

The 70th iCeMS SEMINAR

CeMI セミナーシリーズ 21

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16:00-17:00

演 題 : **Quantum dots — a promising label for
long-term tracking of virus invasion**

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Viral infections are a very complicated and multistep process. Single-virus tracking (SVT) technique is a powerful approach to dynamically visualize the process for viruses to infect their host cells. Semiconductor quantum dots (QDs) have unique optical properties such as superior photostability and high fluorescence luminance compared to organic dyes and fluorescent proteins, making them very attractive label candidates for long-term single-virus tracking of the whole infection process into host cells. Based on the unique properties and high labeling efficiency of QDs, the long-time single-virus tracking technique was developed in single live cells. It has been directly and dynamically observed that viruses were transported into a perinuclear area and anchored in the microtubule-organizing center (MTOC).

主 催 : 京都大学 物質-細胞統合システム拠点 (iCeMS=アイセムス)

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