Tokyo University of Agriculture and Technology
Institute of Global Innovation Research

グローバルイノベーション研究院　公開セミナー
Institute of Global Innovation Research Open Seminar

N-glycan decorations and function of KORRIGAN1 in plant secretory system

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July 9 (Tue) 2019, 15:30 - 16:30

東京農工大学 府中キャンパス　2号館 1階 多目的講義室
Multipurpose Seminar Room , 1st Fl., Building 2, Fuchu Campus TUAT

ABSTRACT

Protein N-glycosylation is a ubiquitous post-translational modification in eukaryotic cells. It starts in endoplasmic reticulum and adds progressive modification to glycoproteins as they travel through the secretory system. The later stages of N-glycan modifications that occur in the Golgi apparatus are diverse among animals, fungi, and plants and produce complex N-glycans of unique structures. Previously we have discovered functional link between complex N-glycan biosynthesis and in vivo activity of KORRIGAN1 (KOR1) protein in the cellulose biosynthesis pathway. I will share recent knowledge obtained using molecular genetic and cell-imaging analysis of KOR1 dynamics and their relation to its N-glycosylation status.

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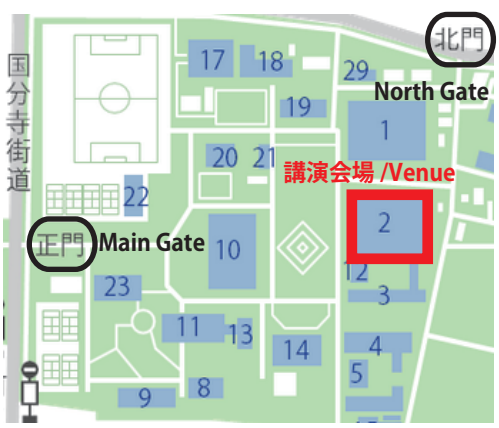

言語 / 英語 ・ Language / English
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