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R. H. COLLINS, T. D. BOWERS,
EDITORS,

SATURDAY, JANUARY 28, 1905.

CANCER'S CURE IS FOUND.

Dr. Rosewell Park, of Buffalo, Says it is a Parasitic Diecase.

HAS LABORED FOR SIX YEARS.

Assisted by Doctors of Gratwick Pathological Laboratory, He Has Prepared Curative Serum.

Buffalo, N. Y., Jan. 13.—The scientists who since 1899 have been studying cancer at the Gratwick pathological labratory of the University of Buffalo, under the patronage of the state of New York, are preparing to report to the profession facts which indicate that they are nearing the solution of a great problem.

The Buffalo laboratory has proved cancer to be a parasitic disease, infectuous in type; that is has been transplanted and reproduced in perfectly healthy animals; that the reproduction has been true cancer as it exists in the human, and that the disease in animals has been cured by the administration of a serum prepared in the Buffalo laboratory.

Experimentally considered, the questions of the cause of cancer and its absolute curability are settled facts. What remains now is the application of the results of animal experimentation to the cure of the disease as it exists in the human being.

MUCH YET TO BE DONE.

Much work remains to be done before Dr. Rosewell Park, director of the laboratory, will be prepared to make the final announcement of the discovery of a serum suitable for use in the alleviation and cure of cancer in human beings bnt that this will be forthcoming in due time is an almost assured fact because of the discoveries that have been made by Dr. H. R. Gaylord, pathologist, and Dr. G. H. A. Clowes, chemist of the laboratory.

The statement of what has been accomplished says:

"Drs. Gaylord and Clowes, assisted by Mr. Baeslack, of the cancer laboratory of the state department of health, have recently performed a series of experiments on mice infected by cancer, which have led to the discovery of an anti-toxic series which visibly affects the growth of cancer in mice, and in a number of cases has been sufficiently active to cause the total disappearance and cure of tumors of considerable size.

"The emphasis of the possibility of the animal overcoming the cancer led the experimenters to investigate the conditions under which this occured and, having for some time had in mind the possibility of the serum treatment for cancer, they conducted a series of experiments which have proved beyond question that the blood of mice which have recovered from cancer possesses an antitoxic quality and when injected into mice suffering with cancer stops the growth and, when the tumors are not too large, causes their disappearance and leaves the mouse so protected that the tumors do not return.

SERUM DEVELOPS IMMUNITY.

"Furthermore, the mice which have been cured by this serum treatment also possess in their blood an antitoxin which works in a similiar way, showing hat the cure of the tumors is the result of the development of a special immunity from cancer.

"The changes which are brought about in the tumors in the mice are similiar to those which have been already found in man, and the fact that cancer patients have occasionally been known to recover spontaneously shows that there is apparently no discrepancy between the conditions found in man and those observed in mice."

For many years Dr. Park has been studying cancer in this country and abroad. He has been a frequent visitor to the laboratories of the most eminent investigators of foreign countries.

After many rebuffs the legislature voted an appropriation which enables the investigators to pursue their work on broader lines, and since then they have been industriously at work. Their efforts have attracted the attention of distinguished investigators.

TRANSPLANTED TRUE CANCER.

From the inoculated mice the laboratory workers succeeded after months of experimentation in transplanting true cancer to a previously healthy animal. This step was worked over and over again, until there was no possible shadow of doubt as to the success of the inoculation and reproduction, and this result, brilliant in the smoothness of its progressive steps, corroborated the discovery that cancer was an infectuous disease.

Mice, clean and healthy, were infected with cancer and died. Post-mortem examination disclosed that the infection was the cause of death and that the resulting cancer was classic in type, possessing all the features of the growth as found in man.

Other healthy mice were infected with cancer successfully and presented all the classic symptoms of true cancer. From these animals was prepared a serum. After great labor success was finally reached.

A mouse with proved cancer was injected with a new serum. In a short time the tumor appeared smaller; soon it was appreciably lessened in size; finally it disappeared altogether and a cure was apparent.

That happened months ago, and steadily, unceasingly since then the work has been followed up until now it is an absolute fact, scientific in all its details, and the cure of cancer in lower animal life has reached so perfect a stage as to be demonstratable to even the lay mind.

The disease will be traced upward through the various grades of animal life and followed until a serum is discovered which will cure cancer in man, and it is not unreasonable to predict that the day is not far distant when formal announcement of such a result will be made.

GRATITUDE ITEMS.

Gratitude, Md., Jan., 1905.

MESSRS. EDITORS:—It looks very much like winter now on our harbor and bay. Our inner harbor though has but very little heavy ice in it, not enough to prevent some from catching some very fine oysters, which are being disposed of at very fine prices. Owing to the change of boats and the unexpected turn of the weather, today is the first day this week we have been visited by a steamer, but they now expect to run on schedule time and I think they can well expect to do so from the way the graceful little Gratitude csme through the very heavy ice around and inside of Swan Point bar. It looks as though she can be classed with the great ice breaking steamer the Queen Caroline. The people of Kent and Queen Anne's counties should be proud of and show their appreciation of the management that gives them such facilities for tranportation.

The most of our watermen are now having a time of leisure, but are all ready and anxious for the breaking up of the ice so they can start on their spring work. So far our fishermen have not been very successful owing to a law that prohibits the placing of stakes more than 800 yards from the shore. It is impossible to anchor nets so they will catch fish like stake nets, our fishermen are thereby prohibited from taking fish from the waters of the Chesapeake bay at a time when they are most needed and enjoyed as an article of diet. They will also represent about three times the money valued at this time as they will when they go into the head waters of the bay and tributaries to spawn where they are caught and killed in almost any way.

Some of our merchants are busy even on these dull times.

Some of our church people are also on the move. The members of Wesley Chapel met at the home of Mr. Samuel Burgess and organized a society named the Wesley Chapel Improvement Society, with Mrs. Elmer E. Leary as chairman. They will hold a supper at their parsonage (public cordially invited,) on Thursday of next week charging the sum of 25 cents. They expect to have a supper once a month and a sociable every week excepting the one in which they have their supper. Their sociables will meet at the home of the members. All present paying the sum of 5 cents and all members who are absent will be fined 10 cents. Anyone refusing to take the part assigned them by the committee on entertainment is to be fined 25 cents. The first meeting will be at the home of Mrs. Charles L. Miller on Thursday of the week following the supper. All seem very much in earnest, and it looks as if Wesley Chapel will have its needed improvements and repairs.

Gold Mining in Maryland.

"In an eight-day run, working on a level of 150 feet, there was taken out $2,000 in gold right over in Maryland, almost within a cannon shot of Washington," said Mr. A. B. Russ, of Montgomery county, at the National. "Mr. Campbell, of Scranton, Pa., the owner of the Maryland mine, and Mr. Lloyd, his foreman, were those who supervised the work. Out of 150 tons they took out 100 ounces of gold, with the value named. A few days ago $11,000 was taken out. It is simply wonderful what a lot of gold is being found there. Twelve years ago I walked over the ground at Great Falls with now Senator Clark, of Montana, and he told me that it contained a great deal of the best gold-bearing quartz. They are just bringing it to the surface, and I predict that later developments will be startling."—Washington Post.

GREEN MANURING.

A Test in Which Alfalfa Leads All "Nitrogen Collectors.

By F. T. SHUTT, Canada.

Green manuring is principally useful in furnishing nitrogen and humus, the former an essential element of plant food, the latter a most important constituent of soils, both chemically and physically. Whem employing rye, buckwheat or other plants not legumes, the nitrogen stored within the tissues of the crop has been obtained from the soil, but with the legumes (clover, peas, etc.) the case is different. They, under favorable conditions, have the power of appropriating the larger part of their nitrogen from the atmosphere. On account of this property they have, as already stated, been termed "nitrogen collectors." Since nitrogen is the most expensive of all the elements when fertilizers have to be purchased the value of green manuring with the legumes, which are exceedingly rich in this constituent, becomes apparent. The humus thus supplied increases the retentive power of light soils for moisture. By the carbonic acid liberated in its decay the inert plant food of the soil is dissolved.

The elements that compose the humus of the legumes are for the most part derived from the atmosphere, so that in the benefits conferred by the presence of humus and its decomposition there is a distinct gain. Further, we may well suppose that the mineral matter or ash constituents of the green crop are, by the decay of the latter in soil, set free in a condition more or less immeadiately available to plants; hence, although such a method of manuring has not added to the total store of mineral food in the soil, it has materially enhanced its value by conversion into more assimiliable forms.

A consideration of the yield and amount of fertilizing constituents per acre from three months' growth of clover crops at the experimental farm, Ottawa, shows that in total yield of crop alfalfa stood second. It was from this plant we obtained the largest amount of humus in the stems and leaves as well as in the roots. It also afforded the most nitrogen per acre, nearly half of which was in the roots, a feature in which it stands alone among the clovers experimented with and one of great importance when the crop is intended for soiling or curing. The extensive or ratner deep root system is of much value in the mechanical improvement of the soil. It serves to bring to the surface layers much plant food ordinarily out of the reach of farm crops.

The mineral matter exceeded by 300 pounds per acre the amount in the crimson clover crop, the next best in this respect. More than half of the 1,100 pounds of ash constituents recorded as stored in the yield per acre was contained in the roots.

Taking in consideration all the important requirements, from a chemical standpoint, of a crop for green manuring, the alfalfa gave the best results in the present investigation.

ENGLISHMAN'S FRANK TOAST.

Admitted that the Eagle Was More than a Match for the Lion.

A well-known local minister who had just returned from an extended western trip tells the following:

Recently in Los Angeles five prominent gentlemen of foreign birth chanced to meet. One was a Russian, one a Turk, one a Frenchman, one an American, one an Englishman. These gentlemen became bosom friends, and finally a champange supper was proposed, at which each gentleman, to be in keeping with the times, was to give a toast to his native country, the one giving the best toast to be at no expense for the wine. Here are the toasts given:

"The Russian—'Here's to the stars and bars of Russia, that were never pulled down."

"The Turk—'Here's to the moon of Turkey, whose wings were never clipped."

"The Frenchman—'Here's to the cock of France, whose feathers were never picked."

"The American—'Here's to the stars and stripes of America, never trailed in defeat."

"The Englishman—'Here's to the rampin' roaring lion of Great Britian, that tore down the stars and bars of Russia, clipped the wings of Turkey, picked the feathers off the cock of France and run like h—l from the stars and stripes of the United States of America.'"—Albany Journal

The Government's Music.

A certain congressman who takes an interest in musical matters presented a bill advocating a larger appropriation for the care of the music in the Congressional library. He spoke briefly on the subject, and after the session a fellow congressman approached him confidentially.

"I say," he said in a low voice, "I like that bill of yours. But, tell me, what sort of music does the government have over there in the library? Is it a band or just a hand organ?"—Harper's Weekly.

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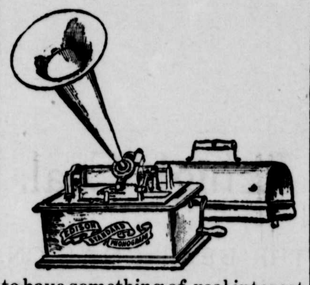
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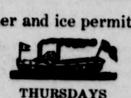
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" " Shallcross at - 12.30 noon
" " Cassidy's at - - 12.45 P. M.
" " Betterton at - 1.15 P. M.
" " Gale's at - - - 2.15 P. M.
" " Tolchester at - - 3.00 P. M.

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