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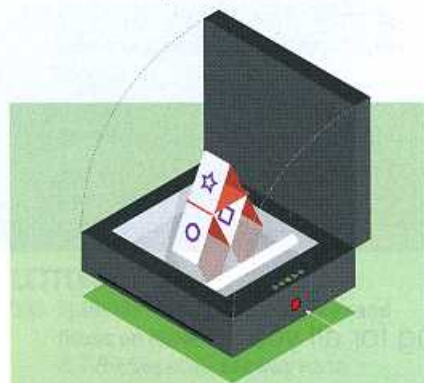
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The crystal structures of all four types of opioid receptor

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Brain-controlled robot grabs attention

People with paralysis use a neural interface to operate a mechanical arm

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318 GENETICS

Fish heads and human disease

A single gene in the 16p11.2 CNV regulates brain size in zebrafish

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Geomagnetism under scrutiny

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Four papers this week present the long-awaited, high-resolution crystal structures of the four known opioid receptors in ligand-bound conformations. These G protein-coupled receptors are targets for many drugs, including painkillers, antidepressants and anti-addiction medications. [PAGES 318, 321, 327, 395 & 400](#)



of Earth's liquid-iron core
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327 STRUCTURAL BIOLOGY Structure of the human κ -opioid receptor in complex with JDTic

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333 CARDIOVASCULAR BIOLOGY Cardiac angiogenic imbalance leads to peripartum cardiomyopathy

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343 PHYSICS Resolving the time when an electron exits a tunnelling barrier

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400 STRUCTURAL BIOLOGY Structure of the δ -opioid receptor bound to naltrindole

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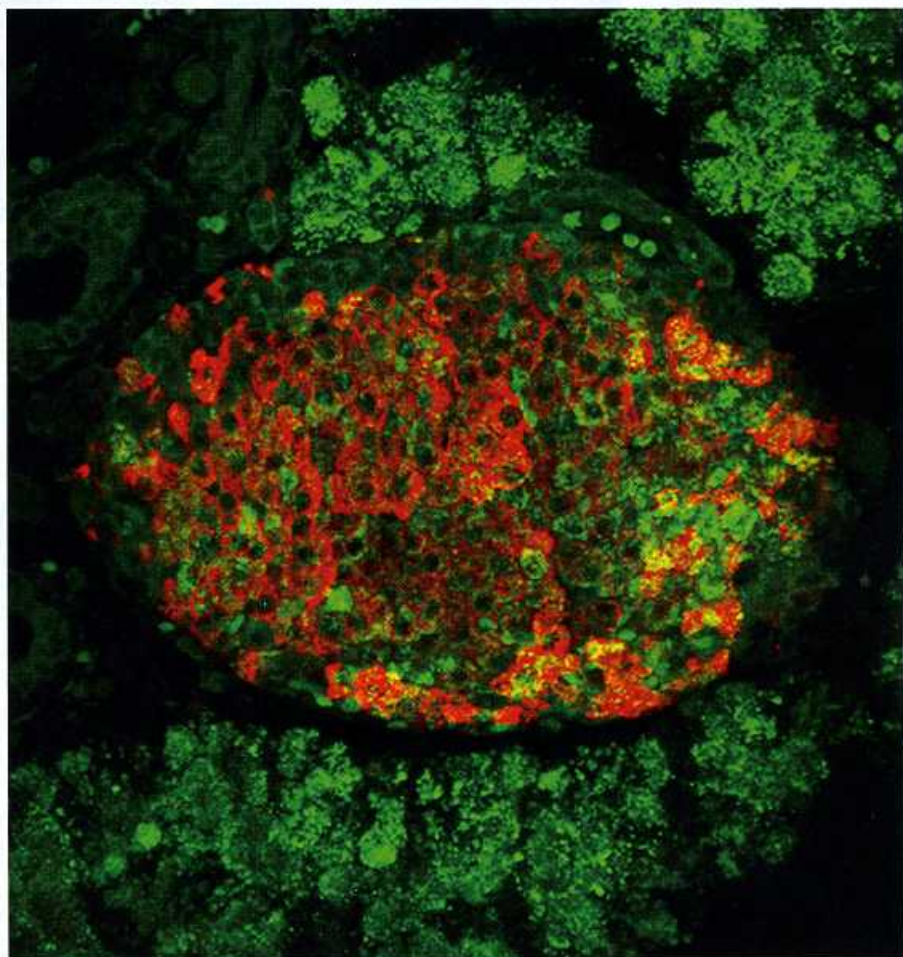
Cell savers
Protect beta cells, treat the disease

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Evidence points to gut bacteria influencing the course of diabetes



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