

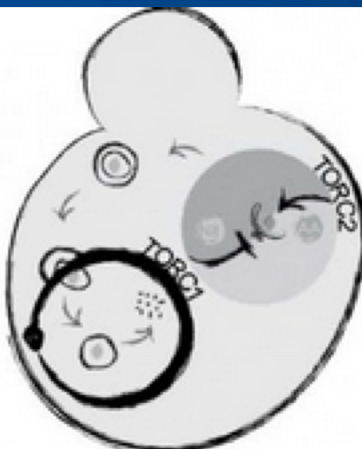
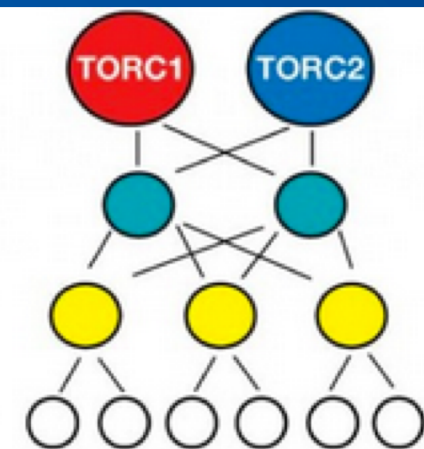
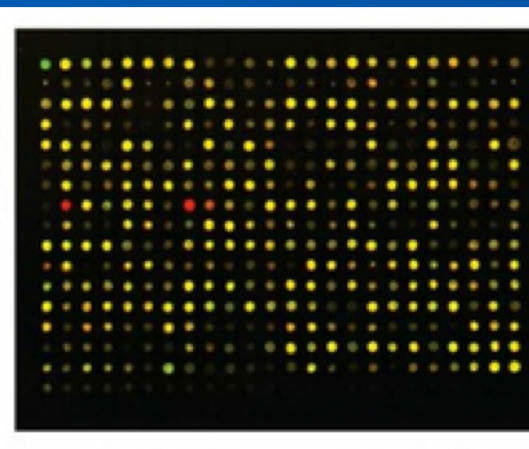
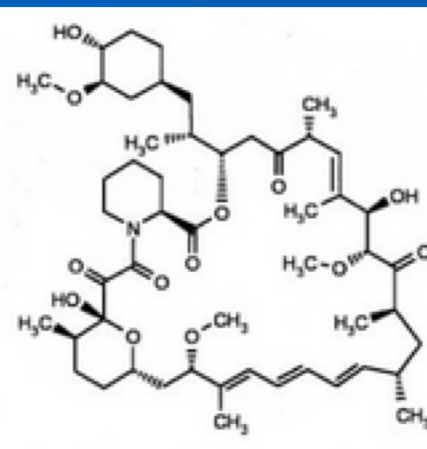
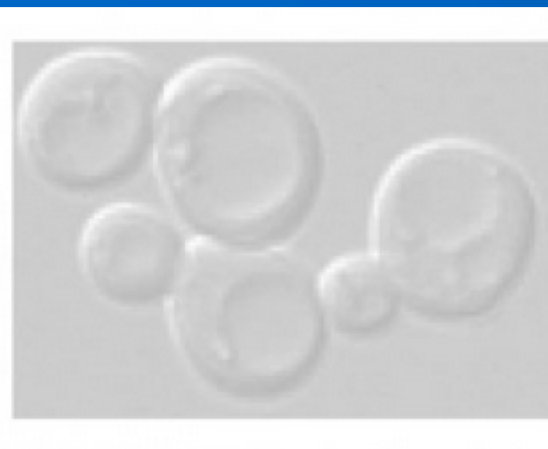
## TOR Signaling and TOR Complex Assembly

**Professor Ted Powers**  
University of California, Davis

Host: **Masaru Ueno**, Graduate  
School of Integrated Sciences for Life

How eukaryotic cells regulate their growth in response to both environmental stimuli as well as intracellular signals is a fundamental question in life science. We have been particularly focused on the role of a conserved signaling network, defined by its central player the TOR kinase, so named because it is the target of the antibiotic and anti-tumor drug rapamycin. TOR is a large (~280 kDa) protein that assembles with an overlapping yet distinct set of interacting proteins to form two different complexes, termed TOR Complex 1 and 2 (TORC1 and TORC2). Together these complexes collaborate to control both temporal as well as spatial aspects of cell growth, including nutrient-regulated gene expression, ribosome biogenesis, membrane trafficking, and polarized cell growth.

ラパマイシン標的タンパク質(TOR)は、細胞が栄養源に応答する上で中心的な役割を果たす真核生物に保存されたキナーゼであり、老化・寿命、癌、肥満など様々な疾患に深く関わる分子です。Ted Powers博士は、TORシグナル伝達ネットワークに関する世界的な研究者です。来日にあたり、TORに関する最新の研究をご講演して頂くことになりました。教員・院生・学部生を問わず多数のご来聴をお待ちしております。



※本セミナーは5研究科共同セミナーです。

**開催日時: 令和元年 12月 16日(月) 14:00-15:00**

**会場: 広島大学先端科学総合研究棟 401N講義室**

お問い合わせ先

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