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Cover picture: Comparison of an electron micrograph of an actin gel with a computer-generated model of the gel. The upper left panels show the computer-generated filaments and their arrangement in the model gel. The upper right panels show the computer-generated filaments bewhiskered with their auxiliary proteins. The bottom panel shows a thin section of the cuticular plate of a lizard hair cell with an inset of the computer-generated model. For details see the article in this issue by DeRosier and Tilney, pp. 2853–2867.

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Cover picture: Effect of okadaic acid microinjection into a single blastomere at the four-cell stage during early development of the starfish *Marthasterias glacialis*. The blastomere microinjected with the specific inhibitor of protein phosphatases type-1 and type-2A arrested with condensed chromosomes and an extended network of microtubules and M phase-promoting factor activity was kept at a constant high level. See related article in this issue by Picard et al., 3347-3354.