Special Issue

Regulation and Application of Aminolevulinic Acid (ALA) in Green Agroforestry

Message from the Guest Editor

5-Aminolevulinic acid (ALA) is a natural ▯-amino acid. As an essential biosynthetic precursor of all tetrapyrrole compounds, such as chlorophylls, hemes, and phytochromes, it exhibits a great regulatory function in plant growth and development, as well as in environmental adaptation. ALA has been suggested to have huge potential and broad prospects when applied in agronomy, horticulture, and forestry as an insectcide, a fungicide, an herbcide, a colourant, or a growth regulator. We will focus on ALA's own biosynthesis and metabolism, the new mechanisms of ALA in regulating plant growth, and the new application of ALA in green agroforestry production. Any achievements, including new materials, new technologies, new methods, and new applications related to ALA, are within the scope of our concern, including but not limited to highly efficient production of ALA; molecular mechanisms of ALA regulating the plant biological process; new bioregulatory functions of ALA; cross-talk of ALA with classic plant hormones, etc.

Guest Editor

Prof. Dr. Liangju Wang

College of Horticulture, Nanjing Agricultural University, Nanjing 210095, China

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