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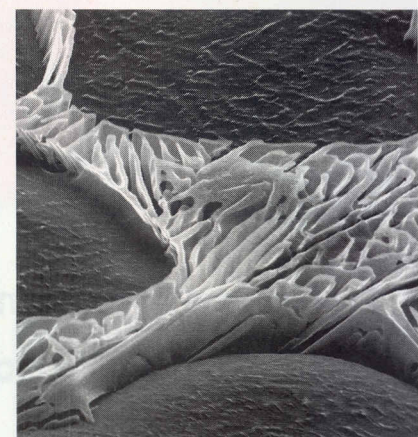
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COVER

Tumor-penetrating transport of cancer drugs is activated by the peptide iRGD (multicolored ring), which binds to integrin receptors (blue and yellow) in tumor blood vessels, and is subsequently cleaved. The cleaved peptide then binds to neuropilin-1 receptors (purple), activating a transport system that carries coadministered drugs, such as antibodies (green), deeper into tumor tissue. See page 1031.

Image: Peter Allen/University of California, Santa Barbara

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Mutation of a small noncoding RNA drives adaptive evolution in a social bacterium.

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- 994 **A Catalog of Reference Genomes from the Human Microbiome**
The Human Microbiome Jumpstart Reference Strains Consortium
Standardized protocols and methods are being established for large-scale sequencing of the microorganisms living on humans.

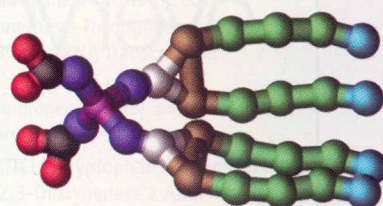
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Water molecules shift orientation between dissolved ions and the surrounding liquid by taking large, sudden steps.
- 1006 **Cooperativity in Ion Hydration**
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When salts dissolve in water, the separated cations and anions can still collectively impact the liquid structure.
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- 1009 **Self-Assembly of Janus Dendrimers into Uniform Dendrimersomes and Other Complex Architectures**
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