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COVER
With her mother looking on, a woman in Hlabisa, South Africa, receives an HIV test as part of a survey by the Africa Centre for Health and Population Studies. In this issue, two Reports (pages 961 and 966) show that treating HIV-infected people reduces the risk of virus spread and increases life expectancy. A special News section (page 898) describes South Africa’s fight against the co-epidemics of HIV and tuberculosis.

Photo: Malcolm Linton
REPORTS
933 Ferromagnetic Quantum Critical Point in the Heavy-Fermion Metal YbNi$_4$(P$_{1-x}$As$_x$)$_2$
A. Steppke et al.
Precision low-temperature measurements reveal a divergence associated with quantum criticality in a ferromagnetic metal.

936 Living Crystals of Light-Activated Colloidal Surfers
J. Palacci et al.
Light-catalyzed reactions drive the far-from-equilibrium crystallization of colloids that couple to tracer particles.

940 Global Patterns of Groundwater Table Depth
Y. Fan et al.
Up to 32% of the global land area contains ecosystems that are influenced by shallow groundwater.

943 Direct Observations of Atmospheric Aerosol Nucleation
M. Kulmala et al.
Detailed aerosol measurements provide a consistent framework for the formation of particles from atmospheric gases.

947 Fruit Flies Medicate Offspring After Seeing Parasites
B. Z. Kacsoh et al.
Flies deposit their eggs in protective, alcohol-rich environments when parasitic wasps are around.

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928 Using the Earth as a Polarized Electron Source to Search for Long-Range Spin-Spin Interactions
L. Hunter et al.
Improved bounds on exotic spin-spin interactions were obtained from a study of polarized spins in Earth’s mantle.

933 Precise Maps of RNA Polymerase Reveal How Promoters Direct Initiation and Pausing
H. Kwok et al.
The promoter region of a gene regulates the enzyme complex that synthesizes RNA transcripts via initiation and pausing.

939 Little Emperors: Behavioral Impacts of China’s One-Child Policy
L. Cameron et al.
The increase in the number of only children in urban China over the past three decades has affected their psychology.

950 Highly Recurrent TERT Promoter Mutations in Human Melanoma
F. W. Huang et al.
TERT Promoter Mutations in Familial and Sporadic Melanoma
S. Horn et al.
A large fraction of human melanomas harbor mutations in sequences that regulate the expression of telomerase.

951 Increases in Adult Life Expectancy in Rural South Africa: Valuing the Scale-Up of HIV Treatment
J. Bor et al.
Adult life expectancy has increased by 11 years in rural KwaZulu-Natal since the 2004 public-sector scale-up of HIV treatment.

952 Minimal “Self” Peptides That Inhibit Phagocytic Clearance and Enhance Delivery of Nanoparticles
P. L. Rodriguez et al.
Cloaking nanoparticles with host-like peptides increases their lifetime enough to allow imaging of tumors.

953 Caspase-11 Protects Against Bacteria That Escape the Vacuole
Y. Aachoui et al.
Caspase-11 triggers cell death in response to bacteria that gain access to the cytosol of macrophages.

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