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Downloaded from http://science.sciencemag.org on May 29, 2017
Scanning electron micrograph of the head of the ant Odontomachus altered to show both cocked and closed mandibles. The mandible strike of this ant is among the fastest movements known (0.33 to 1 millisecond), a reflex of a trap-jaw mechanism that is stimulated when trigger hairs on the inner edge of the mandible (not visible) are touched. See page 561. [Original photo: Ed Selig; additional photo illustration: Elizabeth Carroll]

**RESEARCH ARTICLE**

Arabidopsis Ethylene-Response Gene

ETR1: Similarity of Product to Two-Component Regulators

C. Chang, S. F. Kwok, A. B. Biecker, E. M. Meyerowitz

**REPORTS**

On the Thermodynamic Stability of Confined Thin Films Under Shear

D. J. Dierstler, M. Schoen, J. H. Cushman

Long-Range Attractive Force Between Hydrophobic Surfaces Observed by Atomic Force Microscopy

Y.-H. Tsoa, D. F. Evans, H. Wennerström

A Direct Measurement of the Terrestrial Mass Accretion Rate of Cosmic Dust

S. G. Love and E. D. Brownlee

Melting of (Mg,Fe)SiO$_3$-Perovskite to 625 Kilobars: Indication of a High Melting Temperature in the Lower Mantle

A. Zerr and R. Boehler

3.4-Billion-Year-Old Biogenic Pyrites from Barberton, South Africa: Sulfur Isotope Evidence

H. Ohmoto, T. Kakegawa, D. R. Lowe

Scale Transformation of Magnetic "Bubble" Arrays: Coupling of Topological Disorder and Polydispersity

M. Seul and C. A. Murray

Fast Trap Jaws and Giant Neurons in the Ant Odontomachus

W. Gronenberg, J. Tautz, B. Holldobler

FMR1 Protein: Conserved RNP Family Domains and Selective RNA Binding


A Yeast Protein Similar to Bacterial Two-Component Regulators

I. M. Ota and A. Varshavsky

The Conserved Pre-mRNA Splicing Factor U2AF from Drosophila: Requirement for Viability

R. Kanaar, S. E. Roche, E. L. Beall, M. R. Green, D. C. Rio

U2AF Homolog Required for Splicing in Vivo

J. Potashkin, K. Naik, K. Wentz-Hunter

Potentiation by the $\beta$ Subunit of the Ratio of the Ionic Current to the Charge Movement in the Cardiac Calcium Channel

A. Neely, X. Wei, R. Olcese, L. Birnbaumer, E. Stefani

Abnormal Behavior Associated with a Point Mutation in the Structural Gene for Monooamine Oxidase A

H. G. Brunner, M. Nelen, X. O. Breakfield, H. H. Kopers, B. A. van Oost

Mutations in the Glucose-6-Phosphatase Gene That Cause Glycogen Storage Disease Type 1a

K.-J. Lei, L. L. Shelly, C.-J. Pan, J. B. Sidbury, J. Y. Chou

**TECHNICAL COMMENTS**

Cyclic ADP-Ribose in $\beta$ Cells

M. S. Islam, O. Larsson, P.-O. Berggren; S. Takasawa, K. Nata, H. Yonekura, H. Okamoto; A. Galione

**Indicates accompanying feature**

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