



筑波大学遺伝子実験センター
形質転換植物デザイン研究拠点
研究セミナー



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Plant CTD phosphatase and mRNA/ncRNA landscape

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For both protein-coding and non-coding genes, dynamic phosphoregulation on carboxy-terminal domain of RNA polymerase II (pol II-CTD) governs transcription from initiation to termination. In *Arabidopsis thaliana*, Pol II-CTD phosphatase-like 4 (CPL4) is an essential pol II-CTD phosphatase that regulates pol II-CTD phosphorylation status. Combining the Arabidopsis protein superexpression system and various genetic approaches, we are working on establishing biochemical and in vivo role of AtCPL4. Our findings to date suggest that plants use the pol II CTD phosphorylation status to regulate expression of subset of genes via snRNA-dependent mechanisms.

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