

## Contents of Volume XLIV

### No. 1. JANUARY, 1923

- JUST, E. E. *The Fertilization-Reaction in Echinarachnius parma, VI. The Necessity of the Egg Cortex for Fertilization* . . . . . 1
- JUST, E. E. *The Fertilization-Reaction in Echinarachnius parma, VII. The Inhibitory Action of Blood* . . . . . 10
- JUST, E. E. *The Fertilization-Reaction in Echinarachnius parma, VIII. Fertilization in Dilute Sea-Water* . . . . . 17
- KEPNER, WM. A. AND REYNOLDS, B. D. *Reactions of Cell-Bodies and Pseudopodial of Fragments of Difflugia* . . . . . 22

### No. 2. FEBRUARY, 1923

- LILLIE, FRANK R. *Supplementary Notes on Twins in Cattle*. 47
- GLASER, OTTO. *Copper, Enzymes, and Fertilization* . . . . . 79

### No. 3. MARCH, 1923

- ZELNY, CHARLES. *The Temperature Coefficient of a Heterozygote with an Expression for the Value of a Germinal Difference in Terms of an Environmental One* . . . . . 105
- SIVICKIS, P. B. *Studies on the Physiology of Reconstitution in Planaria lata, with a Description of the Species* . . . . . 113

### No. 4. APRIL, 1923

- MCNAIR, GEORGE T. *Motor Reactions of the Fresh-Water Sponge, Ephydatia fluviatilis* . . . . . 153
- ALLEE, W. C. *Studies in Marine Ecology. I, The Distribution of Common Littoral Invertebrates of the Woods Hole Region* . . . . . 167
- LAMBERT, W. V., RICE, W. S., AND WALKER, H. C. A. *Food and Parthenogenetic Reproduction as Related to the Constitutional Vigor of Hydatina senta* . . . . . 192

## No. 5. MAY, 1923

- ALLEE, W. C. *Studies in Marine Ecology. III, Some Physical Factors Related to the Distribution of Littoral Invertebrates*..... 205

## No. 6. JUNE, 1923

- HOADLEY, LEIGH. *Certain Effects of the Salts of the Heavy Metals on the Fertilization Reaction in *Arbacia punctulata** 255
- WATT, JAMES C. *The Behavior of Calcium Phosphate and Calcium Carbonate (Bone Salts) Precipitated in Various Media, with Applications to Bone Formation*..... 280