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RESEARCH ARTICLE

Calcium release in skeletal muscle
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]

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**An Improved Procedure for El Niño Forecasting: Implications for Predictability**

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

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**Excitation of Spirals and Chiral Symmetry Breaking in Rayleigh-Bénard Convection**

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**Laser Separation of Geometrical Isomers of Weakly Bound Molecular Complexes**

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**Mating Patterns in Malaria Parasite Populations of Papua New Guinea**


**Ethylene Insensitivity Conferred 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 by Aggregation of β-1,4-Galactosyltransferase on the Surface of Sperm**

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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**

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**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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