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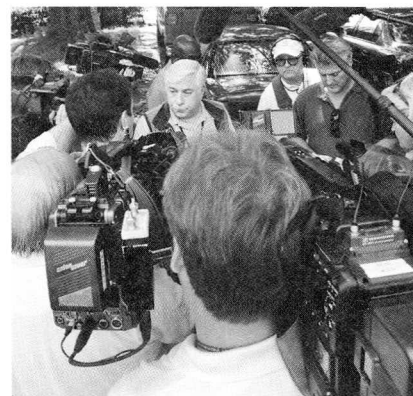
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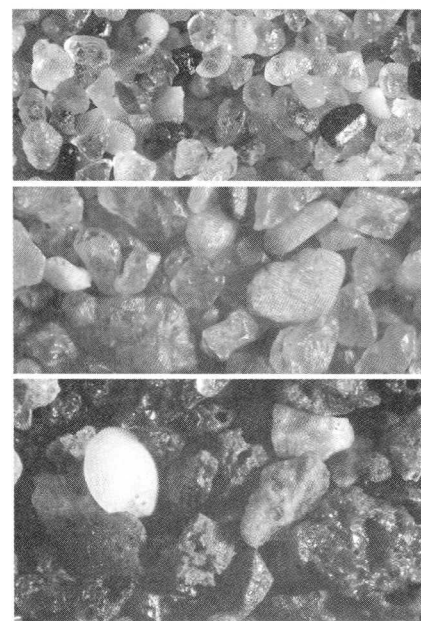
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COVER

Gray and black wolf pups howling in Wolf Park in Battle Ground, Indiana. In North American gray wolves (*Canis lupus*), a mutation that alters coat color from brownish-gray to black, which derives from past hybridization with domestic dogs, is increasing in forested habitats because of positive selection. See page 1339.

Image: *Monty Sloan*

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- 1313 Functional Proteomics Identify Cornichon Proteins as Auxiliary Subunits of AMPA Receptors**
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- 1327 Implications of a VLBI Distance to the Double Pulsar J0737-3039A/B**
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- 1329 Phase-Sensitive Observation of a Spin-Orbital Mott State in Sr_2IrO_4**
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- 1339 Molecular and Evolutionary History of Melanism in North American Gray Wolves**
T. M. Anderson et al.
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- 1350 Sensing Chromosome Bi-Oriented by Spatial Separation of Aurora B Kinase from Kinetochore Substrates**
D. Liu et al.

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- 1357 A Kinase-START Gene Confers Temperature-Dependent Resistance to Wheat Stripe Rust**
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- 1360 A Putative ABC Transporter Confers Durable Resistance to Multiple Fungal Pathogens in Wheat**
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Several specific genes in wheat confer resistance to common fungal diseases.
>> *Perspective p. 1301*

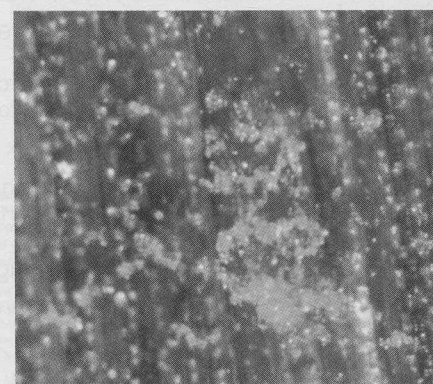
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SCIENCEONLINE

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Leucine-Rich Repeat Protein Complex Activates Mosquito Complement in Defense Against *Plasmodium* Parasites

M. Povelones et al.

A family of molecules, apparently unique to mosquitoes, binds to invading parasites and initiates innate immune responses.

10.1126/science.1171400

Rare Variants of *IFIH1*, a Gene Implicated in Antiviral Responses, Protect Against Type 1 Diabetes

S. Nejentsev et al.

Deep resequencing revealed rare alleles that were significantly associated with protection from diabetes.

10.1126/science.1167728

Exomic Sequencing Identifies *PALB2* as a Pancreatic Cancer Susceptibility Gene

S. Jones et al.

Mutations in a gene previously implicated in breast cancer are a contributing factor in hereditary pancreatic cancer.

10.1126/science.1171202

CD24 and Siglec-10 Selectively Repress Tissue Damage-Induced Immune Responses

G.-Y. Chen et al.

A signaling pathway involving an immune protein protects cells against the potentially fatal immune response induced by tissue damage.

10.1126/science.1168988

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A Better Way to Make Embryonic-Like Stem Cells

"Jumping genes" may improve efficiency and safety of creating therapeutic cells.

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Single amino acid change helps explain the first step in smoking addiction.

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Bottled water guzzles up to 2000 times more energy than tap water.

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RESEARCH ARTICLE: Odor Coding by a Mammalian Receptor Repertoire

H. Saito et al.

Identification of mammalian olfactory receptor agonists enables development of a predictive model of receptor activation.

PERSPECTIVE: How Perfect Can Protein Interactomes Be?

E. D. Levy et al.

Evolutionary noise in protein-protein interactions implies that not all interactions must be functional.

PODCAST

J. Schlessinger and A. M. VanHook

Autophosphorylation events that control the activity of the FGF receptor are kinetically controlled and disrupted by a mutation associated with glioblastoma.

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Find out what DARC, SFK, and QTL mean in the world of cell signaling.

SCIENCE CAREERS

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Free Career Resources for Scientists

Redefining Tenure at Medical Schools

C. Wald

Fewer faculty jobs are tenure-track in academic medical research.

Taken for Granted: Shovel-Ready Science

B. L. Benderly

What does the stimulus windfall mean for the scientific labor market?

Can You Be Too Ready for Research Independence?

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The National Institutes of Health's K99/R00 award is a great success—maybe too great a success.

March 2009 Funding News

J. Fernández

Learn about the latest in research funding, scholarships, fellowships, and internships.

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ORIGINSBLOG

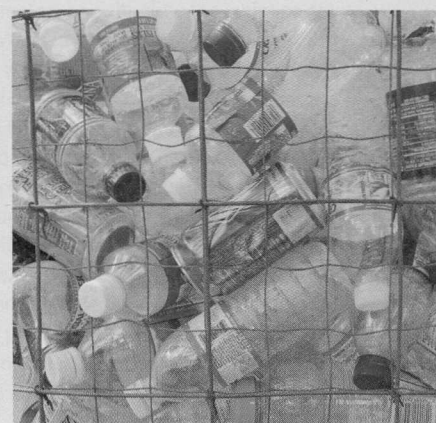
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A History of Beginnings

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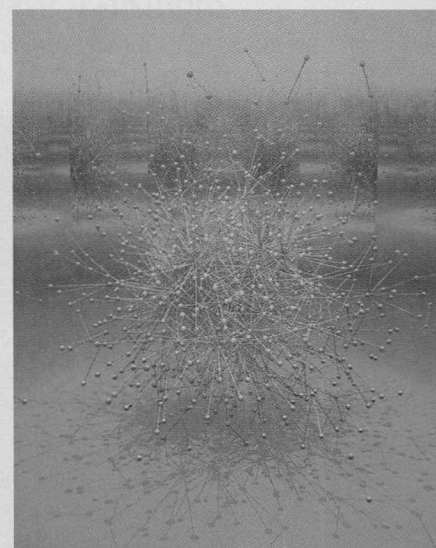
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