



## つくば機能植物イノベーション研究センター 形質転換植物デザイン研究拠点研究セミナー (87)

日 時 : 2026年7月14日(火) 16:00-17:00  
場 所 : 生物農林学系棟 F506 セミナー室

タイトル : Biostimulants: Strategies to Decipher  
Their Mechanisms of Action

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The biosolutions market, including biocontrol products and biostimulants, is expanding rapidly, particularly in response to the growing demand for environmentally friendly agriculture in Europe. Biostimulants are defined as products that enhance plant growth by improving nutrient use efficiency or increasing tolerance to abiotic stresses (EU Regulation 2019/1009). However, demonstrating their efficacy remains challenging because of the complexity of their active substances and their specific modes of action. The debate surrounding plant biostimulants largely arises from the variable performance of some products, which is strongly influenced by environmental and physiological conditions, especially under abiotic stress. Deciphering the mechanisms underlying biostimulant action could help optimize their use, improve the consistency of their effects, and promote their wider adoption by farmers. We are testing three complementary approaches to investigate the mechanisms of action of biostimulants, using tomato and *Arabidopsis thaliana* as model species.

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