第 444 回つくば分子生命科学セミナー

TSUKUBA MOLECULAR LIFE SCIENCE SEMINAR

演題：**Towards understanding the regulatory mechanisms of unconventional kinetochore proteins.**

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日時：2018 年 8 月 7 日（火）　17:00-18:00
会場：医学学系棟 4F 483 号室(Seminar room 483)

要旨：Faithful chromosome segregation is essential for the survival of all eukaryotic cells. The kinetochore is a macromolecular protein complex that drives chromosome segregation during mitosis. *Trypanosoma brucei* is a unicellular flagellated eukaryote that is evolutionarily distant from common model eukaryotes such as yeasts and humans. Although basic cell-cycle machinery is conserved in *T. brucei*, it does not have any canonical kinetochore protein found in essentially all other sequenced eukaryotes. Instead *T. brucei* has at least twenty unconventional kinetochore proteins, called KKT1–20 and KKIP1–7. So far very little is known about the structure, function, and regulation of these components, and it remains unknown how they assemble onto the centromere to build mature kinetochores during mitosis. To address these questions, I have focused on two of these unconventional kinetochore proteins, KKT10 and KKT19 which have a kinase domain and might have regulatory roles. In this seminar, I will talk about recent results about KKT10/19 functions.

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