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Chesapeake Bay Impact Crater Confirmed 1672
Cell Biology: Two Major Signaling
Pathways Meet at MAP-Kinase

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Mature oocyst stage (40 to 60 μm) of a human malaria parasite on the midgut wall of a wild-caught, blood-fed anopheline mosquito from Madang, Papua New Guinea. Measurement of genetic heterozygosity of this stage reveals that the malaria parasite is highly inbred in Papua New Guinea, which has significant implications for the spread of drug-resistant parasite strains. See page 1709 and the related News story on page 1670. [Image: Courtesy of P. Graves, Department of Preventive Medicine and Biometrics, University of Colorado]

### REPORTS

**Condensation of Methane, Ammonia, and Water and the Inhibition of Convection in Giant Planets**

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**An Improved Procedure for El Niño**

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**Synchrotron X-ray Study of Iron at High Pressure and Temperature**

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**Excitation of Spirals and Chiral Convection**

R. E. Ecke, Y. Hu, R. Mainieri, G. Ahlers

**Laser Separation of Geometrical Isomers**

C. Desfrançois, H. Abdoul-Carime, C. P. Schulz, J. P. Schermann

**Mating Patterns in Malaria Parasite**


**Ethylene Insensitivity Confounded by Arabidopsis ERS Gene**

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**Convergent Domestication of Cereal Crops by Independent Mutations at Corresponding Genetic Loci**


**Activation of a G Protein Complex**

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**Requirement for MAP Kinase (ERK2) Activity in Interferon α- and Interferon β-Stimulated Gene Expression Through STAT Proteins**


**Imaging Elementary Events of Calcium Release in Skeletal Muscle Cells**

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**Activation of Dual T Cell Signaling Pathways by the Chemokine RANTES**

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**Regulation of Hippocampal Transmitter Release During Development and Long-Term Potentiation**

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**Regulated Subcellular Distribution of the NR1 Subunit of the NMDA Receptor**

M. D. Ehlers, W. G. Tingley, R. L. Huganir

**Domain Interaction Between NMDA Receptor Subunits and the Postsynaptic Density Protein PSD-95**

H.-C. Kornau, L. T. Schenker, M. B. Kennedy, P. H. Seeburg

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