CONTENTS
29 MAY 2015 • VOLUME 348 • ISSUE 6238

PHOTO: (TOP LEFT) GEORGE STEINMETZ/CORBIS

973 The metamaterials fruits of labor

947 BLOCKING STRESS RESPONSE FOR BETTER MEMORY?
A drug that affects memory targets a constituent of a cellular stress response mechanism
By A. G. Hinnebusch
 REPORT P. 1027

968 TAMING THE TEMPERAMENTAL METAL TRANSFORMATION
An alloy can undergo millions of cycles of shape changes in response to stress jumps
By R. D. James
 REPORT P. 1004

970 A CLOSE VIEW OF PHOTOSYSTEM I
A high-resolution structure provides insight into solar energy conversion during photosynthesis
By R. Croce
 REPORT P. 989

971 EXPLOITING SLEEP TO MODIFY BAD ATTITUDES
Targeted memory reactivation of training-induced social counterbias during sleep
By G. B. Feld and J. Born
 REPORT P. 1013

973 OBTAINING OPTICAL PROPERTIES ON DEMAND
Reconfigurable metamaterials provide a flexible platform for nanophotonic technology
By N. I. Zheludev

974 OVERCOMING NEGLECT OF KINETOPLASTID DISEASES
Drug development offers hope for controlling diseases that affect millions of people worldwide
By G. Bilbe

976 EXPANDING THE ROLE OF METABOLISM IN T CELLS
A protein links mitochondrial energetics to T cell proliferation
By D. O’Sullivan and E. L. Pearce
 REPORT P. 995

977 FLEXIBLE GENE POOLS
Rapid genetic exchange leads to mosaic genomes in cyanobacterial populations
By M. M. Desai and A. M. Walczak
 REPORT P. 1019

NEWS

IN BRIEF
948 Roundup of the week’s news

IN DEPTH
952 BRAZIL CUTS RED TAPE STIFLING BIODIVERSITY STUDIES
New law eases draconian measures that brought bioprospecting to a standstill
By H. Escobar

953 READING THE TEA LEAVES FOR EFFECTS OF CLIMATE CHANGE
Cloudy forecast for crops cherished for their complex flavors
By C. Larson

954 The endangered palates list
By C. Larson
 REPORT PODCAST

954 REPORT FINDS MISCONDUCT BY SURGEON
Papers omitted data on patient complications, investigator finds
By G. Vogel

956 DEBATE SHARPENS OVER PROPOSED CRITERIA FOR NSF GRANTS
Supporters say new laws would bolster national priorities; critics see political interference
By J. Mervis

FEATURES

958 IS MEASLES NEXT?
Some disease fighters want to eradicate the most contagious virus of all. But does a world still fighting polio have the stomach to try?
By L. Roberts

962 In Vietnam, an anatomy of a measles outbreak
By L. Roberts

INSIGHTS

PERSPECTIVES

964 CONGRESS’S ATTACKS ON SCIENCE-BASED RULES
Proposed laws based on false premises could undermine science for the public interest
By A. A. Rosenberg et al.