REPORTS

364 mTORC1 Phosphorylation Sites Encode Their Sensitivity to Starvation and Rapamycin
S. A. Kang et al.
Inhibition of a protein kinase differentially affects its targets, depending on phosphorylation site characteristics.
Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1236566

387 Creating a False Memory in the Hippocampus
S. Ramirez et al.
Associations can be artificially created through reactivation of memory engrams in mouse dentate gyrus granule cells.
>> Science Podcast

392 FtsZ Protofilaments Use a Hinge-Opening Mechanism for Constrictive Force Generation
Y. Li et al.
The curved structure of a protein involved in cell division reveals the mechanism for Z-ring constriction during cytokinesis.

395 Nuclear PTEN Controls DNA Repair and Sensitivity to Genotoxic Stress
C. Bassi et al.
The phosphatase PTEN works as a lipid phosphatase in the cytoplasm and a protein phosphatase in the nucleus.

403 Xk-Related Protein 8 and CED-8 Promote Phosphatidylserine Exposure in Apoptotic Cells
J. Suzuki et al.
An enzyme involved in the flipping of phospholipids in dying cells’ surfaces to mark the cells for removal is identified.

406 Reprogramming of Intestinal Glucose Metabolism and Glycemic Control in Rats After Gastric Bypass
N. Saedi et al.
The intestine can adopt a role in glucose control after surgery, possibly explaining why the surgery cures diabetes.

410 H7N9 Influenza Viruses Are Transmissible in Ferrets by Respiratory Droplet
Q. Zhang et al.
A large survey of H7N9 influenza viruses in China reveals a spectrum of mutation and virulence.