IMPROVING CROP PRODUCTIVITY

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ABSTRACT

The research group Applied Plant Physiology of the University of Alicante has an extensive knowledge and experience in the analysis of nutrients in plants and its interpretation, use of mycorrhizal fungi as biofertilizers and bioprotectors against diseases, as well as rules for nutritional diagnosis of crops.

Companies interested in receiving specific training or who wish to develop new products and R&D projects could contact with us.

TECHNOLOGY ADVANTAGES AND INNOVATIVE ASPECTS

Traditionally, monitoring of agricultural crops is done through field inspections performed by farmers, producers and scientists, with the disadvantages associated with the limited number of samples within the field and the cost associated with this task.

New remote sensing techniques and other forms of remote data collection have demonstrated significant potential in support of agricultural practices in terms of **optimization of resources and integration of information**. In this sense, the multispectral systems provide accurate data on certain crop parameters (for example: shape, size of the fruit...) which may be related to the crop quality and field conditions. Therefore, remote sensing allows **tracking growth, needs of irrigation, the maturity of the crop and, accordingly, it should be established the fertigation**.

MARKET APPLICATIONS

The research lines of the Group Applied Plant Physiology at the University of Alicante are of interest for the following **industrial sectors**:

- Plant production
- Manufacturers of nutritional products.
- Plant protection products.
- Fruit-growing.
- Human food.
- Animal feed.
- Nurseries (horticultural and ornamental plants, forest and fruit trees, etc.).
- Greenhouses.

COLLABORATION SOUGHT

The research group looks for companies or research organizations:

• Establish R&D projects of mutual interest in order to open new lines of work or implement innovative technological applications.

• Carry out technical and scientific advice for business reports.

• Specific training in the area of the plant physiology: needs of irrigation and plant nutrition, fertilizers, bio-activators, optimization of plant growth conditions, etc.

• Provide technological support in those techniques that require a high training or sophisticated instrumentation that is not available to the applicant company.