	Monday July 15th	Tuesday July 16th	Wednesday July 17th
9:00-10:30	9:00-9:15 - Registration - 9:15-9:30 - Welcome	Biomechanics - Chairs: Laura Baumgartner, Elham Alizadeh	Entrepreneurship & Innovation I - Proposed Chairs: Nuria Brunet, Javier Santamaria
		9:00-9:25 - BT 06 - Sandra Eizaguerri Gallardo - Analyzing the influence of bone changes on the knee bone-cartilage interface during gait using finite element models	9:00-9:25 - BT 33 - Ariadna Plans Bellavista - Efficient Healthcare Resources Management in ASSIR: Powering Coordination for Quality Success in the Centres de Sexe i Reproducció de Catalunya
	9:30-10:30 - Opening Conversation - Zina Jarrahi Cinker , PhD, Director General MATTER, Creator PUZZLE X Barcelona	09:30-09:55 - BT 07 - Marc Torres Vila - Model validation of Subperiosteal Implants (SI) with Finite Element Analysis (FEA)	9:30-9:55 - BT 34 - Ariadna Quingles Lamarca - A Proof-of-Concept for the "MedTech Tiberina" Platform: Facilitating Access to Latest Catalan Biomedical Engineering Information
		10:00-10:25 - BT 8 - Natàlia Franco Monteagudo - Design of a prosthetic device for transmetatarsal partial foot amputation type	10:00-10:25 - BT 35 - German Anashkin Kachalin - Market analysis and prototype validation for TransCOR
10:30-11:00	Coffee	Coffee	10:30-10:55 - BT 36 - Pol Guash Roig - Implementation of Intellectual Property Protection Strategy and Regulatory Roadmap for TransCor: A Web-based Data Analysis Platform for Support in Clinical Decision-making in Cardiology
11:00-13:00	Signal Analysis - Chairs: Gorka Zamora, Murat Demirtas (TBC)	Neuroscience - Chairs: Demetrio Ferro, Marc Grau	11:00-11:30 Coffee
	11:00-11:25 - BT 09 - Alba Pi Mas - Phase and Morphology Analysis of Cerebral Blood Flow Signals for Intracranial Pressure Characterization	11:00-11:25 - BT 21 - Jan Cases Gendra - A Novel Biophysical Whole-Brain Model Explains Power Spectrum Alterations of Serotonergic Psychedelics Using Multimodal Neuroimaging	Entrepreneurship & Innovation II - Chairs: Antoni Ivorra, Sikha Okkath
	11:30-11:55 - BT 10 - Pau Boncompte - Task Engagement Modulation in the Primary Visual Cortex: A Layer and Frequency-Specific Analysis	11:30-11:55 - BT 22 - Zaid Al Hakloui - How synaptic transmission influences the dynamics of populations of spiking neurons	11:30 - 11:55 - BT 39 - Gonzalo Plaza Arriola - Neuroimaging-based machine learning estimation of biological brain age: discovering patterns of brain aging & enriching interventional trials
	12:00-12:25 - BT11 - Saloa Elizondo Urrutia - Prediction of Seizure Onset Zone in epilepsy patients via a network coupling measure	12:00-12:25 - BT 23 - Marcel Socoró Garrigosa - Rebalancing the depressed brain: a whole-brain computational study on the effects of external perturbations in psilocybin and escitalopram treatments.	12:00-12:25 - BT 37 - Mariam Coris Errouich - Feasibility analysis of a microwave- based device for the diagnosis and monitoring of Rheumatoid Arthritis
	12:30-12:55 - BT 12 - Joan Prenafeta Ribau - Characterization of neuronal dynamics in working memory	12:30-12:55 - BT 24 - Alba Roca de las Heras - A Multimodal Assessment of Freezing of Gait in Patients With Parkinson's Disease	12:30-12:55 - BT38 - Patricia Maria Barrufet Garbayo - Viability analysis of a microwave-based device for the diagnosis and monitoring of periodontitis and peri implantitis
13:00-14:00	Lunch	Lunch	13:00-13:25 - BT 40 - Núria Blanco i Quintanilla - Real-time environment monitoring for an artificial placenta system
	Cardiovascular - Chairs: Viacheslav Danilov, Gabriele Bernardino	Biology - Chairs: Pilar Rivera, Maria Segarra-Queralt	13:30-14:30 Lunch
	Cardiovascular - Chairs: Viacheslav Danilov, Gabriele Bernardino 14:00-14:25 - BT 18 - Antoni Cardona Riera - Computational Fluid Dynamics Analysis of Thrombus Formation in the Left Atrium Post-Heart Transplantation	Biology - Chairs: Pilar Rivera, Maria Segarra-Queralt 14:00-14:25-BT25-Samuel González Castro - Bacterial cellulose-based scaffolds for cell attachment: a novel approach for tissue regeneration and pseudo-tissues assays	13:30-14:30 Lunch Imaging - Chairs: Bart Bijnens, Gerard Martí
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Dr. Zina Jarrahi Cinker is a recognized Frontier Tech strategist, condensed matter physicist, MATTERVerse thought leader & Deep Science advocate. She serves as the Director General of MATTER, an international think tank of 30 country chapters, and Chief Creator of PUZZLE X-- the leading international event for Frontier Tech for the future--. PUZZLE X Barcelona supported by the Government of Spain, Generalitat de Catalunya, and Barcelona City Hall--, drives stakeholder dialogues among industry, governments, academia, and capital on how Frontier Technologies can shape the next chapter for cities, citizens, industries, and societies.

Dr. Cinker received a Ph.D. in Condensed Matter Ultrafast Spectroscopy from Vanderbilt University and has spent the past decade helping the materialization of deep science into technologies with broader impact. She previously served as the Executive Director of the U.S. National Graphene Association, the main organization, and body in North America with over 5,000 international members and organizations.