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Secondary metabolites production: Use of integrative biology

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Described herein are devices and methods for enhancing the physiological properties of plants for increasing of secondary metabolites including antioxidans and antitumor. For example, the biological devices and methods described herein increase the production of the antioxidant/antitumor lycopene having also an industrial and economic value. The denoted technology is the result of integrating different scientific fundamentals with synthetic biology, thus enhancing production of lycopene manyfolds than conventional methods. In addition, it is cost effective as compared to conventional methods. This technology is able to induce production of lycopene and other secondary metabolites within three weeks of growth of the plant. The lycopene produced by the devices and methods do not require ultra purification, which is common in conventional or commercial methods. The biological devices and methods described herein also enhance the growth rate of plants.

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