

RATS PROVE DEFECT CAN BE INHERITED

Abnormal Eye Transmitted by Interbreeding Experiment of Woman Zoologist.

EXERCISE SHORTENS LIVES

Size of Brain Decreased by Domestication. From Which Deductions Are Drawn as to Development of Humankind.

PHILADELPHIA, Oct. 30.—Continuation of experiments in which more than 50,000 white rats are utilized at the Wistar Medical Institute of the University of Pennsylvania is throwing light on new problems of heredity and other questions that are puzzling the medical profession.

The fear of rats and mice by women is proverbial. Yet this monster colony is under the personal supervision of a woman, Dr. Helen D. King, one of the most noted zoologists in America. The principal tests and observations are conducted by her, other famous scientists assisting.

Because of a similarity in the organisms of white rats to those of human beings, these animals are regarded by scientists as excellent subjects for research. Dr. King has just concluded an experiment in interbreeding of white rats which appears to refute the contentions of some authorities here and abroad that a human being cannot inherit the physical defects of an ancestor.

Defective Eye Transmitted. Some time ago, a female white rat was born in the colony with the right eye about as large as a pin head, and the other eye of normal size. Dr. King practiced interbreeding, and from that defective female were produced 50 descendants, all inheriting, in different degrees, the eye defect.

Violent Exercise Harmful. It was discovered that the vigorous exercise enlarges the heart and kidneys, disorganizes the nervous system, and shortens the lives of the rat runners. Dr. M. J. Greenman, head of the institute, said that the experiment tends to indicate that humans are affected in a similar manner by too violent exercise.

According to Dr. Greenman, the influence of domestication has served to reduce the size of the brain of the rat. "The brains of wild rats," he said, "are much larger. This is because the wild rat has to hunt and scheme to get his food, while the domestic animal has to make no effort along that line. The forced mental activity of the wild rat acts as a developer of its brain."

Mental Resources Considerable. "A rat has considerable mental equipment. In fact it is one of the brightest animals we have. No animal exhibits such cunning and resourcefulness in the pursuit of its food." All of the rats are raised under the direction of Dr. King and Dr. J. M. Stoenburg. About 20 litters are born daily, generally about eight rats to a litter. It is necessary to kill about 100 of the new arrivals every day to keep down the colony's population.

BUSINESS WAVES STUDIED

Whitman Economic Students Hear Statistical Service Talk.

WHITMAN COLLEGE, Walla Walla, Wash., Oct. 30.—(Special).—A good insight into the work of making and the use of the charts of the Bureau of Statistical Service was given to the students of the department of economics and business last Wednesday. When Frank H. Storm, lecturer for the college department of the Babson Service, spoke on the factors that affect the rise and fall of business conditions, Mr. Storm said that there were about 24 of these factors used by his organization, and each receives a numerical value, which is reduced to a common denominator and plotted to scale. A study of this chart for a number of years shows that every period of prosperity is followed by an equal period of depression. It is the opinion of the organization that there was a period of prosperity just started this Fall, which would last until near the end of the war in Europe.

SIR CHARLES TUPPER DIES

Canadian Statesman Passes in England at Age of 96.

OTTAWA, Ont., Oct. 30.—Sir Charles Tupper, venerable Canadian statesman, died in England today. He was 96 years old. Sir Charles played a prominent part in Canadian affairs from the time the Dominion was established. In 1867, previously, in 1864, he had become Premier of Nova Scotia. He was always a power in politics until he retired to private life. His statesmanship was essentially constructive. As Minister of Public Works in the Macdonald Cabinet in the '70s, he created the Department of Railways and Canals, and became its first Minister. In this post he carried out the policy of the government for enlargement of the Welland Canal, deepening of the St. Lawrence River, improvement of the Intercolonial Railway and construction by a private company of the Canadian Pacific Railway. He was created a Baronet in 1879.

"JOHN DOE NO. 104," ADOPTED BY MR. AND MRS. FINLEY J. SHEPARD, TO BE HEIR TO GOULD MILLIONS.



—Photograph from Underwood & Underwood, New York. John Doe No. 104, alias Austin McClary, as he was called when he was a homeless waif, is now romping around Lyndhurst, at Irvington-on-Hudson, the estate of Mr. and Mrs. Finley J. Shepard, now known as Finley Jay Shepard, Jr., and heir to the Gould millions. October 21 Mr. Shepard and his wife, who was Miss Helen Miller Gould, appeared before Surrogate William A. Sawyer, of Westchester County, at White Plains and formally adopted the 4-year-old boy, who was found on the steps of St. Patrick's Cathedral by a policeman near midnight of September 12, 1911. The boy was taken to the Childs' Society, from where he was transferred to St. Patrick's Cathedral at Dobbs Ferry. Here the child attracted the attention of Mrs. Shepard, who visited the institution in the interests of the big sister movement. She was attracted by his hair and eyes and his affectionate disposition and this attraction finally led to the boy's adoption.

LAW ALONE GOVERNS

Supreme Court Again Raps Bureaucratic Assumption.

IMMIGRANTS CAN LAND

Officials Not Permitted to Exclude Newcomers Because of Hypothetical Situation Not Covered by Statute.

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Advertisement for Roberts Bros. Third & Morrison. Features 'Comfort Making' with prices for wool and cotton batts, and 'Beautiful New Messaline-Taffeta Silk Waists \$2.98'. Includes an illustration of a woman in a dress.

Advertisement for Coatings and Suitings. Promotes 'Correct Fall and Winter-Weight Fabrics' and lists various items like Storm Serges, All-Wool Fabrics, and Scotch Mixtures with their respective prices.

Advertisement for 'Completeness of Stocks to Complete Your Satisfaction'. Features a 'Suit Sale Out of the Ordinary' with 'Choice From Values to \$35 at \$19.75'. Includes an illustration of a woman in a dress.

Advertisement for 'SEVERE RHEUMATIC PAINS DISAPPEAR' and 'NO QUININE IN THIS COLD CURE'. Promotes 'Pape's Cold Compound' and 'Hood's Sarsaparilla'.

Advertisement for 'Dexter's Silko Cordonnnet', 'Hosiery and Knit Underwear', and 'Wool Union Suits \$1.50'. Includes an illustration of a woman in a dress.