

Challenge-Based Research Funding Program Results

ID	Nombre del proyecto	Modalidad	Challenge	Topic
TM-10-306	Digital Media Observatory for media literacy and prevention from disinformation operations	Discovery Grants	E. Construction of a new social contract	E-T11. Participation and active citizenship
TM-10-372	Obesity and Diabetes Management Through Microbiota Modulation: An Animal Study of a Multi-Organ and Multi-Omic Assessment of a Probiotic-Enriched Beverage	Discovery Grants	SG. Special category - Synergy Grants	SG-T1. Interdisciplinary research projects between research groups associated with EIC and IOR to prove and demonstrate disruptive and multifaceted solutions to high-impact challenges tackling obesity
TM-10-436	Environmentally Friendly Approaches for Creating Nutrient-Rich and Technologically Versatile PlantBased Ingredients: Germination and Dry Separation	Discovery Grants	A. Trigger Sustainability Actions to Respond to the Climate Emergency, reduce social gaps and economic lag	A-T7. Water-Energy-Food Nexus
TM-10-520	Avocado by-products transformation for sustainable food innovation	Discovery Grants	A. Trigger Sustainability Actions to Respond to the Climate Emergency, reduce social gaps and economic lag	A-T14. Responsible/Sustainable production
TM-10-225	oriGen Data Analyses Phase 1 – Association Analyses of the first 1,500 Genomes from Tec and the first 15,000 Exomes from Regeneron	Discovery Grants	B. Promote the transformation of cities and communities to make them more sustainable, inclusive and prosperous	B-T10. Biotechnology for health, food and environment
TM-10-367	A Comprehensive Integrative Omics Approach for the Discovery of Diagnostic and Prognostic Biomarkers and Therapeutic Targets of Amyotrophic Lateral Sclerosis in a Mexican Cohort	Discovery Grants	B. Promote the transformation of cities and communities to make them more sustainable, inclusive and prosperous	B-T10. Biotechnology for health, food and environment
TM-10-423	Modeling and synthesis of lightweight hybrid metamaterials towards multifunctionality: structural integrity and thermal efficiency for the reduction of carbon emissions in the transportation industry	Discovery Grants	C3. Design advanced materials for different applications to be net-zero emission and zero carbon footprint	C3-T2. Lightweight materials for the transportation industry
TM-10-401	An integral strategy to prevent childhood obesity and promote healthy behaviours in Mexico	Discovery Grants	C5. Develop novel drugs, foods, advanced therapies, strategies and policies for early detection, prevention, and reduction of prevalence of metabolic disease and obesity in children	C5-T3. Analysis of Public Policy strategies to deal with childhood obesity.
TM-10-189	Reinventing Traditions: Reimagining the Heritage Foodscapes of Nuevo Leon	Exploratory Grants	A. Trigger Sustainability Actions to Respond to the Climate Emergency, reduce social gaps and economic lag	A-T29. Culture's contributions to sustainable development
TM-10-215	Association of Food Environment with Diabetes-Related Health Outcomes: Diet, Weight, and Obesity	Exploratory Grants	B. Promote the transformation of cities and communities to make them more sustainable, inclusive and prosperous	B-T8. Healthy Cities
TM-10-416	Assessment of Pesticide Mobility and Risk Mitigation in Lacustrine Communities of the Special Intervention Zone of Poncitlán, Jalisco.	Exploratory Grants	A. Trigger Sustainability Actions to Respond to the Climate Emergency, reduce social gaps and economic lag	A-T9. Emerging Pollutants
TM-10-417	Rethinking Wastewater Treatment Plants within the Water-Energy Nexus: A Life Cycle Approach for Energy Self-Sufficiency with Anaerobic Digestion of Activated Sludge	Exploratory Grants	A. Trigger Sustainability Actions to Respond to the Climate Emergency, reduce social gaps and economic lag	A-T5. Energy and Water Security

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TM-10-462	Microcosmic Understanding of the Pathways, Pollution & Solution Pertaining to Pesticides: Circular Engineering for Obstinate Chemicals (PPSoP)	Exploratory Grants	A. Trigger Sustainability Actions to Respond to the Climate Emergency, reduce social gaps and economic lag	A-T12. Circular Engineering
TM-10-475	Discovering novel metasurfaces, self-lubricating bio/nano-composites, and bio/nano-lubricants for net-zero vehicles – seeking for the zero friction/energy losses	Exploratory Grants	A. Trigger Sustainability Actions to Respond to the Climate Emergency, reduce social gaps and economic lag	A-T4. Zero-Net Technologies
TM-10-514	Creation of the first dual light-responsive targeted drug-delivery and activation system using two distinct molecular photoswitches for orthogonal control of drug release and pharmaceutical activity for safer therapies against obesity-related cancer	Exploratory Grants	C7. Propose public policy and entrepreneurship to combat excess weight and obesity	C7-T4. Special category - Synergy Grants. Interdisciplinary research projects between research groups associated with EIC and IOR to prove and demonstrate disruptive and multifaceted solutions to high-impact challenges tackling obesity.
TM-10-565	Artificial Intelligence for Uncovering Microbiome-Drug Addiction Relationships	Exploratory Grants	B. Promote the transformation of cities and communities to make them more sustainable, inclusive and prosperous	B-T11. Data Sciences, Artificial Intelligence & Quantum computing application
TM-10-237	Leveraging AI for charting the future quantum technology opportunities in Mexico	Exploratory Grants	B. Promote the transformation of cities and communities to make them more sustainable, inclusive and prosperous	B-T11. Data Sciences, Artificial Intelligence & Quantum computing application
TM-10-335	Smart Lightweighting: Developing Biodegradable Polymers with Programmable Degradation for Advanced 3D Printing in Engineering and Biomedical Applications	Exploratory Grants	C3. Design advanced materials for different applications to be net-zero emission and zero carbon footprint	C3-T2. Lightweight materials for the transportation industry
TM-10-388	Cyber-physical intelligent mobile robotic system for automatic building of civil structures	Exploratory Grants	C3. Design advanced materials for different applications to be net-zero emission and zero carbon footprint	C3-T5. Design advanced materials for different applications to be net-zero emission and zero carbon footprint
TM-10-393	MAITEC: Decision-Making Platform for Evaluating the Impact of Urban Mobility Strategies on Human Health, Air Pollution, and Energy Consumption Based on a Digital Twin of the City.	Exploratory Grants	B. Promote the transformation of cities and communities to make them more sustainable, inclusive and prosperous	B-T3. Smart cities
TM-10-434	Development of advanced materials for desalination and water purification using solar energy	Exploratory Grants	C4. Creation and development of high-tech manufacturing processes to accelerate and rapidly scale-up the production of advanced materials with minimum impact in the environment	C4-T3. Water recovery & reuse to ensure water resiliency
TM-10-519	Development of a sustainable shrimp feed formulation based on bioprocessed Sargassum biomass to enhance its nutritional and healthy parameters.	Exploratory Grants	C3. Design advanced materials for different applications to be net-zero emission and zero carbon footprint	C3-T4. Bio Waste products for industry and end-consumers (Circular Economy)
TM-18-430	Complex Thinking Education for All (CTE4A): A Digital Hub and School for Lifelong Learners	Exploratory Grants	C2. Design effective competency-based education and lifelong learning systems to elevate learning outcomes	C2-T2. Evaluate systems, policies, and strategies to scale skills Development and lifelong learning opportunities for different population and workforce segments
TM-10-299	Machine Learning for predicting metabolic health and disease in the oriGen cohort using lipidomic, genetic, and epidemiologic data	Exploratory Grants	C7. Propose public policy and entrepreneurship to combat excess weight and obesity	C7-T2. Enhanced sensitivity of diagnosis for current platforms