



## Toward a Sustainable Agriculture Through Plant Biostimulants: From Experimental Data to Practical Applications

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Deadline for manuscript  
submissions:

**closed (16 March 2020)**

### Message from the Guest Editors

Dear Colleagues,

This Special issue invites scientific papers and invited Reviews and Mini Reviews dissecting the biostimulation action of these natural substances and beneficial microorganisms on crops grown under optimal and sub-optimal growing conditions (salinity, drought, nutrient deficiency and toxicity, heavy metal contaminations, waterlogging and adverse soil pH conditions). Of interest are also potential contributions dealing with the effect as well as the molecular and physiological mechanisms of plant biostimulants on nutrient efficiency, product quality and the modulation of the microbial population quantitatively and qualitatively. In addition, identification and understanding of the optimal method, time, rate of application and phenological stage for improving plant performance and resilience to stress as well as the best plant species/cultivar × environment × management practices combinations will be considered within the general scope of the Special Issue.

Prof. Youssef Rouphael

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*Guest Editors*





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## Message from the Editor-in-Chief

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