

CICLICA PRIMA

Smart Agriculture optimization to
Climate Change Adaptation



PARTNERS:



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What is the focus of UCA at CICLICA PRIMA?

In Morocco, where the challenges of water scarcity, soaring food costs, and a high unemployment rate loom large, the CICLICA project holds immense promise.

UCA aims raising awareness about the **judicious and balanced utilization of environmental resources** into the agricultural practices. This educational component fosters a culture of responsible resource management, furthering the cause of sustainability, which will **impact on the economic growth**.

Describe the role of UCA at CICLICA PRIMA

Our role in the CICLICA Project is to undertake the crucial task of **producing and characterizing superabsorbent biopolymers**. Our dedication to this endeavor is driven by a commitment to sustainable agricultural practices.

Which are the expected impacts?

Perhaps most notably impact, is that the project has the capacity to generate **new employment opportunities** and foster the growth of green small and medium-sized enterprises (SMEs) in the Mediterranean region.

This includes the production and marketing of superabsorbent polymers and biofertilizers, presenting **an avenue for economic development and job creation**.

What's the importance of this work?

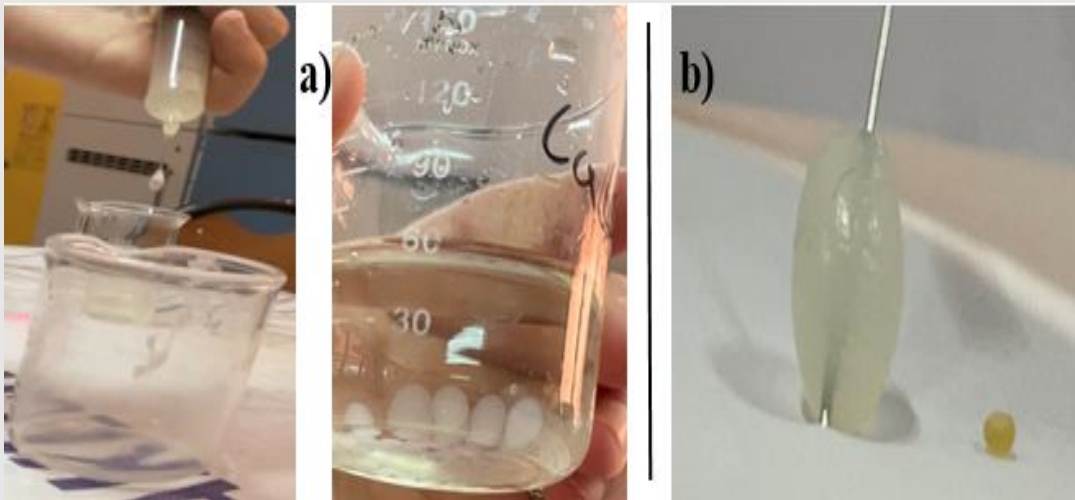
CICLICA's impact transcends the realms of agriculture and sustainability, reaching into the domains of economic growth, environmental awareness, and policy influence:

- A) Revolutionize agricultural practices by enhancing the efficient use of water, fertilizers, and nutrients will promote sustainability but also will mitigate the strain on resources, which is especially critical in the face of water scarcity.
- B) By reducing food production costs, CICLICA directly contributes to improving food affordability and accessibility for the population, thereby alleviating economic burdens.
- C) CICLICA's potential to influence policy decisions regarding the management of environmental resources is of paramount importance. It can inform and shape policies that are conducive to sustainable agricultural practices and environmental stewardship.

How does UCA do it?

In the initial phase of our involvement, UCA will be focused on **crafting biopolymers using bio-sourced materials**, thereby aligning our efforts with the principles of eco-friendliness and environmental responsibility.

Through meticulous characterization, we seek to gain a comprehensive understanding of the structural intricacies and chemical compositions of biopolymers. This knowledge is pivotal in **discerning their potential interactions with both plants and soil**, laying the foundation for their effective utilization in the project.



Subsequently, in the second phase, our emphasis will shift towards the **development of a biofertilizer**. Our approach is rooted in the demonstration of a consortium of environment-ecotype-symbiosis interactions, carefully assessed in terms of their symbiotic efficiency, particularly during periods of water and salt stress application.

By leveraging our expertise and research capabilities, we aim to contribute significantly to the success of CICLICA, advancing sustainable agricultural **solutions for the benefit of agriculture and the environment alike**.

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