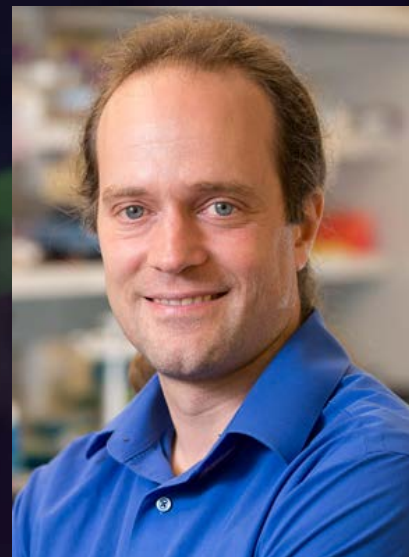


# Yamate Evening Seminar

July 29th, 2016, 16:00-17:00

Large meeting room, 2<sup>nd</sup> floor, Yamate 3<sup>rd</sup> Bldg.

**Prof. Zev Bryant**  
(Stanford University)



## Engineering controllable biomolecular motors



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.

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