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EDITORIAL
Student Exchange

ARTICLES
Chromosomal Variation and Evolution: G. L. Stebbins
Polyploidy and chromosome size and number shed light on evolutionary processes in higher plants.

Genetics of the Bacterial Cell: F. Jacob

High-Temperature Aqueous Solutions: J. W. Cobble
The chemistry of hot water solutions has established a new and rapidly developing frontier in science.

NEWS AND COMMENT

BOOK REVIEWS
The History of Cell Respiration and Cytochrome, reviewed by S. Granick; other reviews by K. B. Krauskopf; R. V. McGehee; K. L. Franklin; J. Popenoe; J. Keosian; J. B. Irwin; R. Finn; J. R. Reeder; New Books

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COVER

Bladder stone, now at the Norfolk and Norwich (England) Hospital Museum, from a boy aged 12 years in 1877. The nucleus is uric acid; intermediate layers are uric acid dihydrate; surface is calcium oxalate monohydrate and ammonium acid urate. Widest dimension, 25 millimeters. See page 1511. [Stone obtained by courtesy of Ridley Thomas]
Editor's Summary