

Search for a Spanish Partner for a Bilateral R&D Project

Organization	
Date of Request:	September 24 th , 2026
Company name:	Faculty of Science, Ain Shams University, Cairo, Egypt
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SECTION 1: Entity launching the partner search

(Please give brief / to the point explanations. For more explanation on any point below, you may add a short paragraph as an annexure, with this document.)

Sector	Higher Education and Research – Plant Molecular Biology, Biotechnology, and Applied Genomics
Entity mission or core functions	The Faculty of Science, Ain Shams University, is dedicated to advancing scientific knowledge and innovation in many fields including life sciences. The Central Laboratory Unit provides analytical services in genomics, proteomics, phytochemistry, and biotechnology, supporting both academic research and industrial collaboration.
Date of establishment	1950 (Faculty of Science, Ain Shams University)
Ownership (if public and traded, add stock exchange and ticker symbol)	Public university under the Egyptian Ministry of Higher Education and Scientific Research. Not publicly traded
Total number of employees	Approximately 1,200 academic and administrative staff within the Faculty of Science.
Number of employees in R&D	Over 300 researchers and graduate students actively engaged in R&D projects across departments, including plant molecular biology, biotechnology, and chemistry.

Key products sold or services provided	• Laboratory services (genomics, proteomics, phytochemical profiling) • Research outputs in plant genetics, biotechnology, and applied sciences • Training programs for students and researchers • Collaborative projects with industry and international partners
Entity core technical competences	• Plant molecular genetics and biotechnology • Genomics and proteomics analysis • Phytochemical profiling and natural product characterization • Applied biotechnology for agriculture, pharmaceuticals, and cosmetics
Key R&D programs and activities	• Genetic diversity and phytochemical profiling of Cleome and Rumex species • Development of biopesticides and bio-stimulants for sustainable agriculture • Identification of natural antioxidants and anthraquinone-rich actives for pharmaceutical and cosmetic applications • Collaborative projects with national and international partners in applied plant biotechnology
Examples of accomplishments	• Established the Central Laboratory Unit at Ain Shams University, providing advanced services in genomics, proteomics, chromatography, water analysis, microbiology and phytochemistry. • Successfully coordinated national and international research collaborations in plant molecular biology and biotechnology. • Published numerous peer-reviewed articles on plant genetics,

	phytochemical diversity, and applied biotechnology. • Developed training programs for graduate students and researchers in molecular biology and applied plant sciences. • Led applied projects on bio-pesticides, bio-stimulants, and natural antioxidants, linking academic research to industrial applications. • Pilot testing of nano-formulated botanical extracts for improved stability and delivery
Company strategic orientation	• Focused on applied research with direct industrial relevance, bridging academic expertise with commercial product development. • Strategic priority on sustainable agriculture (bio-pesticides, bio-stimulants) and natural health/cosmetics (antioxidants, anthraquinone-rich actives). • Commitment to international collaboration and enterprises in biotechnology, cosmetics, and pharmaceuticals. • Orientation toward technology transfer and commercialization, ensuring research outputs are scalable and market-ready. • Long-term vision: positioning the Faculty of Science and Central Laboratory Unit as a regional hub for plant biotechnology and natural product innovation.

SECTION 2: Spanish Company Profile

(Please provide a brief summary of the prospective partner company or organization. This summary may address some or all of the points below)

Profile of ideal technology partner	A Spanish SME or enterprise specialized in botanical extracts, agricultural biotechnology, natural cosmetics, or natural pharmaceuticals,
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	with strong R&D capacity and interest in applied product development.
Core technological competencies and expertise	• Extraction and formulation of plant-based bioactive compounds. • Development of bio-pesticides and bio-stimulants for sustainable agriculture. • Production of natural antioxidants and anthraquinone-rich actives for pharmaceutical and cosmetic applications. • Scale-up and commercialization of natural product formulations.
Other essential qualifications (e.g.: ownership, track records etc.)	• Privately owned or SME with proven track record in industrial R&D. • Experience in EU or international collaborative projects. • Demonstrated ability to move research outputs into commercial products.
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	
If you are interested in collaboration: please specify details and other important information you want to share with a potential company	We seek a partner to co-develop applied R&D activities, focusing on scaling phytochemical extracts into market-ready formulations. The Spanish partner will act as lead applicant on the CDTI side, ensuring industrial relevance and commercialization pathways.
Interested areas of collaboration	• Sustainable agriculture (bio-pesticides, bio-stimulants). • Natural health and cosmetics (antioxidants, anthraquinone-based actives).

	Pharmaceutical applications of plant-derived compounds.
Specific R&D contribution you are seeking/offering	Egyptian team (Ain Shams University): Genetic diversity studies, phytochemical profiling, laboratory characterization of Cleome and Rumex species. Spanish partner: Applied R&D, product formulation, pilot production, and commercialization of extracts for agriculture, pharmaceuticals, and cosmetics.

Short Summary of Research Objective:

Assessing genetic diversity and phytochemical profiles of wild Rumex and Cleome taxa in Egypt to identify high-value bioactive compounds for agricultural, nutraceutical, or bio-pesticide applications.



Signature

Name: Nahla El-Sherif

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