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Nutritional Quality of Agricultural Products under Climate Change Scenarios

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Deadline for manuscript submissions:
closed (20 February 2021)

Message from the Guest Editor

In August 2019, the Intergovernmental Panel on Climate Change (IPCC) elaborated a special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems (https://www.ipcc.ch/report/srccl/). The executive summary of Chapter 5, focused on food security, affirms that climate change is already affecting food security, mainly due to increasing temperatures, changes in the precipitation patterns, and more frequent extreme environmental events being the future perspectives pessimistic for food security. Moreover, increasing atmospheric CO2 can change plant stoichiometry, reduce the ratio between the nutritional and the caloric value of crops, and increase the micronutrient (zinc, copper or iron) malnutrition problem in the human diet. In addition, the impact of pests and diseases on food safety under scenarios of climate change should be taken into account due to the chemical and microbiological risks derived from the application of chemicals and from the accumulation of mycotoxins in the edible parts of crops.

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Message from the Editor-in-Chief

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