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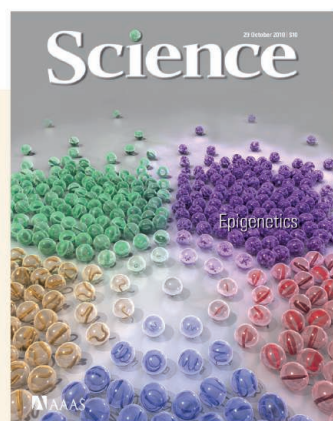
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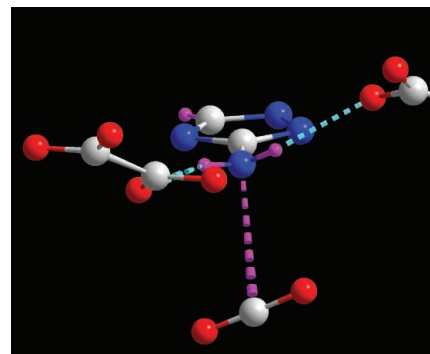
During development, a multicellular organism generates many different cell types (colored marbles) from a single progeny cell (clear marble in the center), yet all of the cells have nominally identical DNA sequences (and, therefore, the same genetic instruction sets). The maintenance and inheritance of these distinct cellular phenotypes is the basis of epigenetics (the prefix "epi-" is Greek for over or above), the subject of a special section beginning on page 611.

Image: *Chris Bickel/Science*

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New estimates of 200,000 deaths per year prompt shock and skepticism.

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RESEARCH ARTICLE: PI3K Signaling Through the Dual GTPase-Activating Protein ARAP3 Is Essential for Developmental Angiogenesis

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RESEARCH ARTICLE: Thermal Enhancement with Optically Activated Gold Nanoshells Sensitizes Breast Cancer Stem Cells to Radiation Therapy

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Local heating with gold nanoshells sensitizes mouse and human breast cancer stem cells to radiation treatment.

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Defining Epigenetics

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