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Vitamins in Plants

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Message from the Guest Editors

Biofortification, a food-based strategy of increasing the bioavailability and/or level of nutrients in crops to improve human health, can be achieved through breeding as well as metabolic engineering. It has been proven to be a cost-effective means to reduce vitamin shortage in humans. These plant-produced vitamins include provitamin A, non-provitA carotenoids, Vitamin B1 (thiamine and its derivatives), vitB1), vitB2 (riboflavin), vitB3 (niacin, nicotinamide, and nicotinamide riboside), vitB5 (pantothenate), vitB6 (pyridoxine, pyridoxal, pyridoxamine, and phosphorylated derivatives), vitB7 (biotin), vitB9 (folates and their derivatives), vitC (ascorbate), and VitE (tocochromanols consisting of tocopherol and tocotrienol). Abscisic acid, strigolactones and ethylene are plant hormones sharing same synthetic pathway of amino acids and terpenes with vitamins. These metabolites are important to plant growth and yield. Thus, this Special Issue will cover a wide variety of areas, including metabolisms of vitamin derivatives, precursors, related hormones, amino acids and terpenes, biofortification, and their application in plant growth and yield.



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Special Issue



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Message from the Editor-in-Chief

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