



QBiC SEMINAR

Speaker

Zev Bryant, Ph.D.

Stanford University

Date & Location

Friday, August 5, 2016

15:30 - 16:30

QBiC Bldg. A, 1F lounge

(6-2-3, Furuedai, Suita, Osaka)

There will be a TV broadcast at Kobe CDB bldg.D 2F seminar room.

Title

Engineering controllable molecular motors

Abstract

Engineering biomolecular motors can provide direct tests of structure-function relationships, new tools for controlling cellular processes, and customized components for harnessing molecular transport in artificial systems. Our laboratory has designed and characterized a series of modified cytoskeletal motors that reversibly change gears — speed up, slow down, or switch directions — when exposed to external signals such as metal ions, blue light, or oligonucleotide strands. Using a modular approach, we have developed controllable motors for both actin-based and microtubule-based transport.

Host

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