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Cover picture: A late prometaphase PtK_1 cell labeled with antibodies to spindle checkpoint component Mad2 (*pink*), tubulin (*green*), and the DNA dye DAPI (*blue*). Mad2 localization to kinetochores before their proper attachment to the spindle is thought to signal the inhibition of anaphase onset. See related article in this issue by Waters et al., 1181–1191.