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The stages of mitosis in kangaroo rat cells stained with antibodies to tubulin (green) and a DNA binding dye (blue). The top cell is in prophase, with condensed chromosomes and duplicated centromeres. The second row shows mitotic spindles and attached chromosomes in prometaphase, metaphase, and late anaphase. Below are two cells in late telophase with decondensing chromosomes. An overview starting on page 1643 introduces a special section that reviews the latest research on cell cycle control. [Image: L. Ma, R. King, M. Kirschner]

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