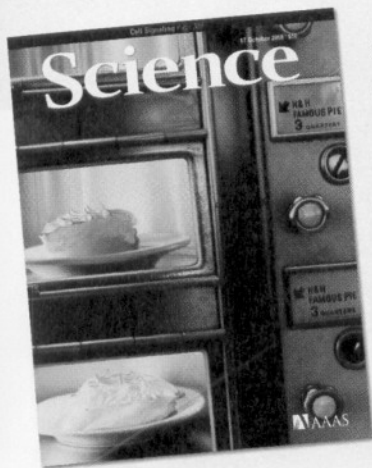




COVER

Detail from *The Last Automat III* by Max Ferguson. Sluggish operation of the reward circuitry in the brain may lead individuals to eat calorie-dense foods (such as pie) to try to compensate, placing them at risk for obesity. See page 449.

Image: The Last Automat III, 2003
(oil on panel); Max Ferguson/Bridgeman Art Library/Getty Images

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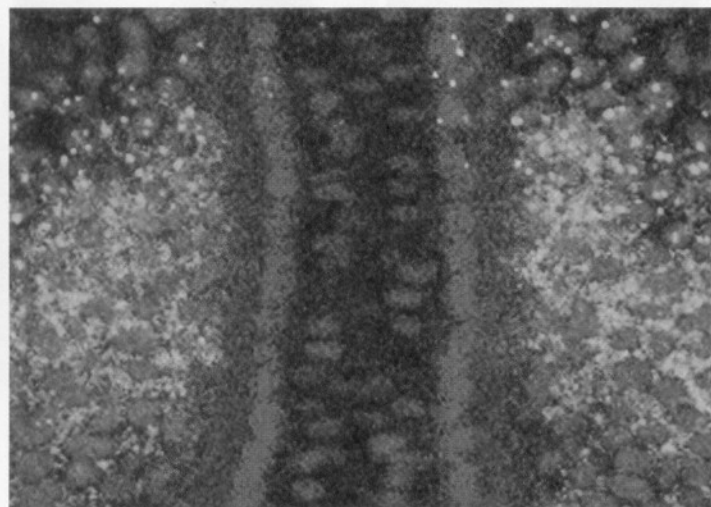
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Structure and Molecular Mechanism of a Nucleobase-Cation-Symport-1 Family Transporter

S. Weyand et al.

The structure of a membrane transporter in an open state suggests that in- and out-facing cavities reciprocally open and close coordinated by two transmembrane segments.

10.1126/science.1164440

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The Fermi Gamma-Ray Space Telescope Discovers the Pulsar in the Young Galactic Supernova Remnant CTA 1

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The Fermi Space Telescope has detected a gamma-ray pulsar associated with a young supernova remnant, implying that such stars may be unidentified gamma-ray sources.

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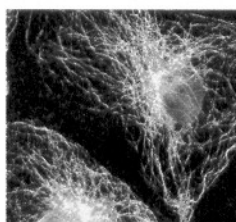
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GTP-bound tubulin is found at microtubule ends in living cells and also within microtubules, where it may promote repolymerization and avert microtubule collapse.

10.1126/science.1165401

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The MAGIC Collaboration

The MAGIC telescope has detected higher-energy, pulsed gamma rays from the Crab pulsar and a threshold suggesting that they are emitted from the outer magnetosphere.

10.1126/science.1164718

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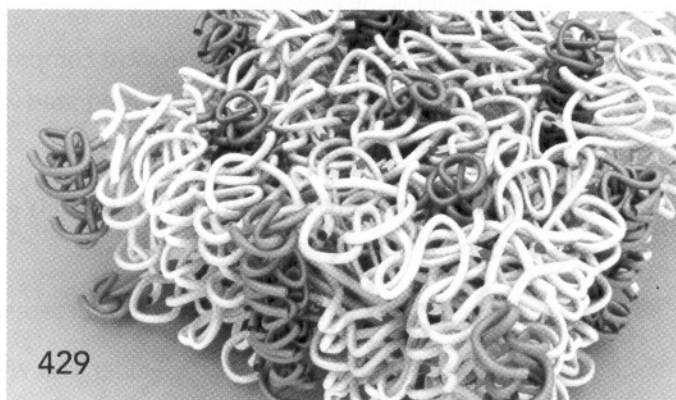
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