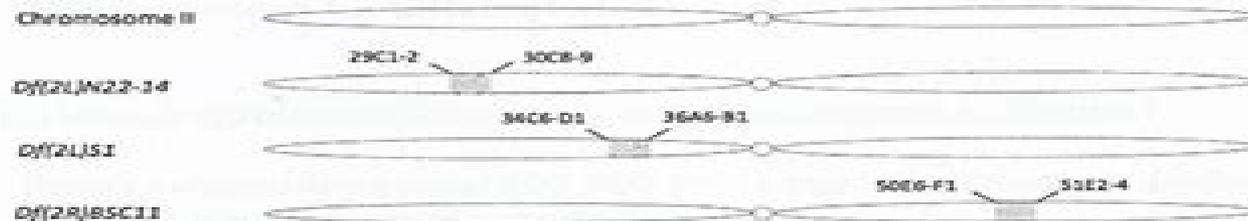


1. Your lab just discovered a new fruit fly mutant that produces flies with short legs. You therefore decided to name the mutant *dachshund* (*dac*). Based upon the results of two genetic crosses, you determined this *dac* mutant is due to a *recessive* mutation located on Chromosome II; you then performed several crosses with the deficiency lines listed above and obtain the results below:

Deficiency chromosome	Deleted segment
<i>Df(2L)N22-14</i>	29C1-30C9
<i>Df(2L)S1</i>	34C6-36B1
<i>Df(2R)BSC11</i>	50E6-51E4



Note: The *Df(2L)N22-14* chromosome has breakpoints 29C1-2 and 30C8-9, the *Df(2L)S1* chromosome has breakpoints 34C6-D1 and 36A6-B1, and the *Df(2R)BSC11* chromosome has breaking points 50E6-F1 and 51E2-4. The grey colored area indicates the deleted segment in each deficiency chromosome.

Genotype	Phenotype
<i>dac / dac</i>	Flies have short legs.
<i>dac / +</i>	Flies have legs of normal lengths.
<i>dac / Df(2L)N22-14</i>	Flies have legs of normal lengths.
<i>dac / Df(2L)S1</i>	Flies have short legs
<i>dac / Df(2R)BSC11</i>	Flies have legs of normal lengths.

(6 points) Based upon the result, can you determine roughly the cytological location of the *dac* gene? If so, where, and why.

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Hans Wachtmeister, Larry Scott



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Biology Laboratory Manual Darrell S. Vodopich, Moore, 1989

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the experimentally advantageous preparations of the crustacean nervous system The advantage is a combination of ease of dissection of key structures and the possibility of repeatedly accessing identified individual cells to measure the detailed response of the system to the experimentally imposed stimulus program Of course the neurosciences have to focus their research on the nervous system of mammals and man in order to understand the principles of function and their regulation if malfunctions occur This is in line with efforts to investigate nervous systems throughout the animal kingdom The specific potential of the encountered systems for exploratory research into hitherto unexplained functions of the brain may very well be a key to new insights The simply organized nervous system of crustaceans performs tasks of vital importance imposed on the organism Hence this system consists of a complete set of neural circuitry open for inspection and measurement by systematic investigation The first volume *The Crustacean Nervous System* contains exhaustive reports on experimental work from all sectors of neuroscience using crayfish and lobsters This second volume *Crustacean Experimental Systems in Neurobiology* contains excellent reviews on significant topics in neurobiology Each section is introduced by short texts written by the section editors of the *Crustacean Nervous System* More prominent authors explain their approach to understanding the brain using a selection of experiments involving visual orientation neuromuscular systems and identification of principles of neural processing [Biology/science Materials](#) Carolina Biological Supply Company,1991

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[The United States Catalog Supplement, January 1918-June 1921](#) Eleanor E. Hawkins,1921 [The Publishers' Trade List Annual](#) ,1917 *American Book Publishing Record Cumulative, 1950-1977* R.R. Bowker Company. Department of Bibliography,1978 **Laboratory Topics in Botany** Ray F. Evert,Susan E. Eichhorn,William A. Russin,2005-04-22 Offers several exercises within each topic that can be selected for coverage that suits individual course needs Questions and

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web people who wanted liberty or freedom for enslaved people gave the bell its name in 1839 the liberty bell is mostly copper and tin it is 3 feet 91 centimeters high and 12 feet 3 7 meters around at the bottom it weighs about 2 080 pounds 943

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