構造生物学研究センター
Structural Biology Research Center
SBRC KEK 物質構造科学研究所

SBRC International Cryo-EM Seminar Series, No.3

講演者: Yuzuru Itoh, Ph.D.

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講演タイトル：
How cryo-EM revolutionizes the field of protein synthesis

要旨：
Functional complexes in translation, especially for eukaryotic cytosolic and organelle ribosomes, had been limited before the development in cryo-electron microscopy (cryo-EM) triggered so-called resolution revolution. It opened doors to access to high-resolution structural information from less amount of sample with less purity than that for crystallization. Here, unpublished single-particle cryo-EM analyses of mitochondrial ribosomes (mitoribosomes) from human and the fugus *Neurospora crassa* will be presented. Extensive particle classification allowed to obtain several complexes representing several translational steps. Active cytosolic ribosome from *Plasmodium falciparum* was also analyzed by cryo-EM. An extra density next to the A site was found, which can correspond to a new translation factor.

場所：高エネルギー加速器研究機構・研究本館　会議室 1

時間：平成 30 年 11 月 7 日（水）16:00 – 17:30

皆様のご参加をお待ち致しております。

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