


Wednesday July 8th		Thursday July 9th		Friday July 10th	
9:00-10:30	09:00-09:15 - Registration - 9:15-9:30 - Welcome	S04 - Medical Devices - Chairs: Laura Becerra, Albert Hernansanz		S07 - Neuromusculoskeletal & Sensory Control - Chairs: Bart Bijmens, Renate Janssen	
	<p>09:30-10:30 - Opening Keynote - Blanca Jordan, Projects Lead for Strategic Innovation, AnySolution - The Uncharted Path: Professional success, failure, continuous training, personal work, and passion, along professional growth - Blanca Jordán is a senior executive with 25 years of experience driving strategic innovation and digital transformation across the healthcare and life sciences sectors. Throughout her diverse career, she has held leadership roles as CTO, COO, and CPO, bridging the gap between business growth and deep technical environments. Recognized for her applied research background and natural leadership, she has served as a key expert for the European Commission and actively steers international technology roadmaps. Blanca is a firm believer in continuous learning, combining a background in Telecommunications Engineering with degrees in Sociology and Psychology. (https://www.linkedin.com/in/blancajordan/)</p> 	<p>09:30-09:55 - BT 09 - Irene Flores González - Design and Manufacturing Pipeline for Personalized Ostomy Systems in the Management of Enterotoxigenic E. coli</p> <p>10:00-10:25 - BT 11 - Esther Ortiz Rejón - Non-Invasive Framework for Menstrual Cycle Monitoring Using Saliva Ferritin Patterns and Machine Learning</p> <p>10:30-10:55 - BT 12 - Ricard Más Secanell - Prototype design, fabrication, and validation for preclinical evaluation of a non-battery active implantable medical device</p>	<p>09:00-09:25 - BT 14 - Alba Barnes Calle - AI-Based Computer Vision System for Post-Stroke Upper Limb Rehabilitation</p> <p>09:30-09:55 - BT 15 - Izaskun Sedano Martínez - Development of a Process to Validate the Design for a Hybrid Lower-Limb Exoskeleton Integrating Functional Electrical Stimulation</p> <p>10:00-10:25 - BT 16 - Laura Ovelheiro Barreiro - External Unit Prototype for a Minimally Invasive Neuromodulation System for Chronic Headaches: Towards Preclinical Large-Animal Studies</p> <p>10:30-10:55 - BT 13 - Aina Bennassar Pertusa - Toward individualized medicine in chronic stroke: diffusion MRI biomarkers of CST integrity and motor network reorganization for personalized neuromodulation</p>		
10:30-11:00	Coffee	11:00-11:30 Coffee		11:00-11:30 Coffee	
11:00-13:00	S01 - Methods in Biomedical Imaging - Chairs: Oscar Camara, Gonzalo Plaza	S05 - Cardiovascular Functions, Disorders & Characterization - Chairs: Eva Casoni, Antoni Ivorra		S08 - Biomedical Signal Complexity & Analysis - Chairs: Kathakali Sarkar, Demetrio Ferro	
	<p>11:00-11:25 - BT 01 - Emily Ji Lam - Vascular Segmentation and Characterisation of Porto-Sinusoidal Vascular Disease using Synchrotron-based X-Ray Phase Contrast Imaging</p> <p>11:30-11:55 - BT 02 - Jana Casau Pueyo - Generation and Validation of Synthetic Brain Computed Tomography Images for Ischemic Stroke</p> <p>12:00-12:25 - BT 03 - Laiba Mahmood Ayesha - Automatic Segmentation of the Globus Pallidus Internus in Paediatric Dystonia Using Conventional MRI</p> <p>12:30-12:55 - BT 04 - Albert Puga Sánchez - Monocular Tissue Synthesis from Endoscopy via Triangle Splatting</p>	<p>11:30-11:55 - BT 25 - Arnau Martínez Pérez - 3D Characterization of Cardiac Microstructure in X-ray Phase Contrast Images of Endomyocardial Biopsies using Machine Learning</p> <p>12:00-12:25 - BT 26 - María Cortés Díaz - Towards Connectivity and Geometry Aware Loss Optimization for Intracranial Vessel Segmentation in Stroke Imaging</p> <p>12:30-12:55 - BT 27 - Lola Carcereny Martínez - Modeling Flow Diverter Expansion in Endovascular Treatment of Intracranial Aneurysms</p> <p>13:00-13:25 - BT 28 - Iris Azlor Solé - Diagnostic performance of EPAC1 in CAD in the context of T2DM</p>	<p>11:30-11:55 - BT 37 - Madeleine Faïrey - Characterising Synchronisation on Ultra-Long Timescales in Epilepsy using Phase-Based Analysis on Subcutaneous Electroencephalographic Recordings</p> <p>12:00-12:25 - BT 36 - Marc Adrover Pons - Beyond Apparent Structure in Ultra-Long-Term Electroencephalography Recordings of Epilepsy Patients</p> <p>12:30 - 12:55 - BT 38 - Àlex Just Barbero - Nonlinear Frequency Mixing as a Mechanism for the Generation of Infra-Slow Oscillations in Coupled Neural Mass Models</p>		
13:00-14:30		13:30-14:30 Lunch		13:00-14:30 Lunch	
14:30-16:00	S02 - Biomechanics - Chairs: Elham Alizadeh, Abi Moslemivaraki, Estefano Muñoz-Moya	S06 - Imaging & Modelling in Clinics - Chairs: Gabriel Bernardino, Marc Molla		S09 - Neuroimaging & Signalling - Chairs: Demetrio Ferro, Oscar Camara, Yusufbaran Tanriverdi	
	<p>14:30-14:55 - BT 18 - Anna Freixas Morato - Orthosis Design for Climbers with Hand Arthritis</p> <p>15:00-15:25 - BT 19 - Ruth Agudo Belmonte - Standardized Yoga Protocol: Biomechanical Characterization of Modalities and Expert Motor Strategies</p> <p>15:30-15:55 - BT 20 - Xenia Yan Hueso Espinosa - Effect of Prolonged Load on Knee Articular Cartilage's Biomechanical Response</p>	<p>14:30-14:55 - BT 22 - Blanca Dongmei Martínez Piñero - Development and Evaluation of a 3D-Printed Anatomical Model to Improve Doctor-Patient Communication in Surgical Procedures</p> <p>15:00-15:25 - BT 23 - Carla Paires Ramis - Prediction of atrial fibrillation in hypertrophic cardiomyopathy using atrial morphology derived from cardiac magnetic resonance images</p> <p>15:30-15:55 - BT 24 - Alba Valero Viñals - Machine learning model integrating longitudinal MRI-Radiomics, Genetic Biomarkers, and Clinical Data for Outcome Prediction in Glioblastoma Patients undergoing Stupp Protocol</p> <p>16:00-16:25 - BT 21 - Anna Gallart Serracanta - Development of an Advanced Surgical Simulation Model for the Anterior Approach to the Hip</p>	<p>14:30-14:55 - BT 32 - Elena Polls Fuertes - Deep Brain Stimulation for Chronic Cluster Headache: A Structural Connectivity Study</p> <p>15:00-15:25 - BT 33 - Laura Montserrat Sokorina - Characterization of Thalamic Nuclei in Patients Receiving MRgFUS Treatment for Essential Tremor: A Radiomic-based study</p> <p>15:30-15:55 - BT 34 - Alex Trasancos Luque - Normative Amyloid-Tau PET Abnormality Mapping for Alzheimer's Disease Staging and Cognitive Impairment Classification</p> <p>16:00-16:25 - BT 35 - Anna Tocabados Gassol - Idiopathic Generalized Epilepsy: Interictal EEG Connectivity as a Biomarker of Disease Severity and Cognitive Dysfunction</p>		
16:00-16:30	Coffee	16:30 Picture + Farewell Aperó		16:30 Picture + Farewell Aperó	
16:30-18:00	S03 - Biological Systems Biophysics & Modelling - Chairs: Zerihun Workneh, Katherine Crump			CONFIDENTIAL PRESENTATIONS	
	<p>16:30-16:55 - BT 29 - Lucia Alcalde Calvete - Influence of Scaffold Porosity Gradients on Cell Differentiation</p> <p>17:00-17:25 - BT 30 - Nil Guell Melgar - Design and Implementation of a Low Intensity Focused Ultrasound Setup to Induce Mechanosensitive Calcium Response in Microglial Cells</p> <p>17:30-17:55 - BT 31 - Lucas Pellicer López - Engineering arabinose-inducible recombinase-controlled CRISPRi oscillators in Escherichia coli for synchronized population-level dynamics</p>				