

Lista de lucrări

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1. Nicoleta-Monica Popa-Fotea, Miruna Mihaela Micheu, Cosmin Mihai, Ruxandra State, Radu Tincu, **Alexandru Scafa-Udriste**. Takotsubo Cardiomyopathy and β -Blocker Poisoning: A Case Report; *Medicina* 2022, 58(12), 1777; <https://doi.org/10.3390/medicina58121777> (IF 2.948)

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3. Vlad Ploșcaru, Nicoleta-Monica Popa-Fotea, Lucian Calmac, Lucian Mihai Itu, Cosmin Mihai, Vlad Bataila, Bogdan Dragoescu, Andrei Puiu, Cosmin Cojocaru, Minoiu Aurelian Costin, **Alexandru Scafa-Udriste**. Artificial intelligence and cloud based platform for fully automated PCI guidance from coronary angiography-study protocol; *PLoS ONE* 17(9): e0274296. <https://doi.org/10.1371/journal.pone.0274296> September 9, 2022 (IF 3.752)

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6. Horaşiu Moldovan, Iulian Antoniac, Daniela Gheorghişă, Maria Sabina Safta, Silvia Preda, Marian Broască, Elisabeta Badilă, Oana Fronea, **Alexandru Scafa-Udrişte**, Mihai Cacoveanu, Adrian Molnar, Victor Sebastian Costache, Ondin Zaharia. Biomaterials as Haemostatic Agents in Cardiovascular Surgery: Review of Current Situation and Future Trends; *Polymers* **2022**, *14*(6), 1189; <https://doi.org/10.3390/polym14061189> (IF 4.967)

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2. Lucian Calmac, Ruxandra-Nicoleta Horodinschi, Diana Stanciulescu, **Alexandru Scafa-Udriste**. Malignant Arrhythmia in Acute Conus Artery Occlusion; *Journal of Clinical Case Studies Reviews & Reports. SRC/JCCSR*-113. DOI: [doi.org/10.47363/JCCSR/2021\(3\)169](https://doi.org/10.47363/JCCSR/2021(3)169) (IF)

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1. Luminita Iliuta, Andreea Gabriella Andronesi, Eugenia Panaitescu, Madalina Elena Rac-Albu, **Alexandru Scafa-Udriște**, Horațiu Moldovan. Challenges for Management of Dilated Cardiomyopathy during COVID-19 Pandemic-A Telemedicine Application; *J. Clin. Med.* 2022, 11(24), 7411; <https://doi.org/10.3390/jcm11247411> (IF 4.964)

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Participare la studii clinice multinaționale – 2

SOLID TIMI 52 (The Stabilisation of plaques using darapladib – Thrombolysis in Myocardial Infarction 52 Trial – Prof. E. Braunwald)

ODYSEY (Evaluation of Cardiovascular Outcomes after an Acute Coronary Syndrome during Treatment with SAR236553- Prof. G. Steg)

Coordonare teze de licență studenți (2014-2022) - 11

Dr. Mocanu Razvan, Dr. Madalina Preda, Dr. Camelia Acatrinei, Dr. Alexandra Galer , Dr. Vladimir Florescu, Dr. Diana Stanciulescu, Dr. Radu Adrian Popescu, Dr. Ciobanu Denisa, Dr. Ciuca Alexandra , Dr. Iacob Andrei Mihai, Dr. Cotea Andrei Antoniu.

Realizarea de Brevete/Patente - 1

Application No /Patent No.20020498.0 - 1115

Title - Method and apparatus for the electronic monitoring of life-threatening conditions

Applicant/Proprietor - Cherry Biotech SAS

Proiecte de cercetare câștigate prin concurs (14)

- 7 - în calitate de director de proiect,
- 2 - în calitate de responsabil partener proiect,
- 5 - în calitate de membru al echipei de cercetare.

Director proiect :

1. Proiect de cercetare (tip resurse umane) **pentru tinerii doctoranzi contract – COD CSCSIS 191/2008 – finalizat**
2. Proiectul **„Excelență în cercetarea științifică, interdisciplinară, doctorală și postdoctorală, în domeniile Economic, Social și Medical – EXCELIS”**, POSDRU/159/1.5/S/138907”, (2014-2015) proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial Dezvoltarea Resurselor Umane – finalizat
3. Proiect – **„Evaluarea funcțională a leziunilor coronariene arteriale complexe folosind tomografie de coerență optică și angiografie de rutină”** (Image-based functional assessment of complex coronary artery lesions using optical coherence tomography and routine angiography) - FUNCTIONAL-OCT

Cod proiect PN-III-P2-2.1-PED-2016-0233. Nr contractului 138PED - finalizat Domeniu - Sănătate (inclusiv știința medicamentului)

Data începerii contractului 03/01/2017 Data încheierii contractului 30/06/2018

Durata proiectului 18 luni Valoarea totală a Contractului 899.064,00 RON

Numărul instituțiilor implicate (2)

1. SPITALUL CLINIC DE URGENTA

2. SIEMENS SRL

Pagina web a proiectului <http://functionaloct.bdo.hcvpc.io/index.html>

4. Proiect – **„Evaluarea bazată pe inteligența artificială a anatomiei coronariene și a evoluției leziunilor coronariene folosind angiografia de rutină”** (Artificial Intelligence based Coronary Anatomy assessment and coronary lesion evolution PREDICTION from routine angiography exams) - AI-CAD-PREDICT

Cod proiect PN-III-P2-2.1-PED-2019-2434 Nr contractului 560PED - finalizat Domeniu - Sănătate (inclusiv știința medicamentului)

Data începerii contractului 01/11/2020 Data încheierii contractului 31/10/2022

Durata proiectului 24 luni Valoarea totală a Contractului 887.500,00 RON

Numărul instituțiilor implicate (2)

1. SPITALUL CLINIC DE URGENTA
2. SIEMENS SRL

Pagina web a proiectului <https://simcor.unitbv.ro/projects/AICADPREDICT/>

5. Proiect – „**Sistem de suport in cloud de decizie clinica pentru imbunatatirea evolutiei leziunilor ateroclerotice in sindroamele coronariene acute**” (Holistic cloud-based clinical decision support system for improving THE outcome of coRONary atheroSCLerotic LESions after acute coRONary SYndromS) - ATHEROSCLEROSYS

Cod proiect EEA-RO-NO-2018-0421 Nr contractului 33 – în desfășurare Domeniu - Technologies and applications of Big Data and/or Internet of things (IoT) for public administration, education, agriculture, health, banking etc.

Data începerii contractului 01/01/2021 Data încheierii contractului 31/12/2023

Durata proiectului 36 luni Valoare totală proiect 7.043.687,37 RON

Numărul instituțiilor implicate (3)

1. UNIVERSITATEA DE MEDICINA SI FARMACIE "CAROL DAVILA"
2. SIEMENS SRL
3. NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU (NTNU)

Pagina web a proiectului <https://atherosclerosis.wvf.ro/>

6. Proiect „**Creșterea capacității de intervenție rapidă a Spitalul Clinic de Urgență București în contextul pandemiei Covid-19 (CC_IR)**”, cod MySmis 140091 – în desfășurare

Sursa de finanțare - Programul Operațional Infrastructură Mare 2014-2020, Axa Prioritară 9 Protejarea sănătății populației în contextul pandemiei cauzate de COVID-19, OS 9.1 Creșterea capacității de gestionare a crizei sanitare COVID-19.

Numărul instituțiilor implicate (1)

SPITALUL CLINIC DE URGENȚĂ BUCUEȘTI

Perioada de implementare a proiectului este de 15 luni.

Valoarea totală a proiectului este de 42.691.082,99 lei

7. Proiect „**Intelligent Monitoring of Heart Failure Improving Disease Management (My AI Heart)**” din apelul “Alliance for Life Sciences: Closing Research and Innovation Divide in the European Union” - European Union’s Horizon 2020 Research and innovation programme under grant agreement No. 779303. – în desfășurare

Numărul instituțiilor implicate (3)

Coordonator UMFCF – Carol Davila University of Medicine and Pharmacy, Romania

Partener 1 - UZSM – University of Zagreb – Medical School, Croatia

Partener 2 - MUS – Medical University Sofia, Bulgaria

Perioada de implementare a proiectului este de 12 luni.

Valoarea totală a proiectului este de 15.000. euro

Responsabil Partener echipa cercetare :

1. Proiect - „A European Health Data Toolbox for Enhancing Cardiology Data Interoperability, Reusability and Privacy”.

Cod proiect - DataTools4Heart (DT4H) din cadrul apelului european HORIZON-HLTH-2021-TOOL-06 - în desfășurare Numărul instituțiilor implicate (15) Coordonator - University of Barcelona

Partener 1 University Medical Centre Utrecht

Partener 2 Fondazione Policlinico A. Gemelli IRCCS

Partener 3 St. Anne's University Hospital Brno

Partener 4 University College London Hospital

Partener 5 Vall d'Hebron Hospital Research Institute

Partener 6 Karolinska University Hospital

Partener 7 **Bucharest Emergency Clinical Hospital**

Partener 8 Lynkeus Srl.

Partener 9 Barcelona Supercomputing Centre

Partener 10 Software Research & Development Corporation

Partener 11 Athena Research Centre

Partener 12 Panetta Studio Legale, Translated Srl.

Partener 13 Siemens Healthcare

Partener 14 **European Society of Cardiology**

Valoarea proiectului este de 7,7 milioane de EURO

Perioada de implementare a proiectului este de 48 luni

2. Proiect : „**Pacientul virtual – Sistem de învățare bazat pe inteligență artificială pentru instruire în diagnosticarea și tratamentul bolilor cardiovasculare**”.

Cod proiect PN-III-P2-2.1-PED- 2021-2511 – în desfășurare

Numărul instituțiilor implicate (2)

Coordonator - Universitatea Politehnica din București

Partener - **Universitatea de Medicină și Farmacie Carol Davila București**

Perioada de implementare a proiectului este de 24 luni

Valoarea proiectului - 600.000 RON

<http://aimas.cs.pub.ro/virtual-patient/>.

Membru in echipa de cercetare in proiectele :

1. Proiect „**Terapia cu celule stem pentru regenerarea si reconstructia vasculara ANGIOSTEM**” (2005-2008). Proiect de excelenta derulat prin VIASAN - Director de proiect Prof. Dr. Maria Dorobantu – finalizat

2. Proiect „**Prognostic value of BNP correlated with echocardiographical indices of systolic and diastolic function in patients with st elevation acute myocardial infarction with indication of reperfusion**” (2005- 2009) - CNCIS 22 – Director de proiect Prof. Dr. Maria Dorobantu (UMF Carol Davila, Bucuresti) – finalizat

3. Proiect – „**Demonstrarea siguranței si eficienței pe termen scurt-mediu a terapiei cu celule stem medulare autologe la pacienții cu insuficiență cardiacă ischemică cronică severă SAFE-HF**”

Cod proiect: PN-III-P2-2.1-PED-2016-1333 cod proiect: 242PED/2017 - finalizat

Programul 2 - Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare. Subprogramul 2.1 - Competitivitate prin cercetare, dezvoltare și inovare

Beneficiar: Spitalul Clinic de Urgenta Bucuresti

Data inceperii: 01.09.2017 Data finalizarii: 20.12.2018

4. Proiect „**I-Bracelet - Intelligent bracelet for blood pressure monitoring and detection of preeclampsia**”

Tip proiect: Eurostars, 2017-2020, PN III - Cooperare Europeana si Internationala, Nr.

Inregistrare UEFISCDI PN3-P3-382/20.07.2017 – finalizat EUROSTARS-E!10871-i-bracelet, 2017-2020.

Partener din România: SC Info World SRL; Universitatea Politehnica Bucuresti (UPB), INCD pentru Microtehnologie (IMT Bucuresti)

Parteneri europeni: Cherry Biotech, IMM Fanta, Elvesys, IMM Franta

Project website: <http://i-bracelet.eu/en/home-page>, Intelligent bracelet for blood pressure monitoring and detection of preeclampsia

Buget proiect: 3.514.067.00 RON

5. Proiect : "**Atrial fibrillation integrated approach in frail, multimorbid, and polymedicated older people**"

Cod proiect : AFFIRMO-H2020-SC1-2020-Two-Stage-RTD – în desfășurare

Proiect 899871

Partener – Universitatea de Medicina și Farmacie Carol Davila București

Conf. Dr. Alexandru Scafa-Udriște

Iunie 2023

Potofoliu de lucrări științifice

Lista 10 publicații/brevete/lucrări considerate cele mai relevante pentru realizările profesionale:

1. **Alexandru Scafa Udriste**, Adelina-Gabriela Niculescu, Alexandru Mihai Grumezescu and Elisabeta Bădilă Cardiovascular Stents: A Review of Past, Current, and Emerging Devices. Materials 2021, 14, 2498. <https://doi.org/10.3390/ma14102498> (IF 3.748)

<https://europepmc.org/article/pmc/pmc8151529>

2. Nicoleta-Monica Popa-Fotea, Lucian Calmac, Miruna-Mihaela Micheu, Mihai Cosmin, Alina Scarlatescu, Diana Zamfir, Lucian Mihai Itu, Irina Andra Tache, Diana Stoian, Cosmin-Andrei Hatfaludi, Fredrik Eikeland Fossan, Leif Rune Hellevik, Emma Weiss, **Alexandru Scafa-Udriste**. A cloud-based platform for clinical decision support in acute coronary syndrome patients: Study methodology; Kardiologia Polska (Polish Heart Journal) Vol 80, No 5 (2022) - 89164 HTMLDOI: 10.33963/KP.a2022.0076 (IF 3.710)

https://journals.viamedica.pl/kardiologia_polska/article/view/KP.a2022.0076/66999

3. Vlad Ploscaru, Nicoleta-Monica Popa-Fotea, Lucian Calmac, Lucian Mihai Itu, Cosmin Mihai, Vlad Bataila, Bogdan Dragoescu, Andrei Puiu, Cosmin Cojocaru, Minoiu Aurelian Costin, **Alexandru Scafa-Udriste**. Artificial intelligence and cloud based platform for fully automated PCI guidance from coronary angiography-study **protocol**; PLoS ONE 17(9): e0274296. <https://doi.org/10.1371/journal.pone.0274296> September 9, 2022 (IF 3.752)

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0274296>

4. **Alexandru Scafa-Udriste**, Nicoleta-Monica Popa-Fotea, Lucian Calmac, Sebastian Onciul, Vlad Bataila, Cosmin Mihai, Vlad Ploscaru, Valentina Uscatescu, Georgiana Gherghe, Iulia Grigore, Maria Dorobanțu, Miruna Mihaela Micheu Anti-platelet treatment challenges in Glanzmann thrombasthenia-clinical practice when data lacks; Haemophilia 2022 Jul;28(4):e98-e100. doi: 10.1111/hae.14527. (IF 4.268)

<https://www.mdpi.com/2077-0383/11/11/3138>

5. Nicoleta-Monica Popa-Fotea, **Alexandru Scafa-Udriste**, Maria Dorobantu The Continuum of Invasive Techniques for the Assessment of Intermediate Coronary Lesions; *Diagnostics* 2022, 12(6), 1492; <https://doi.org/10.3390/diagnostics12061492> (IF 3.992)

<https://www.mdpi.com/2075-4418/12/6/1492>

6. Miruna Mihaela Micheu, Alina Ioana Scarlatescu, **Alexandru Scafa-Udriste**, Maria Dorobantu The winding road of cardiac regeneration—stem cell omics in the spotlight; *Cells* 2018, 7(12), 255; <https://doi.org/10.3390/cells7120255> (IF 7.666)

<https://www.mdpi.com/2073-4409/7/12/255>

7. Cosmin Tirdea, Sorin Hostiuc, Horatiu Moldovan, **Alexandru Scafa-Udriste**. Identification of Risk Genes Associated with Myocardial Infarction—Big Data Analysis and Literature Review; *Int. J. Mol. Sci.* 2022, 23(23), 15008; <https://doi.org/10.3390/ijms232315008> (IF 6.208)

<https://www.mdpi.com/1422-0067/23/23/15008>

8. **Alexandru Scafa Udriște**, Adelina-Gabriela Niculescu, Luminița Iliuță, Teodor Bajeu, Adriana Georgescu, Alexandru Mihai Grumezescu, Elisabeta Bădilă. Progress in Biomaterials for Cardiac Tissue Engineering and Regeneration. *Polymers* 2023, 15, 1177. (IF-4.967)

<https://doi.org/10.3390/polym15051177>.

9. Nicoleta-Monica Popa-Fotea, Iulia-Adelina Grigore, Lucian Calmac, Cosmin Mihai, Vlad Bataila, Vlad Ploscaru, Bogdan Dragoescu, Horatiu Moldovan, Stefan-Sebastian Busnatu, Eugenia Panaitescu, Luminita Iliuță, **Alexandru Scafa-Udrishte**. The Profile and All-Cause InHospital Mortality Dynamics of STSegment Elevation Myocardial Infarction Patients during the Two Years of the COVID-19 Pandemic. *J. Clin. Med.* 2023, 12, 1467 (IF4.964)

<https://doi.org/10.3390/jcm12041467>

10. **Patent** - Application No /Patent No.20020498.0 – 1115 Title - Method and apparatus for the electronic monitoring of life-threatening conditions. Applicant/Proprietor - Cherry Biotech SAS