

Cancer Light Ray Sought By Science In Disease Battle

Ultra Violet Beams Studied By Illinois Doctors For Disease Key.

The black sheep of the sunshine family—the rays that cause skin cancer—were hunted recently by Illinois University medical men, who want to know where and why they go astray.

The offenders are not really black, but invisible ultra-violet, Dr. A. Bachem, biophysicist, declared.

Which of the ultra-violet rays are they, and why do they cause cancer? Merely because they irritate the skin or because they contain some more definite causative factor? To learn the answers, Dr. Bachem and his aides are experimenting with 100 little white mice in the Medical School laboratory.

The rodents are exposed to every wave-length in the ultra-violet spectrum, from 390 millimicrons (the millionth part of a millimeter, which is about one-twenty-fifth of an inch), on the edge of visible light, to 100 millimicrons, on the outer edge of scientific knowledge. Different light filters are used to make sure that every possible variation of effect is isolated. One instrument even cuts off all the rays that usually reach the earth and lets through only those rays that the air absorbs.

Once the effect of each wave-length is determined, Dr. Bachem said, the exact link between ultra-violet rays and skin cancer probably will be revealed.

If the disease is shown to be caused by those wave-lengths that produce the most heat, he explained, it can be assumed that the rays cause cancer through irritation. If, however, the causative factor is found at a wave-length that produces relatively little heat, it may be assumed that cancer is caused by some component of the rays.

CHRISTIAN SCIENCE SERVICE

At First Church of Christ, Scientist, Saint John, N.B., corner of Germain and Queen Streets, the subject of the lesson-sermon next Sunday is: "Sacrament." Golden Text: John, 16, 33. "In the world ye have tribulation; but be of good cheer; I have overcome the world."

Among the citations are the following: Matt. 26: 27, 28. "And He took the cup, and gave thanks, and gave it to them, saying, drink ye all of it; for this is my blood of the new testament, which is shed for many for the remission of sins." And from Science and Health with Key to the Scriptures by Mary Baker Eddy, 25: 3, 6. "The spiritual essence of blood is sacrifice. The material blood of Jesus was no more efficacious to cleanse from sin when it was shed upon 'the accursed tree' than when it was flowing in his veins as he went daily about his Father's business. His true flesh and blood were his life; and they truly eat his flesh and drink his blood, who partake of that divine life."

QUADRUPLETS CELEBRATE



Morlock quadruplets celebrate Christmas

Identical presents, including two drums apiece, thrilled the hearts of the WORLOCK QUADRUPLETS of Lansing, Michigan, when they celebrated the Christmas season in their home. Shown beside their big tree are, top to bottom: HELEN, WILMA, SARAH and EDNA, five years old.

The News On Review

The Supreme Court of the United States killed the original and amended Agricultural Adjustment Act in a decision last Monday.

Four armed men escaped with jewels and uncut gems valued at \$100,000 to \$150,000 taken last Monday in a midday robbery of a store in Radio City, New York.

President Roosevelt has asked for 307 more detectives, an anti-crime college for district attorneys and more prison guards to tighten the protection in the United States against the lawless.

A summary of wholesale trade in Canada, by provinces, issued by the Dominion Bureau of Statistics, shows British Columbia's total for 1934 at \$94,131,000, or an increase of 12.8 per cent. over 1933.

An appeal for £5,000 (about \$25,000) for the use of the Red Cross in Ethiopia has been issued by Rev. H. R. L. Sheppard, conon of St. Paul's Cathedral. "There are no words to describe the needs for medical work in Ethiopia," he announced.

The reappointment of Sir Arthur Grenfell Wauchope as high commissioner for Palestine and Transjordan is announced by Colonial Secretary J. H. Thomas. Sir Arthur, who as-

sumed his duties in 1931, thus will serve a second term.

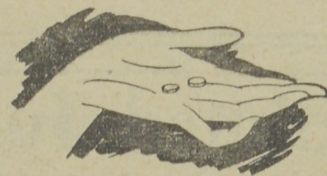
Although the reduced tariff rates which became effective recently on some classes of cattle imports from Canada are available also to Mexican shippers, a U. S. State Department spokesman said Mexico has virtually no cattle of the weights affected.

The United States must buy more than one and one-half billion ounces of silver to comply with the requirements of its silver purchase act and this requirement has become the only source of demand for silver, it is said in the monthly letter of the Royal Bank of Canada.

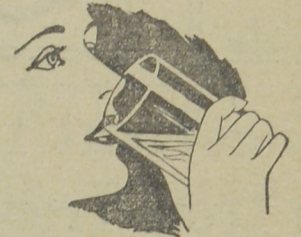
A national defence budget of nearly \$1,000,000,000—the largest peace-time sum ever asked for strictly military and naval purposes—went to the United States Congress from President Roosevelt. He estimated \$937,791,966 would be required in the 1936-37 fiscal year for both the army and navy.

The Turkish Government, convinced by the Mediterranean crisis that her air force is inadequate, has voted a special expenditure of \$18,000,000 for fighting planes. Salaried workers will pay for the planes by a special tax of two per cent. on all salaried earnings. It will be deducted after

INSTANTLY YOU CATCH COLD DO THESE 2 THINGS



1. Take two "Aspirin" Tablets. Make sure you get "Aspirin."



2. Drink a full glass of water. Repeat treatment in 2 hours.

Instead of using fancy priced "cold remedies" try the new-day cold treatment pictured here. Your own doctor will approve it. It will start easing the average cold or sore throat almost as fast as you caught it.

The "Aspirin" you take will start combating your cold internally at once; if throat is sore, crush and stir 3 "Aspirin" Tablets in a third

of a glass of water; gargle twice. Do not rinse mouth.

"Aspirin" Tablets are made in Canada. "Aspirin" is the registered trade-mark of the Bayer Company, Limited. Look for the name Bayer in the form of a cross on every tablet.

DEMAND AND GET "ASPIRIN"

PUPS FOR QUINTUPLETS



Eight-year-old PATRICIA ANN FORD, daughter of WALLACE FORD, film actor, loves dogs. At the same time the Dionne quintuplets fascinate her. Here she is with her father as they prepared to place five tiny terriers—Patricia Ann's gift to the famous quints—in a comfortable crate to be expressed to the babes at the Dafoe hospital in Ontario. Each pup was tagged appropriately for each of the Dionnes.



four other special taxes are imposed. President Mustapha Kemal has adopted this means of raising funds in order not to unbalance the budget.

An increase of \$592,697 in revenue collections at Montreal for December compared with the same month in 1934 was reported by the collector of national revenue. The increase is the largest of any month since October, 1934. Receipts last month totalled \$6,498,858 against \$5,906,161 the previous December.

Regular aeroplane passenger and mail service between Hamilton, Bermuda, and New York would be established next August, G. E. Woods Humphery, managing director of Imperial Airways, said while visiting Bermuda recently. Imperial Airways and Pan American Airways would cooperate in the service, each op-

erating one two-way flight a week, he said, predicting an increase to four flights each way early in 1937.

Discovery of a brand new germ was announced by three University of Chicago doctors. They named it bacterium necrophorum, and termed it the apparent cause of chronic ulcerative colitis (intestinal ulcers) in reporting to the American Medical Association.

Banking circles expressed skepticism over reports from Paris that a scheme is being negotiated to permit 100,000 Jews to take themselves and their money to New York and London in exchange for large purchases of German goods by Jewish communities. Somewhat similar plans have been rumored previously, but bankers have been inclined to regard them as "Nazi trial balloons."

BRICK BRADFORD—On the Isles Beyond the Ice



HIGHNESS, YOUR BROTHER, THE KING, WISHES YOU TO RETURN TO THE CASTLE AT ONCE!



CEASE JESTING! MY GRAVEST FEARS HAVE BECOME FACT!



WHAT!



SO IT'S WAR, IS IT? WELL, LET THEM COME!