

The Choreography of Cell Signaling in Disease

- 1 **Sponsor's Foreword**
3 **Editorial**

Reviews

- 5 TOR Signaling in Growth and Metabolism
Cell **124**, 471–484 *S. Wullschleger, R. Loewith, and M.N. Hall*
20 Targeting the PI3K-Akt pathway in human
cancer: Rationale and promise
Cancer Cell **4**, 257–262 *J. Luo, B.D. Manning, and L.C. Cantley*

Articles

- 27 A Pharmacological Map of the PI3-K Family Defines a Role for p110 α in Insulin Signaling
Cell **125**, 733–747 *Z.A. Knight, B. Gonzalez, M.E. Feldman,
E.R. Zunder, D.D. Goldenberg, O. Williams,
R. Loewith, D. Stokoe, A. Balla, B. Toth, T. Balla,
W.A. Weiss, R.L. Williams, and K.M. Shokat*
42 Loss of class I α PI3K signaling in muscle leads to impaired muscle growth, insulin response, and hyperlipidemia
Cell Metabolism **3**, 355–366 *J. Luo, C.L. Sobkiw, M.F. Hirshman,
M.N. Logsdon, T.Q. Li, L.J. Goodyear,
and L.C. Cantley*
55 Reduction in the requirement of oncogenic Ras signaling to activation of PI3K/AKT pathway during tumor maintenance
Cancer Cell **8**, 381–392 *K.-H. Lim and C.M. Counter*
67 Phosphorylation and Functional Inactivation of TSC2 by Erk: Implications for Tuberous Sclerosis and Cancer Pathogenesis
Cell **121**, 179–193 *L. Ma, Z. Chen, H. Erdjument-Bromage,
P. Tempst, and P.P. Pandolfi*