Competences (Research) Center: Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES).

Offer name:	In-vitro assessment of corrosion and bio-corrosion degradation resistance of biomaterials used in human implants and metal surfaces in medical devices		
Description	Consultancy, expertise, technical assistance and in-vitro assessment of corrosion resistance of biomaterials used in implants through various electrochemical methods such as Open Circuit Potential (OCP), Electrochemical Impedance Spectroscopy (EIS), Polarization Potential Dynamics (PD), Linear Polarization, Cyclic Voltammetry (CV), and Polarization Resistance. For the degradation by biocorrosion in solutions simulating fluids in the human body, various physiological specific compounds will be added. In Fig. 1 we can see the corrosion resistance evaluation of composite layer systems applied on implant materials. Fig. 2 shows the locations where metal implants are used. in Fig. 3 shows the effect of chlorine ions from biological fluids on metal implant materials.		
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	Fig. 1	Fig. 2	Fig. 3
Resposible	Prof. Univ. Dr. (Ph.D.) Chem. Lidia BENEA. Competences (Research) Center: Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES). Dunărea de Jos University of Galati.		
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