A vending machine filled with healthy substitutes for highly processed foods. Affluence paved the way for technology and medicines to combat infection, but even well-off nations have communities that are increasingly plagued by noncommunicable diseases, including cancer, type 2 diabetes, and Alzheimer’s disease. Addressing this huge prospective burden of long-term disease is a priority in the design of a new generation of preventative strategies, including healthier eating. See our special section beginning on page 1466.

*Image: Mike Kemp/Getty Images*
RESEARCH ARTICLE
1505 Neighborhood Effects on the Long-Term Well-Being of Low-Income Adults
J. Ludwig et al.
Moving from a poor to a less poor residential environment makes people feel good for a long time.
>> Perspective p. 1464

REPORTS
1511 Kepler-47: A Transiting Circumbinary Multiplanet System
J. A. Orosz et al.
Data from the Kepler space telescope reveal two small planets orbiting a pair of two low-mass stars.
1514 Quantum-Enhanced Optical-Phase Tracking
H. Yonezawa et al.
A quantum mechanical technique is developed to enhance the phase tracking of photons.
1517 Subtractive Patterning via Chemical Lift-Off Lithography
W.-S. Liao et al.
Oxidized silicone-rubber stamps can pattern bare regions on gold surfaces by removing hydroxyl-terminated alkane thiols.
>> Perspective p. 1459
1521 Pulsating Tubules from Noncovalent Macrocycles
Z. Huang et al.
Nanoscale tubes expand and contract with temperature changes through loose association of their constituent building blocks.
>> Perspective p. 1462
1526 A Crystalline Singlet Phosphinonitrene: A Nitrogen Atom–Transfer Agent
F. Dielmann et al.
A phosphorus fragment supports an otherwise uncoordinated nitrogen atom in a stable motif previously seen only with metals.
1529 A Fully Size-Resolved Perspective on the Crystallization of Water Clusters
C. C. Pradzynski et al.
Infrared spectroscopy of water clusters of increasing size indicates the onset of an ice-like structure at around 275 molecules.
1532 Structural Basis for Microtubule Binding and Release by Dynein
W. B. Redwine et al.
The molecular motor dynein uses conformational changes within its microtubule-binding domain to modulate track affinity.
1536 Specifying and Sustaining Pigmentation Patterns in Domestic and Wild Cats
C. B. Kaelin et al.
The genes specifying tabby cat coat patterns also affect big cats, including king cheetahs.
1541 Loss of the Tumor Suppressor BAP1 Causes Myeloid Transformation
A. Dey et al.
The de-ubiquitinating enzyme BAP1 is implicated in myelodysplastic syndrome.
>> Perspective p. 1463
1546 Unicellular Cyanobacterium Symbiotic with a Single-Celled Eukaryotic Alga
A. W. Thompson et al.
A nitrogen-fixing cyanobacterium that lacks photosynthesis and the tricarboxylic acid cycle possesses a tiny phytoplankton symbiont.
1550 Disruption of Reconsolidation Erases a Fear Memory Trace in the Human Amygdala
T. Agren et al.
Interfering with memory formation at the right moment removes the signature of fear memories in human brain imaging studies.
1553 Acute Gastrointestinal Infection Induces Long-Lived Microbiota-Specific T Cell Responses
T. W. Hand et al.
Enteric infections induce lasting adaptive immunity against commensal bacteria that may play a role in intestinal problems.
CONTENTS continued >>