



### COVER LEGEND

Sewall Wright (born 1889 in Massachusetts), Emeritus Professor of Genetics at the University of Wisconsin, has made basic contributions to population genetics. His studies of inbreeding and crossbreeding in guinea pigs contributed to the understanding of these processes in terms of Mendelian heredity. He derived coefficients of inbreeding and relationship, applicable to any system of mating, that are generally accepted as those that best express the theoretical consequences of the Mendelian mechanism. Wright was awarded the National Medal of Science for 1966. The portrait was taken in 1954.

The figure is modified from the U. S. Dept. Agric. Bull. No. 1121, 1922, and shows the percentages of polydactyly in guinea pig substrains of strain 35. These illustrate segregation of slightly different tendencies even in rather late generations of brother-sister mating. There was, however, no demonstrable genetic variation with the later substrains. A summary account is given in the Proceedings of the First National Cancer Conference, pp. 13-27, 1949, and the use of guinea pigs in cancer research is discussed in the J. Natl. Cancer Inst., 1: 707-725, 1941.