Tissue-specific knockout created

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The underside of Europe

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Stimulation of GAL4 Derivative Binding to Nucleosomal DNA by the Yeast SWI/SNF Complex
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An eyespot (2 mm across) on a *Precis coenia* (buckeye) butterfly wing. The size, color, and number of eyespots and other patterns are determined in the developing wing imaginal disc (a field of undifferentiated cells in the caterpillar) several days before the adult pattern appears. Genes involved in insect wing formation are expressed in various patterns in butterflies to create detailed patterns within the butterfly wings. See page 109 and the Perspective on page 44. [Photo: Steve Paddock]

**REPORTS**

*Chemical Signature of the Superconducting Phase in the Nd-Ce-Cu-O System*  

*Size-Specific Infrared Spectra of Benzene-(H₂O)ₙ Clusters (n = 1 through 7): Evidence for Noncyclic (H₂O)ₙ Structures*  
R. N. Pribble and T. S. Zwie

*Deep Seismic Expression of an Ancient Plate Boundary in Europe*  
A. Zielhuis and G. Nollet

*Pseudotachylytes Generated During Seismic Faulting and Eclogitization of the Deep Crust*  
H. Austrheim and T. M. Boundy

*Magnetic Susceptibility of Molecular Carbon: Nanotubes and Fullerite*  

*Water on Mars: Clues from Deuterium/Hydrogen and Water Contents of Hydrous Phases in SNC Meteorites*  
L. L. Watson, I. D. Hutcheon, S. Epstein, E. M. Stolper

*Identification of the Target of a Transcription Activator Protein by Protein-Protein Photocrosslinking*  
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*Mediation of Epstein-Barr Virus EBNA2 Transactivation by Recombination Signal-Binding Protein Jx*  
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*Magnetoconeception in Honeybees C. y. Hsu and C.-W. Li*

*Ecosystem Response to Solar Ultraviolet-B Radiation: Influence of Trophic-Level Interactions*  
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*Temperature and Water Viscosity*  
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*Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting*  
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*Regulation of MHC Class II Expression by Interferon-γ Mediated by the Transactivator Gene CIITA*  
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*Pattern Formation and Eyespot Determination in Butterfly Wings*  
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*Changes of Induction and Competence During the Evolution of Vulva Development in Nematodes*  
R. J. Sommer and P. W. Sternberg

*Suspension Feeding of Nematodes*  
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**TECHNICAL COMMENTS**

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*Hybrid Zones and Sexual Selection*  
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**Indicates accompanying feature**
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