17  The three 'C's of chromosome conformation capture: controls, controls, controls
Job Dekker

23  Fluorescent sensors for rapid monitoring of intracellular cGMP
Viacheslav O Nikolaev, Stepan Gambaryan & Martin J Lohse
see news and views page 11

27  In situ detection of miRNAs in animal embryos using LNA-modified oligonucleotide probes
Wigard P Kloosterman, Erno Wienholds, Ewart de Bruijn, Sakari Kauppinen & Ronald H A Plasterk
see news and views page 12

31  Whole-genome genotyping with the single-base extension assay
Frank J Steemers, Weihua Chang, Grace Lee, David L Barker, Richard Shen & Kevin L Gunderson

35  The nitrodibenzofuran chromophore: a new caging group for ultra-efficient photolysis in living cells
Atsuya Momotake, Nicolas Lindegger, Ernst Niggli, Robert J Barsotti & Graham C R Ellis-Davies
see news and views page 13

41  A single-molecule method for the quantitation of microRNA gene expression
Lori A Neely, Sonal Patel, Joanne Garver, Michael Gallo, Maria Hackett, Stephen McLaughlin, Mark Nadel, John Harris, Steve Gullans & Jenny Rooke
see news and views page 12

47  Imaging lipid bodies in cells and tissues using third-harmonic generation microscopy
Delphine Débarre, Willy Supatto, Ana-Maria Pena, Aurélie Fabre, Thierry Tordjmann, Laurent Combettes, Marie-Claire Schanne-Klein & Emmanuel Beaurepaire

55  Strategies for protein coexpression in Escherichia coli
Niraj H Tolia & Leemor Joshua-Tor