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Science

Depression

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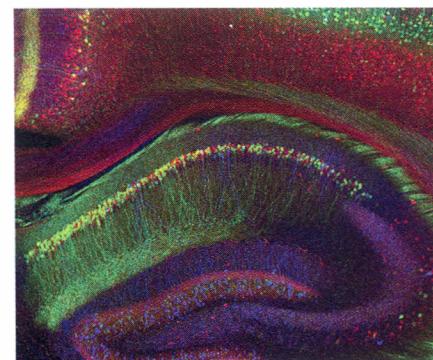
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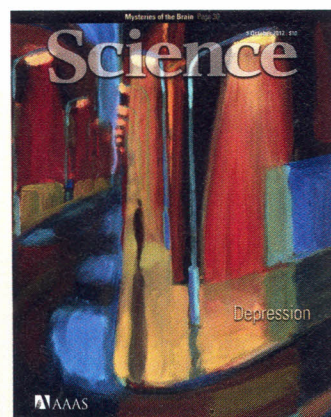
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A solitary figure walks through a somber urban landscape. The permeating tone of sadness in this painting gives an impression of life with major depressive disorder, whereas the light punctuating the scene hints at hope. Because depression has become a serious problem in societies around the world, it is crucial to investigate the basic mechanisms underlying this disease and to develop effective prevention and therapies. See the special section beginning on page 67. For the story behind the cover, go to <http://scim.ag/cov6103>.

Image: "Midnight Stroll" by Michael Bishop, <http://mbishopart.artweb.com/>

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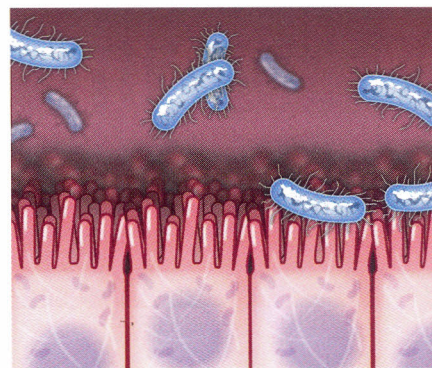
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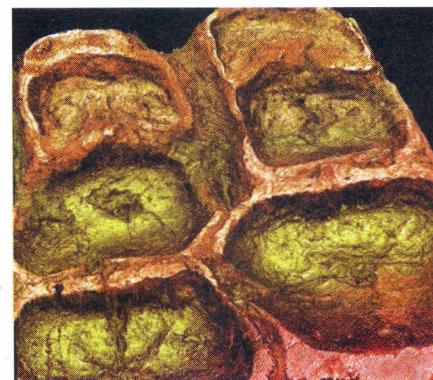
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SCIENCEEXPRESS

www.sciencexpress.org
Publication Ahead of Print

Efficient Hybrid Solar Cells Based on Meso-Superstructured Organometal Halide Perovskites

M. M. Lee et al.

10.1126/science.1228604

Offspring from Oocytes Derived from in vitro Primordial Germ Cell-like Cells in Mice

K. Hayashi et al.

10.1126/science.1226889

IRE1 α Cleaves Select microRNAs During ER Stress to Derepress Translation of Proapoptotic Caspase-2

J.-P. Upton et al.

10.1126/science.1226191

Elfn1 Regulates Target-Specific Release Probability at CA1-Interneuron Synapses

E. L. Sylwestrak and A. Ghosh

10.1126/science.1222482

Intramitochondrial Transport of Phosphatidic Acid in Yeast by a Lipid Transfer Protein

M. Connerth et al.

10.1126/science.1225625

SCIENCE NOW

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Highlights From Our Daily News Coverage

For Some Primates, Survival of the Nicest Personality helps forge bonds and may extend survival in baboons.

http://scim.ag/Primates_Survival

Spread of Lethal Salmonella in Africa Linked to HIV

A deadly strain may have ridden the coattails of the AIDS epidemic.

http://scim.ag/Salmonella_Africa

Hermit Crabs Pass Acid Test

A toy octopus can teach us about acidification's impact on deep-sea crustaceans.

<http://scim.ag/Acid-Test>

SCIENCE SIGNALING

www.sciencesignaling.org
The Signal Transduction Knowledge Environment
2 October issue: <http://scim.ag/ss100212>

RESEARCH ARTICLE: The Rho Exchange Factors Vav2 and Vav3 Control a Lung Metastasis-Specific Transcriptional Program in Breast Cancer Cells

C. Citterio et al.

PERSPECTIVE: Rho GEFs and Cancer—Linking Gene Expression to Metastasis

L. Barrio-Real and M. G. Kazanietz

Two Vav isoforms could be targeted to prevent breast tumors from metastasizing to the lung.

RESEARCH ARTICLE: An Interaction Between BZR1 and DELLAs Mediates Direct Signaling Crosstalk Between Brassinosteroids and Gibberellins in *Arabidopsis*

Q.-F. Li et al.

DELLA transcription factors mediate crosstalk between two pathways that control plant growth.

PERSPECTIVE: HCN1 Channels—A New Therapeutic Target for Depressive Disorders?

M. M. Shah

Inhibition of hyperpolarization-activated cyclic nucleotide-gated channels may relieve depression.

PERSPECTIVE: Factors Contribute to Depression and Its Comorbid Conditions

H. Anisman and S. Hayley

Manipulation of pro- and anti-inflammatory mediators may improve treatments for depression.

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PRESENTATION: Circadian Rhythms of Glucocorticoid Hormone Actions in Target Tissues—Potential Clinical Implications

T. Kino

The circadian clock helps to determine tissue sensitivity to glucocorticoids.

PRESENTATION: Primary Generalized Glucocorticoid Resistance and Hypersensitivity—The End-Organ Involvement in the Stress Response

E. Charmandari

The distinct activities of glucocorticoid receptor variants may affect glucocorticoid therapy.

SCIENCE TRANSLATIONAL MEDICINE

www.sciencetranslationalmedicine.org
Integrating Medicine and Science
3 October issue: <http://scim.ag/stm100312>

EDITORIAL: The Battlefield of Rare Diseases—Where Uncommon Insights Are Common

W. A. Gahl

Rare disease research provides insights about the pathogenesis of common disorders.

RESEARCH ARTICLE: A Translational Paradigm for the Preclinical Evaluation of the Stroke Neuroprotectant Tat-NR2B9c in Gyrencephalic Nonhuman Primates

D. J. Cook et al.

Primates treated with a neuroprotectant after stroke showed outcomes that mimicked those of a human trial.

RESEARCH ARTICLE: Prevention of Alveolar Destruction and Airspace Enlargement in a Mouse Model of Pulmonary Lymphangioleiomyomatosis (LAM)

E. A. Goncharova et al.

Rapamycin and simvastatin treatment of a mouse model of pulmonary lymphangioleiomyomatosis is described.

RESEARCH ARTICLE: Rapid Whole-Genome Sequencing for Genetic Disease Diagnosis in Neonatal Intensive Care Units

C. J. Saunders et al.

Rapid whole-genome sequencing of neonates can shorten time to disease diagnosis and counseling.



SCIENCE SIGNALING
Metastasizing to the lung.

COMMENTARY: "What Great Creation"

A. M. Clyne and G. A. FitzGerald

An early-career engineer interviews a premier translational scientist about merging engineering and medicine.

SCIENCE CAREERS

www.sciencereers.org/career_magazine
Free Career Resources for Scientists
<http://scim.ag/ScienceCareers5October2012>

Gauging Graduates' Gloom

M. Price

Graduate students' pressures make them especially prone to depression, but small changes can help.

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Taken for Granted: America's Real Jobs Gap

B. L. Benderly

A new book solves the mystery of America's employment situation and tells how to fix it.

A Career for Two, With Empathy

E. Pain

A husband-and-wife team studies the brain areas that allow us to feel what others feel.

SCIENCE PODCAST

www.sciencemag.org/multimedia/podcast
Free Weekly Show for 5 October 2012

Depression resilience, properties of dinosaur teeth, mysteries of the brain, and more.

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