## The Role Of The Laboratory **Rat In Nutrition Research**

Long-term studies with labo- in the ARS Human Nutrition ponse to type of carbohydrate ratory rats are providing infor- Research Division as an effort of five rat strains, two of which plain food needs of people, mation that may help answer to determine why — and to have been maintained in the scientists have to know and some of the mysteries of human what extent — humans vary in Beltsville laboratory under study their specific inherited nutrition, the U.S. Department their nutritional requirements. identical conditions for more characteristics so as to properly of Agriculture reports.

is the knowlege that animals nutrition studies because of search indicate that metabolic lar diet can be measured grounds respond differently to the way they metabolize and use said yesterday.

al Conference on Laboratory carbohydate, fat, or cholesterol in some humans For instance,

Explaining that laboratory than 10 years. Among the resulting benefits rats are used extensively in their similarity to humans in patterns may vary in rats of dif-

D. C, described work with rats experiments dealt with res- duals sensitive to carbohydrates age, and sex of animal.

Lancaster Farming, Saturday, April 12, 1969-25

are being identified These people whose fat and glucose metabolism is not normal, are human beings do When it besaid to have a "high risk" potential for atherosclerosis.

When animals are used to exinterpret research results and establish a baseline upon which Results of this and other re- individual response to a particu-

Such characteristics as body various kinds of diets, a re-food, Mrs Marshall cited studies ferent strains as well as in in- size, body measurements, high food, Mrs Marshall cited studies Agricultural Research Service showing that the fat metabolism dividual rats within the same or low levels of blod cholesof two strains of rats differed strain Such variations, Mrs teiol, organ weights, liver comeven though both groups were Marshall said, may be due to a position, blood and body com-Mrs. Mary W. Maishall, in a fed the same diets The res- number of possible metabolic position, incidence of kidney talk before the 4th Internation- ponse varied with the type of defects, most of them also found disease, and degree of voluntary Animals held in Washington, contained in the food. Parallel an increasing number of indivi-

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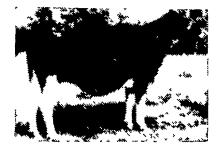
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