## Contents

### Bioinformatics

**MCTBI: a web server for predicting metal ion effects in RNA structures**  
Li-Zhen Sun, Jing-Xiang Zhang, and Shi-Jie Chen  
1155

### Reports

**A resource for functional profiling of noncoding RNA in the yeast Saccharomyces cerevisiae**  
Steven Parker, Marcin G. Fracek, Jian Wu, Sara Shamsah, Alkisti Manousaki, Kobchai Dungrattanalert, Rogerio Alves de Almeida, Diego Estrada-Rivadeneyra, Walid Omara, Daniela Delneri, and Raymond T. O'Keefe  
1166

**3' UTR G-quadruplexes regulate miRNA binding**  
Samuel Rouleau, Jean-Pierre Sehi Glouzon, Andrea Brumwell, Martin Bisaillon, and Jean-Pierre Perreault  
1172

**Polyadenylation is the key aspect of GLD-2 function in C. elegans**  
Marco Nousch, Ryuji Minasaki, and Christian R. Eckmann  
1180

**Expression of distinct maternal and somatic 5.8S, 18S, and 28S rRNA types during zebrafish development**  
Mauro D. Locati, Johanna F.B. Pagano, Genevieve Girard, Wim A. Ensink, Marina van Olst, Selina van Leeuwen, Ulrike Nehrdich, Herman P. Spank, Han Rauwerda, Martijis J. Jonker, Rob J. Dekker, and Timo M. Breit  
1188

### Articles

**Thousands of RNA-cached copies of whole chromosomes are present in the ciliate Oxytricha during development**  
Kelsi A. Lindblad, John R. Bracht, April E. Williams, and Laura F. Landweber  
1200

**Impact of RNA structure on ZFP36L2 interaction with luteinizing hormone receptor mRNA**  
Christopher B. Ball, Amanda C. Solem, Rita M. Meganck, Alain Laederach, and Silvia B.V. Ramos  
1209

**Transcript-specific characteristics determine the contribution of endo- and exonucleolytic decay pathways during the degradation of nonsense-mediated decay substrates**  
Franziska Ottens, Volker Boehm, Christopher R. Sibley, Jernej Ule, and Niels H. Gehring  
1224

(continued)
P53-miR-191-SOX4 regulatory loop affects apoptosis in breast cancer
Shivani Sharma, Neha Nagpal, Prahlad C. Ghosh, and Ritu Kulshreshtha

Improved microRNA suppression by WPRE-linked tough decoy microRNA sponges
Anne Kruse Hollensen, Rune Thomsen, Rasmus O. Bak, Charlotte Christie Petersen, Eva R. Ermegaard, Lars Aagaard, Christian Kroen Damgaard, and Jacob Giehm Mikkelsen

In silico target network analysis of de novo-discovered, tick saliva-specific microRNAs reveals important combinatorial effects in their interference with vertebrate host physiology
Michael Hackenberg, David Langenberger, Alexandra Schwarz, Jan Erhart, and Michail Kotsyfakis

NF45 and NF90/NF110 coordinately regulate ESC pluripotency and differentiation
Julia Ye, Hu Jin, Aleksandr Pankov, Jun S. Song, and Robert Blelloch

Methods
Avoidance of reporter assay distortions from fused dual reporters
Gary Loughran, Michael T. Howard, Andrew E. Firth, and John F. Atkins

Specific RNP capture with antisense LNA/DNA mixmers
Birgit Rogell, Bernd Fischer, Mandy Rettel, Jeroen Krigsveld, Alfredo Castello, and Matthias W. Hentze

High-throughput and site-specific indentification of 2′-O-methylation sites using ribose oxidation sequencing (RibOxi-seq)
Yinzhou Zhu, Stephan P. Pirnie, and Gordon G. Carmichael

RNA: Instructions for contributors

OA Open Access paper