## Contents

## Perspectives

Terspectives	
<b>Transcriptional competence in pluripotency</b> Edupuganti V.S. Raghu Ram and Eran Meshorer	2793
Overcoming inhibition in the spindle checkpoint Vincent Vanoosthuyse and Kevin G. Hardwick	2799
Research Communications	
Genetic dissection of the miR-17~92 cluster of microRNAs in Myc-induced B-cell lymphomas Ping Mu, Yoon-Chi Han, Doron Betel, Evelyn Yao, Massimo Squatrito, Paul Ogrodowski, Elisa de Stanchina, Aleco D'Andrea, Chris Sander, and Andrea Ventura	2806
Neuronal SIRT1 regulates endocrine and behavioral responses to calorie restriction Dena E. Cohen, Andrea M. Supinski, Michael S. Bonkowski, Gizem Donmez, and Leonard P. Guarente	2812
A novel histone fold domain-containing protein that replaces TAF6 in Drosophila SAGA is required for SAGA-dependent gene expression Vikki M. Weake, Selene K. Swanson, Arcady Mushegian, Laurence Florens, Michael P. Washburn, Susan M. Abmayr, and Jerry L. Workman	2818
Research papers	
Transcriptional competence and the active marking of tissue-specific enhancers by defined transcription factors in embryonic and induced pluripotent stem cells Jian Xu, Jason A. Watts, Scott D. Pope, Paul Gadue, Mark Kamps, Kathrin Plath, Kenneth S. Zaret, and Stephen T. Smale	2824
<i>miR-19</i> is a key oncogenic component of <i>mir-17-92</i> Virginie Olive, Margaux J. Bennett, James C. Walker, Cong Ma, Iris Jiang, Carlos Cordon-Cardo, Qi-Jing Li, Scott W. Lowe, Gregory J. Hannon, and Lin He	2839
Intergenic transcription by RNA Polymerase II coordinates Pol IV and Pol V in siRNA-directed transcriptional gene silencing in <i>Arabidopsis</i> Binglian Zheng, Zhengming Wang, Shengben Li, Bin Yu, Jin-Yuan Liu, and Xuemei Chen	2850
Fusion of nearby inverted repeats by a replication-based mechanism leads to formation of dicentric and acentric chromosomes that cause genome instability in budding yeast	2861

Andrew L. Paek, Salma Kaochar, Hope Jones, Aly Elezaby, Lisa Shanks, and Ted Weinert

Nearby inverted repeats fuse to generate acentric and dicentric palindromic chromosomes by a replication template exchange mechanism Ken'Ichi Mizuno, Sarah Lambert, Giuseppe Baldacci, Johanne M. Murray, and Antony M. Carr	2876
Quantitative proteomic analysis of purified yeast kinetochores identifies a PP1 regulatory subunit	2887
Bungo Akiyoshi, Christian R. Nelson, Jeffrey A. Ranish, and Sue Biggins	
Stn1–Ten1 is an Rpa2–Rpa3-like complex at telomeres	2900
Jia Sun, Eun Young Yu, Yuting Yang, Laura A. Confer, Steven H. Sun, Ke Wan,	
Neal F. Lue, and Ming Lei	
Human POT1 is required for efficient telomere C-rich strand replication in the absence of WRN	2915
Nausica Arnoult, Carole Saintome, Isabelle Ourliac-Garnier, Jean-François Riou, and Arturo Londoño-Vallejo	

Reviewers	292
Author Index	292

**Cover** *miR-19a* and *miR-19b* are the key components of the oncogenic microRNA cluster *miR-17-92*. Shown here in the foreground are the six mature mRNAs that the polycistronic *mir-17-92* cluster encodes (*left* to *right*, respectively): *miR-17*, *miR-18*, *miR-19a*, *miR-20*, *miR-19b*, and *miR-92*. miR-19a and miR-19b (highlighted with pink) are both necessary and sufficient to promote *c-myc*-induced B-cell lymphomagenesis. Shown in the background are NIH 3T3 cells infected with retrovirus overexpressing *miR-19b*. All infected cells carry a GFP transgene, allowing for in vitro visualization. (For details, see Olive et al., p. 2839.)