EDITORIAL
883 The GMO Stalemate in Europe
Louise O. Fresco

NEWS OF THE WEEK
888 A roundup of the week’s top stories

NEWS & ANALYSIS
893 North Korea’s Blast Poses Riddles and Challenges
>> Science Podcast
894 Congress Tries Again to Head Off Looming Helium Crisis
895 Warning Issued for Looming Data Gap From Fleet of Weather Satellites
896 How Sweet It Is: Genes Show How Bacteria Colonized Human Teeth
897 International Arbiter of Animal Names Faces Financial Woes

NEWS FOCUS
898 Reversal of Misfortunes: Treatment as Prevention, Real World Pulling South Africa Back From the HIV/AIDS Brink
>> Reports pp. 961 and 966

LETTERS
904 Old Trees: Extraction, Conservation Can Coexist
R. Aerts
Old Trees: Cultural Value
M. Blicharska and G. Mikusinski
Old Trees: Large and Small
J. Cecile et al.
Response
D. B. Lindenmayer et al.
China’s Little Emperors Show Signs of Success
X. Zhao et al.
>> Report p. 953
906 CORRECTIONS AND CLARIFICATIONS
906 TECHNICAL COMMENT ABSTRACTS

BOOKS ET AL.
907 The World Until Yesterday
J. Diamond, reviewed by W. G. Runciman
908 The World in the Model
M. S. Morgan, reviewed by C. Marchionni

POLICY FORUM
909 The Stability of Malaria Elimination
C. Chiyaka et al.

PERSPECTIVES
911 The Aerosol Nucleation Puzzle
M. O. Andreae
>> Report p. 943
912 Bacterial Escape Artists Set Afi re
M. Cemma and J. H. Brumell
>> Report p. 975
913 Integrative Structural Biology
A. B. Ward et al.
915 Preservation of Recalcitrant Seeds
C. Walters et al.
>> Science Podcast
917 Graphene Nanophotonics
F. J. García de Abajo
918 Food as a Hormone
K. K. Ryan and R. J. Seeley

SCIENCE PRIZE ESSAY
920 Mars Student Imaging Project: Real Research by Secondary Students
S. K. Boonstra and P. Christensen

CONTENTS continued >>

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

DEPARTMENTS
881 This Week in Science
884 Editors’ Choice
886 Science Staff
922 AAAS News & Notes
979 New Products
980 Science Careers

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**REPORTS**

933  **Ferromagnetic Quantum Critical Point in the Heavy-Fermion Metal YbNi$_4$(P$_{1-x}$As)$_2$**
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.

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

953  **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.

957  **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.

961  **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. >> Science Podcast

966  **High Coverage of ART Associated with Decline in Risk of HIV Acquisition in Rural KwaZulu-Natal, South Africa**
F. Tanser et al.
The risk of acquiring HIV is reduced in rural communities via large-scale delivery of antiretroviral therapy.

971  **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.

975  **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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