



COLLABORATIONS CSIC – CANADA AND THE USA

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I. FULLBRIGHT PROGRAMME

1.1. UNITED STATES

Project title	Foreign institution	ICU CSIC	Scientific area
<i>Advanced optical imaging for early assessment and prevention of myopia</i>	WELLMAN CENTER FOR PHOTOMEDICINE	INSTO. OPTICA DAZA DE VALDES	PHYSICAL SCIENCE AND TECHNOLOGIES
<i>Approaching the dietary patterns of central European early farming communities through dental micro-wear texture analysis: an experimental approach.</i>	LOYOLA UNIVERSITY CHICAGO	INSTC. MILA Y FONTANALS DE INVEST. EN HUMANIDADES	HUMANITIES AND SOCIAL SCIENCES
<i>Coordination improvements with a fleet of autonomous vehicles for ocean research</i>	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	INSTO. CIENCIAS DEL MAR	EARTH AND ENVIRONMENT
<i>Discovering, learning and sharing with the MIT: Toward the path of establishing stable, sustainable, and long-term collaborative bridges between institutions.</i>	MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)	VICEPRESIDENCIA ADJUNTA DE ÁREAS CIENTÍFICO-TÉCNICAS	CSIC CENTRAL SERVICES
<i>Generation of stem cell-based porcine blastoids to study embryo development and implantation</i>	UT SOUTHWESTERN MEDICAL CENTER	INST.NAC. DE INVEST. Y TECN. AGRARIA Y ALIMENTARIA	AGRICULTURAL SCIENCES
<i>Integrative Strategies for Eliciting Broadly Neutralizing Antibodies (bnAbs) and T Cell Immunity in HIV Vaccine Development</i>	NATIONAL INSTITUTES OF HEALTH (NIH)	CTRO. NACIONAL DE BIOTECNOLOGIA	BIOLOGY AND BIOMEDICINE
<i>Investigating retinal ganglion cells sensing of optical cues that modulate emmetropization</i>	UNIVERSITY OF ROCHESTER	INSTO. OPTICA DAZA DE VALDES	PHYSICAL SCIENCE AND TECHNOLOGIES
<i>La polinización del aguacate como herramienta para optimizar una producción sostenible del cultivo. Pollination as a tool to optimize sustainable avocado production</i>	UNIVERSITY OF CALIFORNIA, RIVERSIDE	INSTO. HORTOFRUTICULTURA SUBTROPICAL MED.LA MAYORA	AGRICULTURAL SCIENCES
<i>Pollination success in highly diverse Mediterranean plant communities: long-term evaluation of pollen limitation in endemic species under climate change</i>	UNIVERSITY OF PITTSBURGH	ESTACION BIOLOGICA DE DOÑANA	EARTH AND ENVIRONMENT



<i>Unraveling the regulatory mechanisms involved in Systemic Sclerosis through the integration of omics data</i>	BOSTON CHILDREN'S HOSPITAL	INSTO. PARASITOL. Y BIOMED. LOPEZ NEYRA	BIOLOGY AND BIOMEDICINE
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2. I-COOP PROGRAMME

2.1. UNITED STATES

Project title	Foreign institution	ICU CSIC	Scientific area
<i>Innovative Silicon Nanowire-Based Nanocomposite as Highly Effective Antibacterial Agent for Biomedical Use</i>	INSTITUTE OF OPTICS - UNIVERSITY OF ROCHESTER	INSTO. CIENCIA Y TECNOLOGIA DE POLIMEROS	MATERIALS SCIENCE AND TECHNOLOGY

3. I-LINK PROGRAMME

3.1. CANADA

Project title	Foreign institution	ICU CSIC	Scientific area
<i>A GLOBal analysis of the impacts of freshwater SALinizaTion on aquatic biodiversity (GLOBSALT)</i>	QUEEN'S UNIVERSITY	INSTO. DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA	EARTH AND ENVIRONMENT
<i>Collaboration to Study Ice Nucleation Properties of Functionalized Materials (ColceFun)</i>	UNIVERSITY OF ALBERTA	INSTO. CIENCIA DE MATERIALES BARCELONA	MATERIALS SCIENCE AND TECHNOLOGY
<i>Interplay Between Pathogens and Biofilms in the Food Industry (PATH-BIOFILM)</i>	LAVAL UNIVERSITY	INSTO. AGROQUIMICA Y TECNOLOGIA DE ALIMENTOS	FOOD SCIENCE AND TECHNOLOGY
<i>Nanostructured Materials - a design toward facing the challenges of the energetic transition</i>	CANADIAN LIGHT SOURCE	INSTO. TECNOLOGIA QUIMICA	CHEMICAL SCIENCE AND TECHNOLOGIES
<i>SRC-Link: Sustainability approach for prototyping the SKA Regional Centre network</i>	NATIONAL RESEARCH COUNCIL OF CANADA	INSTO. ASTROFISICA DE ANDALUCIA	PHYSICAL SCIENCE AND TECHNOLOGIES

3.2. UNITED STATES

Project title	Foreign institution	ICU CSIC	Scientific area
<i>A GLOBal analysis of the impacts of freshwater SALinizaTion on aquatic biodiversity (GLOBSALT)</i>	UNIVERSITY OF MARYLAND	INSTO. DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA	EARTH AND ENVIRONMENT



<i>Advancing machine learning in catalysis</i>	COLORADO STATE UNIVERSITY	INSTO. SINTESIS QUIMICA Y CATALISIS HOMOGenea	CHEMICAL SCIENCE AND TECHNOLOGIES
<i>Advancing PET technology in pediatric imaging: towards TOF and 3D photon positioning in BGO</i>	UNIVERSITY OF WASHINGTON	INSTO. INSTRUMENTACION PARA IMAGEN MOLECULAR	PHYSICAL SCIENCE AND TECHNOLOGIES
<i>Bacterial cell division inhibitors: elucidation of their molecular mechanisms and strategies to improve them</i>	MCGOVERN MEDICAL SCHOOL UTHealth HOUSTON	INSTO. QUIMICA FISICA BLAS CABRERA	CHEMICAL SCIENCE AND TECHNOLOGIES
<i>Collaborative exploration of arsenic sensing and carbon capture: a pathway to scientific breakthroughs</i>	SALK INSTITUTE FOR BIOLOGICAL STUDIES UNIVERSITY CALIFORNIA, SAN DIEGO	CTRO. NACIONAL DE BIOTECNOLOGIA	AGRICULTURAL SCIENCES
<i>Combining advanced computing and characterization to design unique metal catalysts</i>	MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)	INSTO. TECNOLOGIA QUIMICA	CHEMICAL SCIENCE AND TECHNOLOGIES
<i>Data-driven solutions for accelerating the development of BECCS technologies (AI4BECCS)</i>	UNIVERSITY OF CALIFORNIA, BERKELEY	INSTITUTO DE CIENCIA Y TECNOLOGIA DEL CARBONO	CHEMICAL SCIENCE AND TECHNOLOGIES
<i>Electrical stimulation as an innovative tool to develop extracellular vesicles for neural tissue engineering</i>	UNIVERSITY OF CALIFORNIA, DAVIS	INSTO. MICRO Y NANOTECNOLOGIA	PHYSICAL SCIENCE AND TECHNOLOGIES
<i>Far apart yet close together in the lowest fertility rankings: a comparative study of family dynamics in South Korea and Spain</i>	PRINCETON UNIVERSITY	INSTO. ECONOMIA, GEOGRAFIA Y DEMOGRAFIA	HUMANITIES AND SOCIAL SCIENCES
<i>Innovative Earth observation methods to monitor complex savanna ecosystems: understanding ecosystem function, diversity and water stress at multiple scales (EO-SAV)</i>	UNIVERSITY OF CALIFORNIA, DAVIS	INSTO. ECONOMIA, GEOGRAFIA Y DEMOGRAFIA	AGRICULTURAL SCIENCES
<i>Interplay Between Pathogens and Biofilms in the Food Industry (PATH-BIOFILM)</i>	MONTANA STATE UNIVERSITY U.S. ENVIRONMENTAL PROTECTION AGENCY U.S. DEPARTMENT OF AGRICULTURE	INSTO. AGROQUIMICA Y TECNOLOGIA DE ALIMENTOS	FOOD SCIENCE AND TECHNOLOGY



<i>JointTOPO: Joint inversion for tectonics of topographic, cosmogenic nuclides and thermochronological data in a Bayesian reversible-jump Monte Carlo Markov Chain scheme</i>	NORTH CAROLINA STATE UNIVERSITY AMHERST COLLEGE	INSTITUTO GEOLOGICO Y MINERO DE ESPAÑA	EARTH AND ENVIRONMENT
<i>MICRO2HOST: A network to disclose uncovered microbiota-host interactions driving farmed fish physiology</i>	DUKE UNIVERSITY	INSTO. CIENCIAS MARINAS DE ANDALUCIA	EARTH AND ENVIRONMENT
<i>Nanostructured Materials - a design toward facing the challenges of the energetic transition</i>	ILLINOIS INSTITUTE	INSTO. TECNOLOGIA QUIMICA	CHEMICAL SCIENCE AND TECHNOLOGIES
<i>Optomechanical resonators for high precision space experiments</i>	TEXAS A&M UNIVERSITY	INSTO. CIENCIAS DEL ESPACIO	PHYSICAL SCIENCE AND TECHNOLOGIES
<i>Role of Type IV Secretion Systems in the infection biology of obligate intracellular bacterial pathogens</i>	UNIVERSITY OF CALIFORNIA, BERKELEY MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)	CTRO. NACIONAL DE BIOTECNOLOGIA	BIOLOGY AND BIOMEDICINE
<i>The La Silla Southern Supernova Survey (LS4): a network to exploit the data and enable synergies for the future</i>	NORTHWESTERN UNIVERSITY LAWRENCE BERKELEY NATIONAL LABORATORY	INSTO. CIENCIAS DEL ESPACIO	PHYSICAL SCIENCE AND TECHNOLOGIES
<i>The Mechanics of Nervous System Morphogenesis: Evolutive and Pathological aspects</i>	HARVARD UNIVERSITY CHAN ZUCKERBERG BIOHUB NETWORK	CTRO. DE NEUROCIENCIAS CAJAL	BIOLOGY AND BIOMEDICINE
<i>Unifying approaches to understand the diversity of CLIMate change impacts for adaptation, management and conSERVATION purposes (CLIMASERVATON)</i>	CONSERVATION INTERNATIONAL HOPKINS MARINE STATION, STANFORD UNIVERSITY STONY BROOK UNIVERSITY	CENTRO OCEANOGRAFICO DE ILLES BALEARS	EARTH AND ENVIRONMENT
<i>Unveiling microalgae-microbiota interaction on the health benefits</i>	UNIVERSITY OF PITTSBURGH	INSTO. INV. CIENCIAS DE LA ALIMENTACION	FOOD SCIENCE AND TECHNOLOGY



<i>of furan fatty acids and bioactive peptides</i>			
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