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Effect of Nutrient Deficiencies on Stress Tolerance of Plants and Its Mechanism

Guest Editor:

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Deadline for manuscript submissions:
closed (25 May 2024)

Message from the Guest Editor

Dear Colleagues,

To cope with nutrient scarcity, plants generally follow two main complementary strategies. On the one hand, they can slow down growth. It is known that the TOR (Target Of Rapamycin) system is a central regulator of growth in response to nutrients in eukaryotic cells. On the other hand, plants can develop different physiological and morphological responses. It is known that the plant hormone ethylene participates in the activation of many nutrient deficiency responses.

Both strategies are compatible and can function simultaneously, but the interconnection between them is not yet well known.

We particularly welcome manuscripts dealing with the following topics:

- New advances and methods for the determination of both the “stop growing” and “searching for nutrients” strategies aimed at achieving greater stress tolerance of plants.
- New research shedding light on the relationship of ethylene with the TOR system related to the control of plant growth and development of nutrient deficiency responses.

All forms of submissions are welcome.

Dr. Carlos Lucena
Guest Editor

mdpi.com/si/165873

Special Issue

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Message from the Editor-in-Chief

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