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THE GENETICS REVOLUTION

PROBLEMS

In each chapter, a set of problems tests the reader's comprehension of the concepts in the chapter, their relation to concepts in previous chapters. Each problem set begins with some problems based on the figures in the chapter, which embody important concepts. These are followed by problems of a general nature.

WORKING WITH THE FIGURES

1. If the white-flowered parental variety in Figure 1-3 were crossed to the first-generation hybrid in that figure, what types of progeny would you expect to see and in what proportions?

Answer: You would get a 1:1 ratio of purple to white. This is because the first-generation hybrid plant has one copy of the purple allele and one copy of the white allele, and as a result, 50 percent of the gametes would carry the purple allele and 50 percent of the gametes would carry the white allele. The white-flowered parental variety has two copies of the white allele, and all the gametes produced from the white plant will carry the white allele. Hence, a cross between the two would produce a 1:1 ratio of purple to white.

Hybrid plant P/p \times white plant p/p

Gametes 50% P 50% p \times 100% p

50% P/p : 50% p/p
Purple : white

2. In Mendel's 1866 publication as shown in Figure 1-4, he reports 705 purple (violet) flowered offspring and 224 white-flowered offspring. The ratio he obtained is 3.15:1 for purple:white. do you think he explained the fact that the ratio is not exactly 3:1?

Answer: This depends on the sample size. When the sample size was large, the proportions were close to 3:1 (e.g., for round and wrinkled seeds the ratio was 2.95:1 and the total population

Solutions Manual Introduction Genetic Analysis

**University Anthony J F
Griffiths, William Fixen**



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combined with a reusable glass capillary array electrophoresis chip which can be employed in a modular based format for genetic analysis In the thesis DNA extraction is performed by adopting a filter paper based method followed by an in situ PCR carried out directly in the same reaction chamber of the chip without elution PCR products are then co injected with sizing standards into separation channels for detection using a novel injection electrode The entire process is automatically carried out by a custom made compact control and detection instrument The author thoroughly tests the system s performance and reliability by conducting rapid genetic screening of mutations on congenital hearing loss and pharmacogenetic typing of multiple warfarin related single nucleotide polymorphisms The successful development and operation of this microsystem establishes the feasibility of rapid sample in answer out testing in routine clinical practice

Manual on Reimbursement for Medical Genetics Services Marc S. Williams,American College of Medical Genetics,2002

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