

Grado en Ingeniería Biomédica

Año Académico 2022/23)

Relación de estudiantes que han realizado el Trabajo Fin de Estudios (Año Académico 2022/23)				
TITULO	ESTUDIANTE	CALIFICACION	NOTA	TUTOR
"Comparative analysis of small extracellular vesicles isolation from different milk sources"	399585	SOBRESALIENTE	9,7	14473
3D design and validation of an anatomical support for an optoacoustic sensor	399601	SOBRESALIENTE	9,0	8509
A compartmental model to investigate intracranial pulsatility	403458	SOBRESALIENTE	9,4	4402
A problem arising from angiogenesis with chemotaxis and flux at the boundary of a tumour	580619	SOBRESALIENTE	10,0	6815
A real-time computer vision gait analysis system for robotic rehabilitation therapies	399631	SOBRESALIENTE	10,0	15160
Accuracy of patient-specific 3D-printed surgical guides for pedicle screw insertion.	580507	NOTABLE	8,9	6714
Advanced therapies for wound healing and infection treatment	580569	SOBRESALIENTE	10,0	19249
Analyses of H2O2 production in time during wound closure	580750	SOBRESALIENTE	10,0	18783
Analysis of histological substrate underlying functional changes induced by the administration of therapeutic extracellular vesicles embedded in cardiac extracellular matrix hydrogels in a porcine model of ischemic cardiomyopathy.	580499	SOBRESALIENTE	9,6	11579
Analysis of peroxiporin-mediated H2O2 fluxes	399579	NOTABLE	8,2	18783
Aplicación del IoT y Data Science para la mejora y potenciación del proceso de monitorización de los gases medicinales en los centros hospitalarios.	399605	SOBRESALIENTE	10,0	15160
Applications of the Opentron robot for aptamer selection	580586	SOBRESALIENTE	9,8	12452
Assessment of bioinformatic tools for genomic variant prioritization in a clinical context	584366	NOTABLE	8,8	12452
Automated Segmentation of Ischemic Lesions in MR Images	580559	SOBRESALIENTE	9,2	8549
Automatic Diagnosis of Sjögren's Syndrome Based on Convolutional Neural Networks	411022	SOBRESALIENTE	9,7	19916
Cardiac and cerebral tissue preparation for mechanoelasticity studies by Brillouin spectroscopy	385006	SOBRESALIENTE	10,0	11750
Characteristics of IcoBrainPET Scanner and X-Ray Sensing Capabilities in PET Detectors	580538	NOTABLE	7,1	15008
Characterization of Calcineurin (CnABeta1) in rodent brain	581598	SOBRESALIENTE	10,0	11750
Controlled drug delivery by means of nanoparticles and magnetic fields for neural regeneration	580628	SOBRESALIENTE	9,1	11579
Deep Learning applied to imaging equipment segmentation in preclinical CT images.	580525	SOBRESALIENTE	10,0	20537
Deep Learning for Automatic Segmentation of Tumors in Different Anatomical Sites	580524	SOBRESALIENTE	9,4	19916
Deep Learning-Based Generation of Synthetic CT from MR Images for Craniostylosis Planning	580622	SOBRESALIENTE	9,5	19916
Deep learning techniques for image reconstruction in positron emission tomography	580726	SOBRESALIENTE	9,7	15160
Design and manufacturing of maxillofacial implants through 3D bioprinting	399645	NOTABLE	8,4	12305
Design and validation of an implantable device for prosthetic vision	580595	SOBRESALIENTE	9,6	12305
Design of a pulley system for enhancing SMA-based artificial muscle displacement	580651	SOBRESALIENTE	9,0	0176
Design of an experimental facility to investigate biomedical oscillatory flows	580502	SOBRESALIENTE	9,0	4402
Development and clinical evaluation of an augmented reality training system for intraoperative radiation therapy	580621	SOBRESALIENTE	9,0	19242
Development and viability study of a miniaturized optical cardiac sensor	399624	SOBRESALIENTE	9,0	8509
Development of Magnetic Resonance Imaging nanotracers for the diagnosis of Atherosclerosis	580672	SOBRESALIENTE	9,1	14473
Development of a Convolutional Neural Network for the Analysis of Brain Tumor MRI Images	580560	NOTABLE	8,7	8509
Development of a MATLAB App for Stereo-EEG Electrode Visualization	580589	SOBRESALIENTE	9,4	8549

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Development of a minimally instrumented system for biomechanical analysis in amateur athletes: application to rhythmic gymnastics	580522	MATRÍCULA HONOR	10,0	15160
Development of an Application for Quantitative Cardiac Electrophysiology Research and Case Study of Signals from an Animal Model	580620	SOBRESALIENTE	9,4	12702
Development of an optoacoustic experimental set-up	580648	SOBRESALIENTE	10,0	8509
Enhancement of Premature Stop Codon Suppression induced by Aminoglycosides in Recessive Dystrophic Epidermolysis Bullosa	584142	SOBRESALIENTE	9,6	6511
Enhancing Mycelium-Based Materials with Silica for Biomedical Devices	580624	SOBRESALIENTE	9,0	18259
Estimation of Endolymphatic Hydrops Ratios in Meniere Disease	580504	SOBRESALIENTE	10,0	12702
Estimation of intracranial pressure fluctuations from measurements of cerebrospinal fluid flow	580594	SOBRESALIENTE	9,7	4402
Estimation of the push-off force using wearable technology for ankle foot orthosis of children with Cerebral Palsy	400756	SOBRESALIENTE	9,7	0176
Evaluating therapeutic dose-response and rejuvenating potency of cardiosphere-derived extracellular vesicles on cardiac cells	580738	SOBRESALIENTE	9,6	11579
Exploring the Multi-Layer Connectome of C. Elegans: Integrating monoamine and neuropeptide layers into community detection and functional analysis	584362	SOBRESALIENTE	9,6	1070
Fluid dynamics of respiratory-like droplets under evaporation and its effect on the localisation and inactivation of viruses	580678	MATRÍCULA HONOR	10,0	1774
Fostering a Sustainable and Innovative Biomedical Devices Ecosystem within Resource-Constrained Environment: A Comprehensive Project-based Study Using the PPG Edukit.	371011	NOTABLE	7,0	11579
Goat®milk-derived exosomes as curcumin carriers for brain drug delivery	399639	SOBRESALIENTE	10,0	14473
IN SILICO MODELLING OF PROTEIN-PROTEIN AND PROTEIN-LIGAND INTERACTIONS IN RECESSIVE DYSTROPHIC EPIDERMOLYSIS BULLOSA	399576	SOBRESALIENTE	9,7	12452
Image enhancement for radiology systems	389270	NOTABLE	8,3	8549
Implementation of a novel functional connectivity methodology to neuroimaging and neurophysiological data	580521	MATRÍCULA HONOR	10,0	15008
Implementation of new pipeline for phase-coupling estimation in brain oscillatory activity during working memory tasks	580533	SOBRESALIENTE	9,7	6512
Layer-by-layer encapsulation of commensal bacteria for the treatment of skin inflammatory diseases	399618	SOBRESALIENTE	9,5	12305
Low-Cost sEMG-Based Gesture Recognition Pipeline for Serious Games in Rehabilitation	584358	SOBRESALIENTE	9,4	1962
Maturation of in vitro skin culture characterization using impedance measurements	399607	SOBRESALIENTE	9,5	14906
Measurement and correction of the image distortion in Optical Coherence Tomography	580681	SOBRESALIENTE	10,0	12702
New Metric for Characterisation of Heterogeneity in Cardiac Electric Propagation Using High- density Multielectrode Catheters.	580664	MATRÍCULA HONOR	10,0	6512
Omnipole Limitations in High Density Multielectrode Catheters: A Comparative Study on Epicardial Signals	565500	SOBRESALIENTE	10,0	6512
Open-Source CAD of Versatile Surgical Guides for VSP-based Fibular Free Flap Reconstruction in Oncologic Mandibles	580565	SOBRESALIENTE	10,0	11579
Optical Mapping Characterization of Calcium Transient in Cardiac Spheroids	580572	SOBRESALIENTE	10,0	11579
Position/stretch nylon-based sensor integrable in textile elastic cloth	580517	NOTABLE	8,8	0176
Quantitative assessment of phototoxicity during embryo development	414142	SOBRESALIENTE	9,5	
Reconstruccion de imagen y super resolucion por inteligencia artificial	580591	SOBRESALIENTE	9,4	17062
Regression of inflammation in histological biopsies for the study of 3D spatial immune response in pancreatic cancer	580500	SOBRESALIENTE	9,4	12702
SYNTHETIC T1-POST CONTRAST MRI IMAGING IN NEURO-ONCOLOGY USING DEEP LEARNING ON MULTIPARAMETRIC MRI	580639	SOBRESALIENTE	9,1	20537
Selective Auditory Attention Using Generative Subspace Self-Organizing Map (GASSOM)	580490	SOBRESALIENTE	9,3	11579
Sensorized ball for rehabilitation purposes	580584	SOBRESALIENTE	9,7	6817

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Signal Characterization in Atrial Fibrillation Signals	580659	SOBRESALIENTE	10,0	11579
Structural modeling and validation of leptin and metreleptin binding to Ob-R	580656	SOBRESALIENTE	9,5	19688
Study of vascular remodelling in rodents after cerebral ischaemia	580687	SOBRESALIENTE	9,0	6512
Study to Improve the Classification of a Tumor Infiltrating Lymphocyte Imaging Biomarker by Feature Ranking	580702	SOBRESALIENTE	10,0	
Synthesis and characterization of biofunctionalized Iron Oxide nanoparticles as MRI contrast agents for Clostridium difficile infection	580652	SOBRESALIENTE	10,0	14473
Ultrasound Image Segmentation using Deep Learning to quantify strain in carotid arteries	386721	SOBRESALIENTE	9,5	8549
TOTAL 70				

*GDC: Datos obtenidos para el proceso de indicadores a fecha 15/11/2023

*Trabajos presentados y calificados