RESULTS OF VIVISECTION.

INTERESTING EXPERIMENTS.

Scientifically Demonstrated.

From the New York Tribune. periments with dogs has been lately power of the gastric juice. In order made by Prof. Mott, and in the to obtain some pure gastric juice, a Scientific American of Feb. 7, a de- curious device was resorted to. Dr. tailed account is given. The dis- Mott sent several dogs to Prof. Arclosures are so unpleasant and start- nold, Medical Department of the ling, coming home, as they do, to University of New York, who inevery one, that we believe they serted a small metallic tube directly should be given the greatest pub- through the skin and into the licity. The effort Dr. Mott is mak- stomach of each one of them, when ing to purify our articles of kitchen the dogs were in a perfectly healthy use should receive the support of condition. Prof. Arnold sent to Dr. every thinking man and woman. Mott some gastric juice, which was There has been too much indiffer- produced by tickling the lining of ence on this subject—an indifference the stomach of the dogs with a feathat has resulted in Americans earn- ther or glass rod, which caused the ing the title of "a race of dyspep- gastric juice to flow out of the tube considered and explained. tics." Poison, year after year, is in- into a receptacle placed underneath troduced into the stomach with a the dog to receive it. eriminal disregard to consequences Dr. Mott, aided by Prof. Schedler, that is appalling. If every purveyor then began some experiments with of domestic supplies will carefully the four samples of gastric juice, consider the result of Dr. Mott's ex- which he had received from Prof. periments, as detailed in the Scienti- Arnold, to discover the effect of the fic American, one of the greatest, if gastric juice in which alum had been not the greatest, of these evils will dissolved upon fibrine, a white, very 513 Montgomery St., San Francisco, California.

of alum in flour, for various purposes, rine was imperfectly digested, and has been a trick of the baker for the the experiments were very importthe past 100 years. Fortunately for ant, as showing that alum can check society, its introduction is limited the digestion of so easily digested now to a few unscrupulous bakers. a substance as fibrine. They indicate In England, France and Germany | therefore how dangerous it is to init is an offense punishable by fine troduce these two salts into our and imprisonment to use alum in stomachs if we do not wish to excite any connection with articles of food. | indigestion and dyspepsia. Further It should be so in America."

corporation, celebrated for the abso- power of dissolving the more indilute purity of their goods, some time gestible substances, like the boiled ago commenced a vigorous warfare white of an egg, is concerned. against many of their competitors Dr. Mott then determined to learn who were indulging in hurtful adul- whether alumina could be found in teration. The contest excited great | the various organs of the body if a interest in scientific circles, in which | dog was fed with hydrate of alum-Prof. Angell, Dr. Mott, and other ina. He found a considerable quanleading lights took a very prominent tity of the stuff in the blood, liver, part. The experiments of Dr. Mott kidneys and heart. are a result of this discussion, and go The Doctor goes on to describe the to prove conclusively that the most different symptoms exhibited by dangerous adulteration that a com- these dogs as they passed through munity had to guard against is alum almost every phase of animal agony in baking powder. In his paper, the until they were left in a complete Doctor says: "It was with difficulty state of physical prostration. To I found a suitable place to conduct those especially interested in the dethe experiments so that the tails of this subject, the article in animals would not disturb the the Scientific American supplement neighborhood; but, through the will give most complete information, courtesy of the Commission- and we will spare the sympathetic ers of the Dock Department, I reader the account of the sufferings secured a shed on their premises, foot of these dumb brutes. of Sixteenth Street and East River. Dr. Mott's conclusions, after mak-This shed I had completely remodel- ing these experiments, are of vital ed into a suitable house, having the interest to every one who either dimensions of about 16x14x12 feet. makes or eats bread, and therefore Sixteen stalls were made inside, hav- | concern all. ing the dimensions of 32x2x22 feet. "These experiments," said he re-The bottom of each compartment cently, while speaking before the was covered with straw, making a American Chemical Society, "clearpleasant bed for the dogs. I then ly demonstrate that the salts left in secured 16 dogs from the pound, the biscuit when a cream of tartar which were all carefully examined baking powder is used are perfectly to see if they were in a perfect state harmless, but when an alum baking of health. None but the strong, powder is used are very dangerous, healthy dogs were selected. The for in every case where dogs were breed, age, food, color, and weight fed on biscuits made with such powof every dog was carefully noted. ders, the dogs were made very sick, Each dog was then confined to a causing them to vomit profusely, stall and securely chained, and they lose all energy, and show weakness all received a number, from 1 to 16. in their limbs." I commenced my experiments on It is a clear and triumphant corrothe 9th of September, and finished boration of the assertions of the December 3. My assistant was Royal Baking Powder Company, and with the dogs from morning until entitles them to the gratitude and night, and never left the animals support of the community they are without first securely bolting and endeavoring to protect. As they locking the dog-house. No stranger claim, and Dr. Mott has shown, bread was allowed to enter the house un- made of alum is totally unfit for huaccompanied either by myself or man or animal food. 'Tis true, in my assistant, and the dogs never re- the bread of domestic consumption ceived a mouthful of food or any- there may not be as large a proporthing else from any one except from tion of baking powders as was in the G. L. Brush, 443 Broadway, N. Y., 10 my assistant or myself. I will now bread used by Dr. Mott, and that detail the result of my experiments: accounts for the fact that the symp-

"Dog No. 1-Breed of dog, coach. toms in the reader are not so well Age, 1 year. Health, perfect. Food, defined as they were in the experibread and crackers. Color, spotted ments in question. How many black and white. Weight, 35 there are of our immediate pounds.

the 9th of September, was given reveal; but many a lingereight biscuits at 8.10 o'clock. The ing and suffering invalid, with no biscuit were made by myself as fol- defined idea of his trouble, can easily lows: One quart sifted flour, 20 tea- trace it to its source by stopping the spoons alum baking powder, 2 cups use of alum powders, substituting water, 1 tablespoon butter, 22 bis- some brand like the Royal Baking cuits made, weighing 27 ounces; Powder, whose manufacturers have time of baking, 20 minutes.

twenty minutes, the dog was taken every ingredient before its incorporvery sick, vomiting profusely; his ation into their powder. The old vim and brightness of eye had de- cry of "honesty being the best parted, and he trembled considerably policy" may be worn threadbare, in his limbs."

Experiments were then made while adulterations and short upon three dogs with biscuits con- weights abound, it is a pleasure to taining only 10 teaspoons of alum see at least one in the trade strenubaking powder. The result indicat- ously endeavoring to give full ed that some animals are more liable weights and pure goods.

to yield to the effects of poisonous substances than others are. When, on the other hand, three other dogs were fed with biscuits made with Prof. Mott shows how People are pure cream of tartar baking powder, taking poison in their daily food no ill effects were experienced. They -A prolific source of Dyspepsia ate and ate with an evident relish, day after day, and even whined for more.

It was next necessary to discover A series of highly interesting ex- what effect alum has on the solvent

Dr. Mott says: "The introduction | basis of coagulated blood. The fibexperiments showed that the diges-The Royal Baking Powder Com- tive power of the gastric juice is enpany, of this city, a long established | tirely destroyed by alum, so far as its

friends suffering from this evil, "To this dog, on the morning of scientific investigation will alone a competent chemist in their ex-"At 11.30, just three hours and clusive employ, who rigidly analyzes

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