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**Cover picture**      Immunofluorescence image of a *Xenopus* tissue culture cell in anaphase stained with the monoclonal antibody 12A3. It shows phosphorylated polypeptides surrounding mitotic chromosomes. The false colour image was produced on a scanning laser confocal microscope. Yellow represents peak epitope concentrations. For further details see the paper by Stephen M. Dilworth in this issue. (Photograph by Tony Mills.)