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Studies of abiotic and biotic stress in suspension cells of *Capsicum chinense* Jacq

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The multiple environmental factors that affect plants give a complex set of abiotic and biotic stresses. Abiotic stress is defined as environmental conditions that reduce growth and yield below optimum levels. It is difficult to estimate the effects of abiotic stress on crop production but there is a significant impact on plants. The research of effects of environmental changes on crop cultures of high commercial demand is a constant topic in community of countries like Mexico. Many changes are occurring very fast and the crops sense that modifications and promote their adaptation to new different factors around them. To understand the function of the regulation of key pathways that respond specifically to a certain stress is a major biology challenge for the present time. In our research group, we are interested in the metabolic pathways of response to abiotic and biotic stress, and the function of key molecules like salicylic acid (SA) involved in the possible activation of response to stress through phospholipids pathway.

Biography

Muñoz-Sanchez Jose Armando has completed his MSc at the Anahuac University. He has published more than 25 papers in top journals and has been serving as Coordinator of several science diffusion events at national level. His experience in research is on “Techniques of biochemistry and physiology of plants, specifically in crops with high commercial interest in the Peninsula of Yucatan”.

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