Editorial

Science Proves ................................................................. 1449

Articles

Genetic Systems in Chlamydomonas: R. Sager ........................... 1459

Both chromosomal and nonchromosomal systems of genetic determinants are being analyzed in this alga.


Satellites and space probes are revealing the kinds and amounts of radiation men will encounter in space.

Science in the News

John Kennedy’s New Frontier; Lysenko’s Influence on Soviet Biological Sciences Waning ................................................. 1472

Reports

n-Tridecane and trans-2-Heptenal in Scent Gland of the Rice Stink Bug
Oebalus pugnax (F.): M. S. Blum et al. ...................................... 1480

Use of Cytoplasmic Male Sterility in Making Interspecific Crosses in Allium:
E. W. Davis ................................................................. 1481

Pineal Regulation of the Body Lightening Reaction in Amphibian Larvae:
J. T. Bagnara ................................................................. 1481

Experimental Study of Teratogenic Effect of Emotional Stress in Rats:
A. Härlel and G. Härel .................................................... 1483

Perturbations of the Orbit of the Echo Balloon: I. I. Shapiro and H. M. Jones .... 1484

Observed Solar Pressure Perturbations of Echo I: D. O. Muhlenman et al. .... 1487

National Academy of Sciences: Abstracts of papers presented at the autumn meeting .... 1488

Association Affairs

Programs Planned for the AAAS New York Meeting ....................... 1501

Departments

Biochemical Anthropology; Forthcoming Events .......................... 1506

Cover

Pigment cells with dispersed melanin in the tail fin of the tadpole of the South African clawed toad, Xenopus laevis (about × 295). Tails of these tadpoles become dark in color when they are subjected to darkness because the melanin in their pigment cells is dispersed. The reaction seems to be mediated by the action of light on the pigment cells of the fin. Other pigment cells of such tadpoles react differently because they are influenced by the pineal gland (see page 1481).