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COVER

Clouds pass over Kenya's Lake Magadi, where geologists are drilling a core to gather detailed climate data from the ancient lake bed. Data on past climates are vital for researchers seeking to understand how anthropogenic climate change will affect Earth's ecosystems and species, including its effects on infectious diseases and food security. See the special section beginning on page 472.

Photo: © Martin Harvey/Alamy

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- 525 **A Role for SIRT2-Dependent Histone H3K18 Deacetylation in Bacterial Infection**
H. A. Eskandarian et al.

The bacterial pathogen *Listeria monocytogenes* exploits histone modifications to reprogram its host.

Research Article Summary; for full text: <http://dx.doi.org/10.1126/science.1238858>

- 526 **The Evolution of Social Monogamy in Mammals**

D. Lukas and T. H. Clutton-Brock

Social monogamy developed in mammalian species where males could not defend access to multiple females.

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- 537 **Detection of a Spinning Object Using Light's Orbital Angular Momentum**

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- 540 **Efficient Generation of H₂ by Splitting Water with an Isothermal Redox Cycle**

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- 546 **Two Dimensions of Value: Dopamine Neurons Represent Reward But Not Aversiveness**

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- 565 **Low-Pass DNA Sequencing of 1200 Sardinians Reconstructs European Y-Chromosome Phylogeny**

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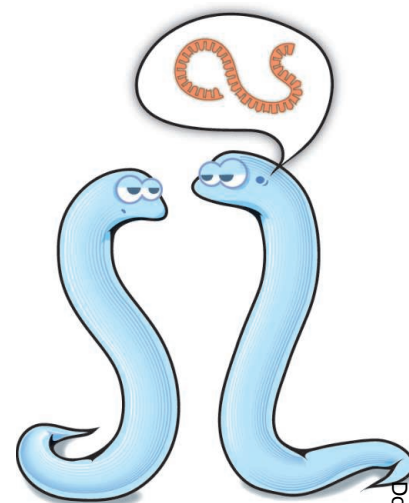
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- 569 **The Microbial Metabolites, Short-Chain Fatty Acids, Regulate Colonic T_{reg} Cell Homeostasis**

P. M. Smith et al.

Bacterial fermentation products regulate the number and function of regulatory T cells in the mouse colon.

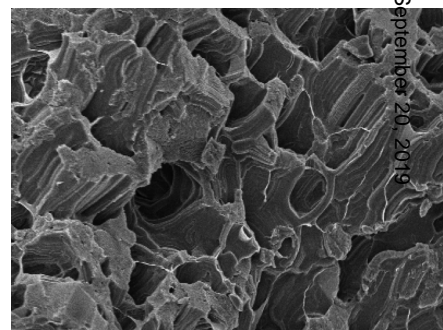
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