



CSIC – ASIA COLLABORATIONS

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1. BILATERAL ACTIONS PROGRAMME

1.1. CHINA

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Haplo GS Wheat: WGS anchored haplotype imputation for genomic selection</i>	• CHINESE ACADEMY OF SCIENCES	CTRO. DE BIOTECN. Y GENOMICA DE PLANTAS	AGRICULTURAL SCIENCES
<i>Cooperation on Enhancement of EO-Based Products for a Sustainable Ocean (EO4OCEAN)</i>	• THE NATIONAL SPACE SCIENCE CENTER-CHINESE ACADEMY OF SCIENCES	INSTO. CIENCIAS DEL MAR	EARTH AND ENVIRONMENT
<i>Transcontinental Collaboration for Sustainable Irrigation: Spain-China Water Efficiency Initiative</i>	• ACADEMIA CHINA DE LAS CIENCIAS	CTRO. INV. SOBRE DESERTIFICACION	TIERRA Y MEDIOAMBIENTE
<i>How climate and land-use changes influence urban soil biodiversity and its support to ecosystem functions</i>	• ACADEMIA CHINA DE LAS CIENCIAS	INSTO. RECURSOS NATURALES Y AGROBIOLOGIA SEVILLA	CIENCIAS AGRARIAS

1.2. JAPAN

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>SOULMATE: Sulfur Observations, Understanding with Laboratory and Modeling by Astrochemical Tools and Experiments</i>	• RIKEN STAR AND PLANET FORMATION LABORATORY	CTRO. ASTROBIOLOGIA	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING
<i>RIOJA: Reionization and the Interstellar medium and stellar Origins with JWST and ALMA</i>	• NAGOYA UNIVERSITY • TOKYO UNIVERSITY • NATIONAL ASTRONOMICAL OBSERVATORY OF JAPAN • WASEDA UNIVERSITY • HIROSHIMA UNIVERSITY • CHIBA UNIVERSITY • TSUKUBA UNIVERSITY	CTRO. ASTROBIOLOGIA	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING
<i>Designing Next-Generation Zeolite Adsorbents for Xenon/Krypton Separation: Towards an Affordable and Energy-Efficient Process</i>	• TOKYO UNIVERSITY	INSTO. TECNOLOGIA QUIMICA	CHEMICAL SCIENCES AND TECHNOLOGIES



1.3. TAIWAN

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Targeting TDP-43 in neurodegenerative diseases</i>	• THE NATIONAL SCIENCE AND TECHNOLOGY COUNCIL	CTRO. INV. BIOLÓGICAS MARGARITA SALAS	CHEMICAL SCIENCES AND TECHNOLOGIES
<i>Building international bridges in plant virology: A Spain-Taiwan collaboration on whitefly-transmitted viruses</i>	• NATIONAL TAIWAN UNIVERSITY • NATIONAL CHIAYI UNIVERSITY • ASIA UNIVERSITY	INSTO. HORTOFRUTICULTURA SUBTROPICAL MED. LA MAYORA	AGRICULTURAL SCIENCES
<i>Development of amphiphilic dendrimers as RNA carriers for the treatment of glioblastoma and amyotrophic lateral sclerosis</i>	• KAOHSIUNG MEDICAL UNIVERSITY	CTRO. NACIONAL DE BIOTECNOLOGIA	BIOLOGY AND BIOMEDICINE
<i>Machine Learning for Controlling Optomechanical System</i>	• NATIONAL CHENG KUNG UNIVERSITY	INSTO. CIENCIA DE MATERIALES MADRID	MATERIALS SCIENCE AND TECHNOLOGY
<i>Versatile catalytic strategy for polar-functionalized, cross-linkable, self-healing, and photo-responsive polyolefins in a sustainable polymer economy</i>	• PROVIDENCE UNIVERSITY	INSTO. CIENCIA Y TECNOLOGIA DE POLIMEROS	MATERIALS SCIENCE AND TECHNOLOGY
<i>Deciphering the morphology and evolution of Milky-Way like galaxies with the ARRAKHS satellite mission</i>	• NATIONAL TSING HUA UNIVERSITY	INSTO. CIENCIAS DEL ESPACIO	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING
<i>AI-Enabled Healthcare Innovation: Systemic Transformation in Taiwan and Spain</i>	• NATIONAL YANG MING CHIAO TUNG UNIVERSITY	INSTO. GESTION INNOVACION Y CONOCIMIENTO	SOCIAL SCIENCES
<i>High Power Density Modules of Compound Semiconductors for an Efficient Electrification (HiPoDeM)</i>	• NATIONAL TAIWAN UNIVERSITY	INSTO. MICROELECTRONICA BARNA. IMB-CNM	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING
<i>Lattice study of renormalisation properties of quartic couplings in one and two Higgs doublet models coupled to SU(2) gauge fields</i>	• NATIONAL YANG MING CHIAO TUNG UNIVERSITY	INSTO. FISICA CORPUSCULAR	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING

2. I-COOP PROGRAMME

2.1. ARMENIA



Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Enhancing knowledge on plant-soil interactions in saline soils from Western-Central Asia</i>	• KHUJAND STATE UNIVERSITY • BOTANY INSTITUTE • BOTANY PLANT PHYSIOLOGY AND GENETICS INSTITUTE • KHATLON SCIENTIFIC CENTER • A. L. TAKHTAJAN INSTITUTE OF BOTANY OF THE NAS RA	ESTACION EXPERIMENTAL AULA DEI	AGRICULTURAL SCIENCES

2.2. BANGLADESH

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Electronic waste materials and their risks for aquatic organisms</i>	• SYLHET AGRICULTURAL UNIVERSITY	INSTO. CIENCIAS MARINAS DE ANDALUCIA	EARTH AND ENVIRONMENT

2.3. CHINA

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Non-contact optical coherence elastography system incorporating air-coupled ultrasound transducers for medical diagnosis.</i>	• NANCHANG HANGKONG UNIVERSITY	INSTO DE TECNOLOGIAS FISICAS Y DE LA INFORMACION	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING
<i>Pan-Genome Architecture and Epigenetic Regulation in Brassicas</i>	• INSTITUTE OF VEGETABLES AND FLOWERS - CHINESE ACADEMY OF AGRICULTURAL SCIENCES	CTRO DE BIOTECN. Y GENOMICA DE PLANTAS	AGRICULTURAL SCIENCES

2.4. INDIA

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Studies of the improvement of data quality for PET (Positron Emission Tomography)</i>	• COCHIN UNIVERSITY	INSTO. FISICA CORPUSCULAR	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING
<i>Use of <i>W.anomalus</i> as a plant growth promoting yeast under stress conditions</i>	• PANJAB UNIVERSITY	INSTO. BIOL.MOLECULAR CELULAR	AGRICULTURAL SCIENCES



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2.5. INDONESIA

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Designing a 20-Year Forecasting Framework for Tropical Watershed-Coastal Systems Using Explainable AI and Remote Sensing Data</i>	• HASANUDDIN UNIVERSITY	CTRO. AUTOMATICA Y ROBOTICA	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING

2.6. IRAN

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Development and optimisation of advanced calcium-based sorbents for high CO₂; capture performance and strong solar light absorption</i>	• TABRIZ UNIVERSITY	INSTITUTO DE CIENCIA Y TECNOLOGIA DEL CARBONO	CHEMICAL SCIENCES AND TECHNOLOGIES
<i>Development of Nanostructured Membrane-based Adsorption Systems for Water Crisis Management</i>	• SEMNAN UNIVERSITY	CTRO. INV. NANOMATERIALES Y NANOTECNOLOGI A	MATERIALS SCIENCE AND TECHNOLOGY

2.7. PALESTINE

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Vicia (fabaceae) crops in mediterranean countries: effect of biotic and abiotic stress in their nutritional and functional properties.</i>	• PALESTINE TECHNICAL UNIVERSITY	INSTO. GRASA	FOOD SCIENCE AND TECHNOLOGY
<i>Archaeopalestine. Capacity-building programme for Palestinian lecturers</i>	• AL-QUDS UNIVERSITY • AL-QUDS OPEN UNIVERSITY- BETHLEHEM	INSTO. CIENCIAS DEL PATRIMONIO	HUMANITIES

2.8. PHILIPPINES

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Efficient, safe, sustainable and high capacity all-solid-state batteries based on the design of new electrodes, electrolytes and interfaces and recycled ones.</i>	• NANOLABS LRC CO. LTD.	INSTO. CERAMICA Y VIDRIO	MATERIALS SCIENCE AND TECHNOLOGY



2.9. TAYIKISTAN

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Enhancing knowledge on plant-soil interactions in saline soils from Western-Central Asia</i>	• KHUJAND STATE UNIVERSITY • BOTANY INSTITUTE • BOTANY PLANT PHYSIOLOGY AND GENETICS INSTITUTE • KHATLON SCIENTIFIC CENTER • A. L. TAKHTAJAN INSTITUTE OF BOTANY OF THE NAS RA	ESTACION EXPERIMENTAL AULA DEI	AGRICULTURAL SCIENCES

2.10. TURKEY

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Exploring Nature-Derived Polymers for Electronics and Energy Applications</i>	• ISTANBUL TECHNICAL UNIVERSITY	INSTO. CIENCIA DE MATERIALES MADRID	CHEMICAL SCIENCES AND TECHNOLOGIES

2.11. UZBEKISTAN

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Enhancing knowledge on plant-soil interactions in saline soils from Western-Central Asia</i>	• KHUJAND STATE UNIVERSITY • BOTANY INSTITUTE • BOTANY PLANT PHYSIOLOGY AND GENETICS INSTITUTE • KHATLON SCIENTIFIC CENTER • A. L. TAKHTAJAN INSTITUTE OF BOTANY OF THE NAS RA	ESTACION EXPERIMENTAL AULA DEI	AGRICULTURAL SCIENCES

3. I-LINK PROGRAMME

3.1. ISRAEL

Project Title	Foreign Institution	CSIC Institute	Scientific Area
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INTEGRATED STRATEGIES TO IMPROVE FOOD SENSORY PERCEPTION AND CONSUMER ACCEPTABILITY IN OBESITY	• TEL-HAI UNIVERSITY	INSTO. INV. CIENCIAS DE LA ALIMENTACION	FOOD SCIENCE AND TECHNOLOGY
Elucidating membrane remodelling in nanocarriers trafficking by advanced microscopy	• KYOTO UNIVERSITY • WEIZMANN INSTITUTE OF SCIENCE	INSTO. QUIMICA AVANZADA DE CATALUÑA	CHEMICAL SCIENCES AND TECHNOLOGIES

3.2. JAPAN

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>SENTINEL: Sulfur ChEmistry iN The INterstELlar medium</i>	• RIKEN STAR AND PLANET FORMATION LABORATORY • SCHOOL OF SCIENCE UNIVERSITY OF TOKYO	CTRO. ASTROBIOLOGIA	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING
Elucidating membrane remodelling in nanocarriers trafficking by advanced microscopy	• KYOTO UNIVERSITY • WEIZMANN INSTITUTE OF SCIENCE	INSTO. QUIMICA AVANZADA DE CATALUÑA	CHEMICAL SCIENCES AND TECHNOLOGIES
Unifying approaches to understand the diversity of CLIMAtE change impacts for adaptation, management and conSERVATION purposes (CLIMASERVATON)	• ARCTIC RESEARCH CENTER - HOKKAIDO UNIVERSITY	CENTRO OCEANOGRAFIC O DE ILLES BALEARS	EARTH AND ENVIRONMENT
COMBINING ADVANCED COMPUTING AND CHARACTERIZATION TO DESIGN UNIQUE METAL CATALYSTS	• TOKYO UNIVERSITY	INSTO. TECNOLOGIA QUIMICA	CHEMICAL SCIENCES AND TECHNOLOGIES

3.3. SINGAPORE

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Customized Eye Models To Understand Myopia and their Clinical Application</i>	• SINGAPOR NATIONAL UNIVERSITY	INSTO. OPTICA DAZA DE VALDES	PHYSICAL SCIENCES, MATHEMATICS, ROBOTICS AND COMPUTING
Indoor Semitransparent Perovskite Solar Cells (INSPIRE)	• NANYANG TECHNOLOGICAL UNIVERSITY	INSTO. TECNOLOGIA QUIMICA	MATERIALS SCIENCE AND TECHNOLOGY



3.4. SOUTH KOREA

Project Title	Foreign Institution	CSIC Institute	Scientific Area
<i>Far apart yet close together in the lowest fertility rankings: a comparative study of family dynamics in South Korea and Spain</i>	• YONSEI UNIVERSITY	INSTO. ECONOMIA, GEOGRAFIA Y DEMOGRAFIA	SOCIAL SCIENCES
<i>Towards identification of sperm mechanism and relevant physiology processes in the porcine animal model.</i>	• CHUNG-ANG UNIVERSITY	INST.NAC. DE INVEST. Y TECN. AGRARIA Y ALIMENTARIA	AGRICULTURAL SCIENCES
<i>International Alliance for Next-Generation Climate-Adaptive and Sustainable Agriculture (AGRI-RESIL)</i>	• HOSEO UNIVERSITY	INSTO. AGROBIOTECNOLOGIA	AGRICULTURAL SCIENCES