

分子生物学科セミナー
「戦略研究センター・グリーンバイオサイエンス領域共催」

Special Seminar

10/16 (Friday)
15:00-16:00



Professor Phil Brewer

La Trobe University,
Australia

理学部3号館2階11番教室

Can we engineer plant plasticity?
From hormone networks to crops on Earth and in space

Plants use interconnected hormone-gene networks to coordinate growth, development and responses to changing environments. This plasticity is essential but creates a challenge for crop improvement because altering one hormone pathway can affect many traits. I will discuss our emerging research at La Trobe University exploring how tissue-specific gene-hormone networks and regulatory variation might allow beneficial traits to be modified while retaining adaptive plasticity. Examples will include cereal architecture, nitrogen-responsive tillering, and engineering compact, resource-efficient plants for space. I will consider how these approaches could contribute to the next generation of plant science and crop improvement.

穀類の草型や窒素応答性、宇宙栽培に適したコンパクトな植物の開発を例に、環境適応性を損なわずに有用形質を改良する遺伝子-ホルモン制御の可能性を紹介します。ぜひご参加ください！

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