Editorial
Science Proves

Articles
Genetic Systems in Chlamydomonas: R. Sager
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

Reports
Use of Cytoplasmic Male Sterility in Making Interspecific Crosses in Allium: E. W. Davis
Pineal Regulation of the Body Lightening Reaction in Amphibian Larvae: J. T. Bagnara
Experimental Study of Teratogenic Effect of Emotional Stress in Rats: A. Härtel and G. Härtel
Perturbations of the Orbit of the Echo Balloon: I. I. Shapiro and H. M. Jones
National Academy of Sciences: Abstracts of papers presented at the autumn meeting

Association Affairs
Programs Planned for the AAAS New York Meeting

Departments
Biochemical Anthropology; Forthcoming Events

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).
Editor's Summary

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