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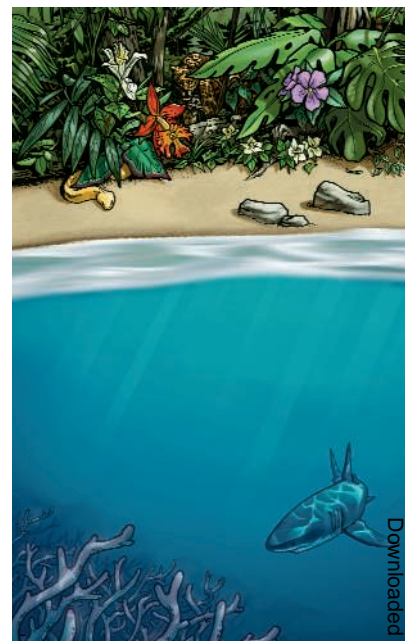
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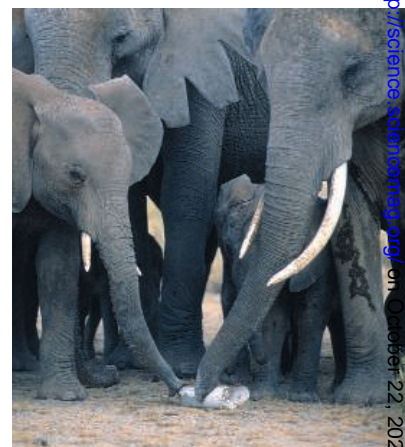
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COVER

Substances deposited by a mother bird into her eggs influence how intensely her offspring beg for food after hatching. In canaries, these substances are effectively a prenatal signal of parental generosity. In contrast to the common assumption, they function primarily to serve the evolutionary interests of the offspring rather than the mother. See page 1373.

Photo: Fernando Trabanco

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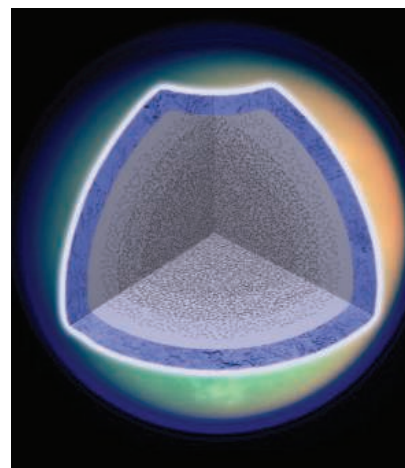
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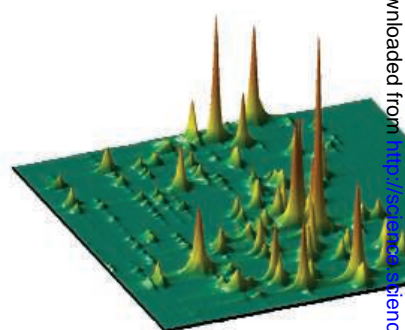
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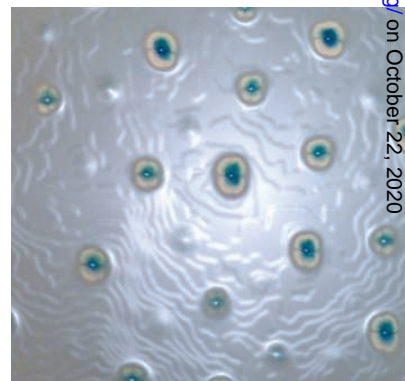
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Caspase-Dependent Conversion of Dicer Ribonuclease into a Death-Promoting Deoxyribonuclease

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10.1126/science.1182374

Analysis of Genetic Inheritance in a Family Quartet by Whole-Genome Sequencing

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Genomic sequencing of an entire family reveals the rate of spontaneous mutations in humans and identifies disease genes.
10.1126/science.1186802

A Peroxidase/Dual Oxidase System Modulates Midgut Epithelial Immunity in *Anopheles gambiae*

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Detection of a Large-Scale Structure of Intracluster Globular Clusters in the Virgo Cluster

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A Fast Soluble Carbon-Free Molecular Water Oxidation Catalyst Based on Abundant Metals

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10.1126/science.1185372

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RESEARCH ARTICLE: Pin1 and PKM ζ Sequentially Control Dendritic Protein Synthesis

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PERSPECTIVE: PINing for Things Past

T. C. Sacktor

Memory storage requires the inhibition of a peptidyl-prolyl isomerase to enable synthesis of the kinase PKM ζ .

REVIEW: Stress-Activated Cap'n'Collar Transcription Factors in Aging and Human Disease

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NETWATCH: PhosphoSitePlus

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NETWATCH: The CASpase Substrate dataBASE Homepage (CASBAH)

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Recovery Act funding will boost a field focused on health care costs and quality.

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COMMENTARY: The Road We Must Take—Multidisciplinary Team Science

M. L. Disis and J. T. Slattery

Solutions to today's complex health problems will require multidisciplinary innovative thinking and collaboration.

PERSPECTIVE: Bladder Cancer—Optimal Application of Preclinical Models to Suitable Translational Questions

D. Raghavan

New reagents tested in bladder cancer xenografts allow for better economy and focus in clinical cancer trials.



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Monkeys reveal genetics advantage against HIV.

RESEARCH ARTICLE: MHC Heterozygote Advantage in Simian Immunodeficiency Virus-Infected Mauritian Cynomolgus Macaques

S. L. O'Connor et al.

Heterozygote advantage in macaque monkeys reveals that HIV vaccine should elicit broad CD8⁺ T cell responses.

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