Dissemination of results through publications
Project PCE 102/2022: https://bionanosurf.ugal.ro/

As a result of the special experimental results achieved by the group coordinated by professor phd. Lidia Benea within the research laboratory (research center) CC-ITES, within the PCE 102/2022 project, they were finalized and published with the full participation of the project, in the year 2023 **4 ISI articles** in journals from the ISI category Q1 and Q2 as follows:

Publications in ISI indexed journals (Clarivate Analytics)
Fully supported by research project BioNanoSurf, contract PCE 102/2023
https://bionanosurf.ugal.ro/

1. Benea, L.; Ravoiu, A.; Neaga, V.; Axente, E.R. **Using Applied Electrochemistry to Obtain Nanoporous TiO_2 Films on Ti6Al4V Implant Alloys and Their Preclinical In Vitro Characterization in Biological Solutions**. ***Coatings*** **2023**,*13*, 614.
https://doi.org/10.3390/coatings13030614
Cuartilă: Q2.
Factor de Impact (IF): 3.50.
WOS: 000958379500001
Participare proiect: 100%.

2. Benea, L.; Ravoiu Lupu, A.; Bounegru, I.; Vizureanu, P. **Effect of Functional Nanoporous TiO_2 Film Obtained on Ti6Al4V Implant Alloy to Improve Resistance in Biological Solution for Inflammatory Conditions**. ***Int. J. Mol. Sci.*** **2023**, *24*, 8529.
https://doi.org/10.3390/ijms24108529
Cuartilă (Quartile): Q1
Factor de Impact (IF): 6.208
WOS: 000998239300001
Participare proiect: 100%.

3. Benea, L.; Bounegru, I.; Forray, A.; Axente, E.R.; Buruiana, D.L. **Preclinical EIS Study of the Inflammatory Response Evolution of Pure Titanium Implant in Hank's Biological Solution**. ***Molecules*** **2023**, *28*, 4837.
https://doi.org/10.3390/molecules28124837
Cuartilă (Quartile): **Q2**
Factor de Impact (IF): 4.927
WOS: 001017380900001
Participare proiect: 100%.

4. Benea, L.; Bounegru, I.; Axente, E.R.; Buruiană, D. **Susceptibility of 316L Stainless Steel Structures to Corrosion Degradation in Salivary Solutions in the Presence of Lactic Acid**. ***J. Funct. Biomater.*** **2023**, *14*, 535.
https://doi.org/10.3390/jfb14110535 https://doi.org/10.3390/jfb14110535
Cuartilă (Quartile): Q2
Factor de Impact (IF): 4.901
Participare proiect: 100%.

Publications in database indexed journals BDI
Fully supported by research project BioNanoSurf, contract PCE 102/2023

1. Bogatu, Nicoleta, **Benea Lidia**. **"Relevanța Tribocoroziunii: O Scurtă Prezentare Generală a Degradării Complexe a Materialelor și Biomaterialelor în Medii Corozive sub Acţiunea unei Perturbări Mecanice**. **Buletinul AGIR**, ISSN 2247-3548; Vol. 27 Issue 4, p. 33-44. 12 pagini.
Disponibil online.
https://www.agir.ro/buletine/3270.pdf
https://www.buletinulagir.agir.ro/

DOCTORAL THESIS
completed in the project area in 2023:

Phd. Pharmacist Anca RĂVOIU.
Doctorat supervisior : Prof. phd. chem. Lidia BENEA
Thesis title: **Efectul modificării suprafeței aliajului Ti6Al4V asupra comportării în mediul biologic de implant în condiții inflamatorii**.

Project Manager
Prof. phd. Lidia Benea
-- // --