean PA**, Gauthey A, Bisignani A, Kazawa S, Strazdas A, Mojica J, Lipartiti F, Al Housari M, Miraglia V, Rizzi S, Sofianos D, Cecchini F, Osorio TG, Paparella G, Ramak R, Overeinder I, Bala G, Almorad A, Stroker E, Pappaert G, Sieira J, Brugada P, La Meir M, Chierchia GB, de Asmundis C. *High-density epicardial mapping in Brugada syndrome: Depolarization and repolarization abnormalities*. Heart Rhythm, 2022, 19(3):397–404, [doi:10.1016/j.hrthm.2021.09.032](https://doi.org/10.1016/j.hrthm.2021.09.032), ISSN 1547-5271, IF (2022): 6.779 (4.167 pct.).
5. Pannone L, Monaco C, Sorgente A, Vergara P, **Calborean PA**, Gauthey A, Bisignani A, Kazawa S, Strazdas A, Mojica J, Lipartiti F, Al Housari M, Miraglia V, Rizzi S, Sofianos D, Cecchini F, Osorio TG, Paparella G, Ramak R, Overeinder I, Bala G, Almorad A, Stroker E, Pappaert G, Sieira J, Brugada P, La Meir M, Chierchia GB, de Asmundis C. *Ajmaline-Induced Abnormalities in Brugada Syndrome: Evaluation With ECG Imaging*. J Am Heart Assoc, 2022, 11(2):e024001, [doi:10.1161/JAHA.121.024001](https://doi.org/10.1161/JAHA.121.024001), EISSN 2047-9980, IF (2022): 6.107 (3.807 pct.).

6. Pannone L, Monaco C, Sorgente A, Vergara P, Gauthey A, **Calburean PA**, Bisignani A, Paparella G, Ramak R, Overeinder I, Bala G, Almorad A, Stroker E, Pappaert G, Sieira J, Brugada P, Van Dooren S, de Ravel T, La Meir M, Chierchia GB, de Asmundis C. *SCN5A mutation in Brugada syndrome is associated with substrate severity detected by electrocardiographic imaging and high-density electroanatomic mapping*. Heart Rhythm, 2022, 19(6):945–51, [doi:10.1016/j.hrthm.2022.01.034](https://doi.org/10.1016/j.hrthm.2022.01.034), ISSN 1547-5271, IF (2022): 6.779 (5.834 pct.).
7. Monaco C, Galli A, Pannone L, Bisignani A, Miraglia V, Gauthey A, Al Housari M, Mojica J, Del Monte A, Lipartiti F, Rizzi S, Mouram S, **Calburean PA**, Ramak R, Pappaert G, Eltssov I, Bala G, Sorgente A, Overeinder I, Almorad A, Stroker E, Sieira J, Brugada P, Chierchia GB, La Meir M, de Asmundis C. *Hybrid-Approach Ablation in Drug-Refractory Arrhythmogenic Right Ventricular Cardiomyopathy*. Am J Cardiol, 2022, 181:45–54, [doi:10.1016/j.amjcard.2022.07.011](https://doi.org/10.1016/j.amjcard.2022.07.011), ISSN 0002-9149, IF (2022): 3.133 (2.48 pct.).
8. **Calburean PA**, Osorio TG, Sieira J, Stroker E, Maj R, Terasawa M, Rizzo A, Borio G, Scala O, Galli A, Brugada P, Chierchia GB, De Asmundis C. *High parasympathetic activity as reflected by deceleration capacity predicts atrial fibrillation recurrence after repeated catheter ablation procedure*. J Interv Card Electrophysiol, 2021, 60(1):21–9, [doi:10.1007/s10840-019-00687-9](https://doi.org/10.1007/s10840-019-00687-9), ISSN 1383-875X, IF (2021): 1.759 (41.385 pct.).
9. **Calburean PA**, Osorio TG, Sorgente A, Almorad A, Pannone L, Monaco C, Miraglia V, Al Housari M, Mojica J, Bala G, Bisignani A, Lipartiti F, Strazdas A, Ramak R, Overeinder I, La Meir M, Stroker E, Brugada P, Boveda S, Paparella G, Iacopino S, Sieira J, Chierchia GB, de Asmundis C. *High vagal tone predicts pulmonary vein reconnection after cryoballoon ablation for paroxysmal atrial fibrillation*. Pacing Clin Electrophysiol, 2021, 44(12):2075–83, [doi:10.1111/pace.14408](https://doi.org/10.1111/pace.14408), ISSN 0147-8389, IF (2021): 1.912 (43.68 pct.).
10. Overeinder I, Osorio TG, **Calburean PA**, Bisignani A, Bala G, Sieira J, Stroker E, Al Housari M, Mojica J, Boveda S, Paparella G, Brugada P, de Asmundis C, Chierchia GB. *Comparison between superior vena cava ablation in addition to pulmonary vein isolation and standard pulmonary vein isolation in patients with paroxysmal atrial fibrillation with the cryoballoon technique*. J Interv Card Electrophysiol, 2021, 62(3):579–86, [doi:10.1007/s10840-020-00932-6](https://doi.org/10.1007/s10840-020-00932-6), ISSN 1383-875X, IF (2021): 1.759 (3.183 pct.).
11. Iacopino S, Osorio TG, Filannino P, Artale P, Sieira J, Stroker E, Bala G, Overeinder I, Hacıoglu E, **Calburean PA**, Paparella G, Brugada P, de Asmundis C, Chierchia GB. *Safety and feasibility of electrical isolation of the superior vena cava in addition to pulmonary vein ablation for paroxysmal atrial fibrillation using the cryoballoon: lessons from a prospective study*. J Interv Card Electrophysiol, 2021, 60(2):255–60, [doi:10.1007/s10840-020-00740-y](https://doi.org/10.1007/s10840-020-00740-y), ISSN 1383-875X, IF (2021): 1.759 (3.183 pct.).
12. Stroe VI, **Calburean PA**, Lates GA, Al-Akel CF, Ghiragosian C, Pop A, Suciu H, Horvath E. *Cardiac mesenchymal hamartoma associated with transposition of the great arteries in a neonate*. Rev Romana Med Lab, 2019, 27 (1):85–88, [doi:10.2478/rrlm-2019-0005](https://doi.org/10.2478/rrlm-2019-0005), ISSN 1841-6624, IF (2019): 0.945 (29.175 pct.), autor corespondent.

Extenso ISI articles without impact factor / Articole publicate în reviste cotate ISI, fără factor de impact

1. Bisignani A, Pannone L, Bala G, Kazawa S, **Calburean P**, Overeinder I, Monaco C, Lipartiti F, Miraglia V, Rizzi S, Al Housari M, Mojica J, Strazdas A, Osorio TG, Sieira J, Iacopino S, Almorad A, Stroker E, Sorgente A, Brugada P, de Asmundis C, Chierchia GB. *Repeat procedures for recurrent persistent atrial fibrillation: A propensity-matched score comparison between left atrial linear ablation with radiofrequency and posterior wall isolation with the cryoballoon*. J Arrhythmia, 2021, 37(5):1287–94, [doi:10.1002/joa3.12614](https://doi.org/10.1002/joa3.12614), ISSN 1880-4276.

Extenso IDB articles / Articole publicate în reviste indexate BDI

1. Osorio TG, Chierchia GB, Maj R, Coutino HE, Stroker E, Sieira J, Salghetti F, Terasawa M, **Călburean PA**, Rizzo A. *Standardized Quantification of Vagal Denervation by Extracardiac Vagal Stimulation During Second Generation Cryoballoon Ablation: A Vein per Vein Analysis*. J Atr Fibrillation, 2019, 12(3):1-6, ISSN 1941-6911.
2. Hadadi, László, **Călburean PA**, et al. *Mortality predictors after percutaneous coronary intervention-a prospective single-center registry study*. Romanian Journal of Cardiology, 2020, 30(3):413-422, ISSN 1220-658X.
3. Stroe VI, **Călburean Pa**, et al. *Delayed Sternum Closure After Arterial Switch Procedure*. Acta Medica Transilvanica, 2018, 23(4):38-40, ISSN 2285-7079.
4. Goia C, **Călburean PA**, et al. *Fighting For Life-Complicated Outcome After Arterial Switch Operation*. Acta Medica Transilvanica, 2018, 23(4):41-43, ISSN 2285-7079, autor corespondent.

Abstracts / Abstracte de la ultima promovare

1. **Călburean PA**, Grebenișan P, Vacariu V, Drincal R-K, Țepes O, Grancea I, Șuș I, Somkereki C, Simon V, Demjén Z, Adorján I, Pinitilie I, Dolcoș A T, Oltean T, Hadadi L. *Modelul de învățare automată depășește scorurile clinice convenționale în predicția mortalității la 5 ani de orice cauză și de cauză cardiovasculară într-un registru prospectiv de intervenții coronariene percutane*. Romanian Journal of Cardiology, 2022, 31(Suppl. S1), The 61th National Congress of Cardiology, September 14-16 2022, Sinaia, ISSN 2734 – 6439.

2. **Călborean PA**, Grebenișan P, Vacariu V, Drincal R-K, Țepes O, Grancea I, Șuș I, Somkereki C, Simon V, Demjén Z, Adorján I, Pinitilie I, Dolcoș A T, Oltean T, Hadadi L, Mărușteri M. *Prediction of 3-Year All-Cause Death in a Percutaneous Coronary Intervention Registry Using Machine Learning: A Comparison Between Random Forest and CatBoost Algorithms*. Appl Med Inform, 2021, 43 (Suppl. S1):21–21, RoMedINF 2021 - Digital Technology and Healthcare, September 16-17 2021, Cluj-Napoca, ISSN 1224-5593.
3. **Calborean P**, Pannone L, Osorio T. G, Almorad A, Bala G, Sorgente A, Chierchia GB, De Asmundis C. *High Parasympathetic Tone Predicts Pulmonary Vein Reconnection after Cryoballoon Ablation for Paroxysmal Atrial Fibrillation*. Acta Cardiol, 2021, 76(Suppl 2):9, Belgian Heart Rhythm Meeting 2021: Book of Abstracts, 21-22 October 2021, Brussels, ISSN: 0001-5385 (indexat ISI).
4. **Călborean PA**, Florea M, Hadadi L. *Infarct miocardic acut cu supradenivelare de segment ST, după hemostază endoscopică și transfuzie sanguină pentru hemoragie masivă la un pacient cu cancer gastric*. Romanian Journal of Cardiology, 2020, 30(Suppl. S1):58-59, The 59th National Congress of Cardiology, September 16-19 2020, Sinaia, ISSN 2734 – 6439.
5. **Călborean PA**, Osorio TG, Chierchia GB, de Asmundis C. *Tonusul parasimpatic crescut se asociază cu reconectarea venelor pulmonare documentată la ablații transcateter repetate pentru recurența fibrilației atriale*. Romanian Journal of Cardiology, 2020, 30(Suppl. S1):87-89, The 59th National Congress of Cardiology, September 16-19 2020, Sinaia, ISSN 2734 – 6439.

Books published

Călborean Paul-Adrian. Corelații între riscul de moarte subită cardiacă și complexitatea bolii coronariene. Editura University Press, Tîrgu-Mureș, 2023, 198 pg, ISBN 978-973-169-774-1, cod CNCIS 210.

Prizes for scientific activities

1. "Premierea excelenței în cercetare" a Societății Române de Cardiologie, secțiunea "Articole cotate ISI" pentru articolul cu titlul "Prediction of 3-year all-cause and cardiovascular cause mortality in a prospective percutaneous coronary intervention registry: Machine learning model outperforms conventional clinical risk scores".
2. Premiul I în cadrul sesiunii "Cele mai bune lucrări ale cardiologilor tineri" pentru lucrarea "Tonusul parasimpatic crescut se asociază cu reconectarea venelor pulmonare documentată la ablații transcateter repetate pentru recurența fibrilației atriale", Congresul Național de Cardiologie 16-19 Septembrie 2020.
3. Premiul MONICA MĂRĂȘOIU pentru cea mai bună lucrare prezentată de un tânăr cercetător în Informatică Medicală pentru lucrarea „Prediction of 3-Year All-Cause Death in a Percutaneous Coronary Intervention Registry using Machine Learning: A Comparison Between Random Forest and CatBoost Algorithms”, RoMedINF 2021 - Digital Technology and Healthcare conference 16-17 Septembrie 2021, Cluj-Napoca.
4. Premiul ROMEDINF pentru cea mai bună lucrare ce contribuie la dezvoltarea Informaticii Medicale pentru lucrarea „Implementation of deceleration capacity measurement algorithm in MatLab”, RoMedINF 2019 - Digital Technology and Healthcare conference 19-20 Septembrie 2019, Cluj-Napoca.

OTHER / INFORMAȚII SUPLIMENTARE

Other / Informații suplimentare

- Recenzor pentru reviste ISI (de la ultima promovare):
 - European Heart Journal
 - Frontiers in Cardiovascular Medicine
 - Journal of Interventional Cardiac Electrophysiology
- Activități de predare în Campusul Hamburg al UMFST în perioadele:
 - 16.01.2022 - 29.01.2022
 - 28.11.2022 - 18.12.2022
 - 30.11.2020 - 31.01.2021
- Proiect de cercetare în calitate de director de proiect obținut în urma competiției interne din 2022 organizată de UMFST "George Emil Palade" din Târgu Mureș, proiectului cu titlul: „Studiul corelației dintre presiunea invazivă telediastolică a ventriculului stâng și biomarkeri serici – NT-proBNP, sST2 și galectin-3”, nr. 164/9/10.01.2023, perioada de derulare 10.01.2022-10.01.2023, valoarea totală a proiectului de 24.627 lei.
- Numeroase lucrări de licență îndrumate (5 de la ultima promovare).
- Cursuri postuniversitare absolvite:

- "Noi tehnici de predare și evaluare în disciplinele medico-farmaceutice", seria V, octombrie 2021 - februarie 2022, Centrul De Pregătire Psihopedagogică Medico-Farmaceutică al UMFST Târgu Mureș.
 - Program de formare psihopedagogică, nivel I (absolvit) și nivel II (în curs), Departamentul pentru pregătirea personalului didactic al UMFST Târgu Mureș.
 - Conferințe invitate la manifestări științifice naționale – de la ultima promovare
 - Cardiologia – O privire dincolo de ghidurile de practică clinică, 11 noiembrie 2022, Târgu Mureș, organizată de Societatea Română de Cardiologie.
 - Participare la examenul de rezidențiat din 2021 și 2022 în calitate de corector lucrări.
 - Certificat PROFEX C1.
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