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Cover
Can science do more to help the world’s poor? India is a test bed for innovative approaches to poverty reduction. India’s wheat crop is critical to the nation’s food security. Farmers across the country now use their cell phones to send pest sightings and growing conditions to the Directorate of Wheat Research in Karnal, headed by Indu Sharma (pictured). See the Editorial on page 1015 and the News story on page 1032.
Photo: Pallava Bagla
An Adaptive Response to Uncertainty. 

Contrast effects, in which current behavior depends on past conditions, may be an adaptive response to uncertainty.

Tracking Individuals Shows Spatial Fidelity Is a Key Regulator of Ant Social Organization. 

D. P. Mersch et al. 

Monitoring of individually tagged worker ants revealed three distinct groups that greatly differ in behavior.

Molecular Basis of Age-Dependent Vernalization in Cardamine flexuosa. 

C.-M. Zhou et al. 

MicroRNAs regulate perennial flowering.

A Tumor Suppressor Complex with GAP Activity for the Rag GTPases That Signal Amino Acid Sufficiency to mTORC1. 

L. Bar-Peled et al. 

A protein complex identified as a negative regulator of the mTORC1 protein kinase complex has tumor suppressor functions.

Impaired α-TTP-PIPs Interaction Underlies Familial Vitamin E Deficiency. 

N. Kono et al. 

Phosphatidylinositol phosphates may play a role in lipid-transfer protein–mediated vitamin E efflux from hepatocytes.

A Conserved Mechanism for Centromeric Nucleosome Recognition by Centromere Protein CENP-C. 

H. Kato et al. 

The structural links between the chromosomal centromere protein CenH3 and the kinetochore protein CENP-C are determined.

Structure of RSV Fusion Glycoprotein Trimer Bound to a Prefusion-Specific Neutralizing Antibody. 

J. S. Mclellan et al. 

The prefusion conformation of respiratory syncytial virus protein F has been trapped by a neutralizing antibody.