

## NEWS

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▶ J. YUN ET AL. 10.1126/science.aaa5004

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**639 THE EVOLUTION OF EVERYTHING**

*By M. Ridley, reviewed by R. Gawne*

**639 SPOOKY ACTION AT A DISTANCE**

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**640 MAKING SENSE OF THE TROUBLES AT NEON**

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**641 ONLINE BUZZ: DISASTER PREPAREDNESS**

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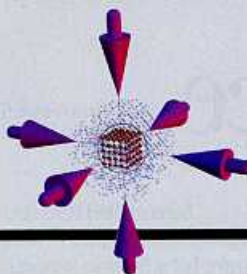
Eradicating polio *By Anthony Adams and David M. Salisbury*

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Microbiomes in light of traits: A phylogenetic perspective  
*J. B. H. Martiny et al.*

REVIEW SUMMARY; FOR FULL TEXT:  
[dx.doi.org/10.1126/science.aac9323](http://dx.doi.org/10.1126/science.aac9323)  
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### RESEARCH ARTICLES

#### 650 METABOLIC HEALTH

Pancreatic  $\beta$  cell enhancers regulate rhythmic transcription of genes controlling insulin secretion  
*M. Perelis et al.*

RESEARCH ARTICLE SUMMARY; FOR FULL TEXT:  
[dx.doi.org/10.1126/science.aac4250](http://dx.doi.org/10.1126/science.aac4250)  
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Disruption of histone methylation in developing sperm impairs offspring health transgenerationally  
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RESEARCH ARTICLE SUMMARY; FOR FULL TEXT:  
[dx.doi.org/10.1126/science.aab2006](http://dx.doi.org/10.1126/science.aab2006)  
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A cucurbit androecy gene reveals how unisexual flowers develop and dioecy emerges  
*A. Boualem et al.*

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## MAVEN at Mars



### INTRODUCTION

643 MAVEN explores the martian upper atmosphere  
*B. M. Jakosky*

### RESEARCH ARTICLE ABSTRACTS

MAVEN observations of the response of Mars to an interplanetary coronal mass ejection  
*B. M. Jakosky et al.*

Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability  
*S. Bougher et al.*

Discovery of diffuse aurora on Mars  
*N. M. Schneider et al.*

### REPORT ABSTRACT

Dust observations at orbital altitudes surrounding Mars  
*L. Andersson et al.*

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### ON THE COVER



Paths of ions escaping Mars' atmosphere due to solar wind radiation. The energy of the particles is illustrated by a brown-to-white gradient. The most energetic ions (white) create a plume, seen at the top. See page 643. For more on the process behind creating this data visualization, see <http://scim.ag/maven-cover>. *Data visualization: Valerie Altounian/Science; Data: X. Fang and the MAVEN science team*

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