

Science

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Biología
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004



INTI-Extensión y Desarrollo
División Biblioteca

1245

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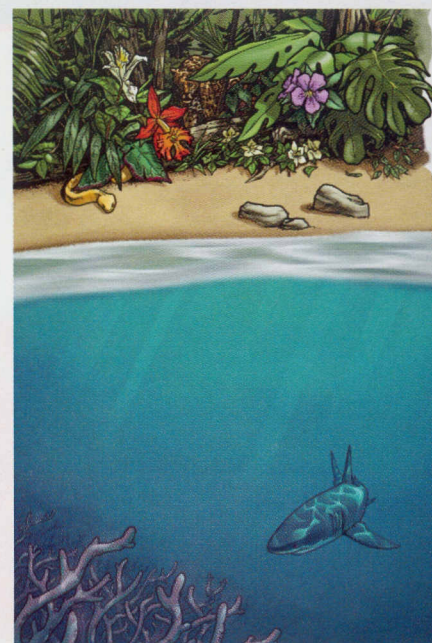
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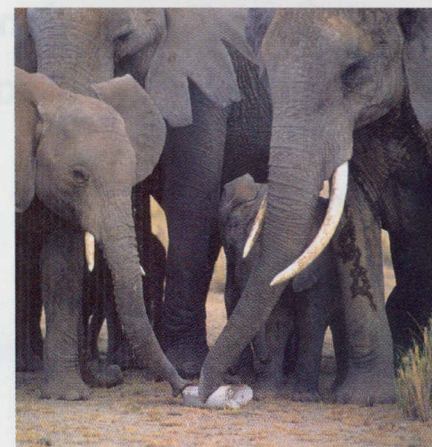
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Substances deposited by a mother bird into her eggs influence how intensely her offspring beg for food after hatching. In canaries, these substances are effectively a prenatal signal of parental generosity. In contrast to the common assumption, they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

Photo: Fernando Trabanco

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- 1369** Plumage Color Patterns of an Extinct Dinosaur
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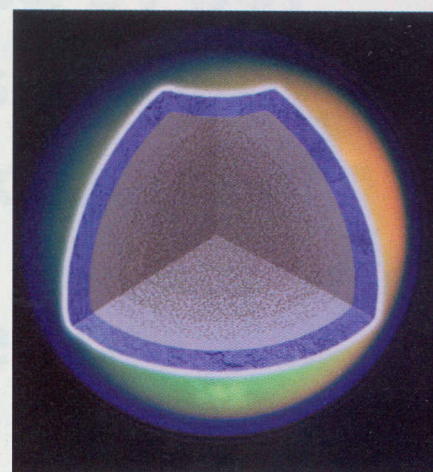
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Skin wounds can be repaired by primitive stem cells into fully differentiated tissue, complete with hairs and sebaceous glands.

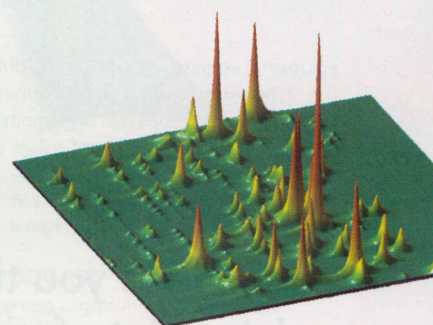
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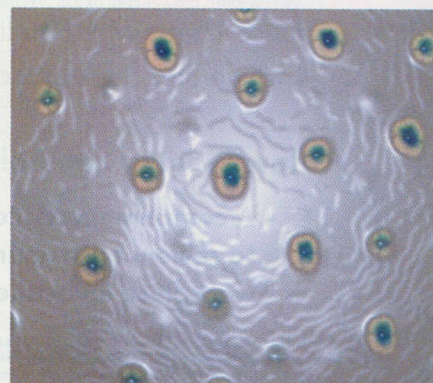
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SCIENCEONLINE

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

A. Nakagawa et al.

An enzyme that chops up RNA can be switched to DNA fragmentation and can trigger programmed cell death in worms.
10.1126/science.1182374

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

J. C. Roach et al.

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*

S. Kumar et al.

Bonding between cell-surface proteins forms a physical barrier in mosquito guts to prevent microbe invasion.
10.1126/science.1184008

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

M. G. Lee et al.

Extensive regions of mass have been located between the galaxies of the Virgo cluster.
10.1126/science.1186496

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

Q. Yin et al.

Bulky polytungstate ligands stabilize a cobalt-based catalyst highly active for splitting water.
10.1126/science.1185372

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Highlights From Our Daily News Coverage

For Pregnant Mice, Eating Matters More for Their Sons

Expectant moms' bad eating habits may hurt boys more than girls.

And the Winners of Our Blogging Contest Are ...

Science picks its favorites from our supplementary coverage of the 2010 AAAS annual meeting.

Pain's in the Genes

A subtle genetic variant seems to dictate how much pain people feel.

SCIENCESIGNALING

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

P. R. Westmark et al.

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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The oxidative stress response is an attractive target for treating human diseases and extending the healthy life span.

NETWATCH: PhosphoSitePlus

Explore a database of posttranslational protein modifications; in Protein Databases.

NETWATCH: The CAspase Substrate dataBase Homepage (CASBAH)

Search and browse a collection of caspase substrates; in Protein Databases.

SCIENCECAREERS

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Free Career Resources for Scientists

Audacity, Part 4: Taking Liberties With Research Grants?

A. Sasso

Should you propose safe research and then use the money for riskier work?

New Opportunities and Jobs Coming in Comparative Effectiveness Research

K. Hede

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

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Integrating Medicine and Science

COMMENTARY: The Road We Must Take—Multidisciplinary Team Science

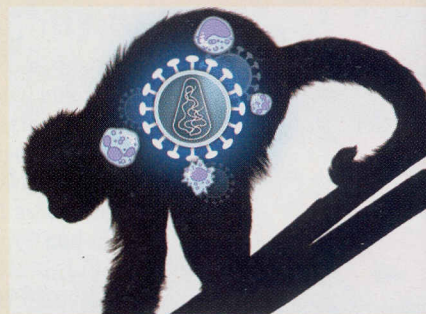
M. L. Disis and J. T. Slattery

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.



SCIENTETRANSLATIONAL MEDICINE

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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