



COVER Light microscope image of the dorsal view of the mite *Proctolaelaps regalis* ($\times 20$). The red spot at the caudal end of each mite is pigment that is retained in the posterior hindgut before excretion. This pigment has its origin in the eye of *Drosophila* flies, on which the mite feeds. This mite is a potential vector for the horizontal transfer of genes between different species of *Drosophila*. See page 1125. [Image by M. A. Houck, University of Arizona]

- 1123 Synchrotron X-ray Diffraction from a Microscopic Single Crystal Under Pressure: E. F. SKELTON, J. D. AYERS, S. B. QADRI, N. E. MOULTON, K. P. COOPER, L. W. FINGER, H. K. MAO, Z. HU
- 1125 Possible Horizontal Transfer of *Drosophila* Genes by the Mite *Proctolaelaps regalis*: M. A. HOUCK, J. B. CLARK, K. R. PETERSON, M. G. KIDWELL
- 1129 Inhibition of Neointimal Smooth Muscle Accumulation After Angioplasty by an Antibody to PDGF: G. A. A. FERNS, E. W. RAINES, K. H. SPRUGEL, A. S. MOTANI, M. A. REIDY, R. ROSS
- 1132 Regulation of Kainate Receptors by cAMP-Dependent Protein Kinase and Phosphatases: L.-Y. WANG, M. W. SALTER, J. F. MACDONALD
- 1135 Enhancement of the Glutamate Response by cAMP-Dependent Protein Kinase in Hippocampal Neurons: P. GREENGARD, J. JEN, A. C. NAIRN, C. F. STEVENS
- 1138 Anti-HIV and Anti-Anti-MHC Antibodies in Alloimmune and Autoimmune Mice: T. A. KION AND G. W. HOFFMANN
- 1140 Specific DNA Binding by c-Myb: Evidence for a Double Helix-Turn-Helix-Related Motif: O. S. GABRIELSEN, A. SENTENAC, P. FROMAGEOT
- 1143 Ca^{2+} -Induced Ca^{2+} Release in Sea Urchin Egg Homogenates: Modulation by Cyclic ADP-Ribose: A. GALIONE, H. C. LEE, W. B. BUSA

Technical Comment

- 1146 Conserved Sequence and Structural Elements in the HIV-1 Principal Neutralizing Determinant: Further Clarifications: G. J. LAROSA, K. WEINHOLD, A. T. PROFY, A. J. LANGLOIS, G. R. DREESMAN, R. N. BOSWELL *et al.*

AAAS Meetings

- 1147 AAAS★92: The AAAS Annual Meeting, 6–11 February, Chicago ■ Call for Poster Papers ■ Student Research Awards ■ Instructions for Submitting Abstracts ■ Hotel Reservation Form ■ Advance Registration Form

Book Reviews

- 1151 The Evolution of *Homo erectus*, reviewed by F. H. SMITH ■ Proceedings of the Michigan Morphometrics Workshop, R. E. STRAUSS ■ Biochemistry of the Eye, A. J. ADLER ■ Books Received

Products & Materials

- 1154 HPLC Peptide Standards ■ Monoclonal Antibodies ■ Capillary Electrophoresis System ■ Chromatography Macintosh Software ■ Statistical Software ■ Gels for Submarine DNA Electrophoresis ■ Automated DNA Synthesizer ■ Literature

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