

Science Authorities Believe Virus Can Cause Cancer in Human Beings

Editor's note: Where science stands in its efforts to conquer cancer is being laid out in depth in Excelsior Springs, Mo., by the top cancer scientists. It will be a seven-day briefing, covering the seven major divisions of cancer research. Following is the first dispatch of Delos Smith, UPI science editor, who is one of those being briefed.

By DELOS SMITH
UPI Science Editor
Excelsior Springs, Mo.—UPI—On the question of whether viruses cause cancer in human beings, the scientific answer is, yes. On the question of whether science will be able to do something about it, the answer is again, yes, but it's going to take a long time.

These answers reflect the convictions and confidence of top virus authorities assembled here by the American Cancer Society to make progress reports on their side of the many-sided campaign of science to lick the disease which is the No. 2 killer of people.

Experts on the other sides are here to report their progress, to a group of science writers. One phase will be reported "in depth" daily for seven days, and when all the reports are in, the public will have an up-to-the-minute account of where the big campaign now stands.

Obviously viruses do not cause cancers in human beings the way viruses inflict them with the common cold. If they did there would be no human race.

Actions Are Complicated
Cancer-causing viruses have to act in extremely complicated and well-hidden ways. Otherwise science would know at least as much about the viruses as it does about the viruses which cause polio, for instance.

Dr. Joseph W. Beard of Duke University, Durham, N.C., and Dr. Seymour Cohen, of the University of Pennsylvania, Philadelphia, made these complications and concealments dramatically fascinating in describing the taking-apart of individual cells that were so delicate as to be almost incredible.

Beard did it by slicing the cells so thin he got about 300 slices per cell. The slices were then subjected to the high magnifications of the electron microscope. Cohen did it by breaking down the chemical reactions of a cell to a virus—and of a virus to a cell—into exceedingly fine detail.

Neither worked with human cancer cells since no one has ever made a positive identification of a causative virus for human cancer. Science's conviction that there are such viruses is based upon there being more than 50 viruses which definitely cause cancers in frogs, chickens, rabbits, squirrels or mice.

Beard, however, observed particles in tissue cultures of human leukemia cells which he thought could be virus particles but the identification was anything but certain. Other scientists on the same panel minimized the possibility that the particles were of a viral nature. They emphasized that viruses had never yet been found in human body cells.

Work In Harmony
Why should human body chemistry be exempt from such viral invasion? It would not be natural if it were. Beard sliced up the body cells of chickens which contained viruses that had caused those cells to become malignant. Cohen got inside the

cells of a particular kind of bacteria which were under attack by a particular virus specialized in those cells.

Beard found that cells and viruses were working in more or less perfect harmony for one purpose, which was to manufacture new viruses which would then take over more normal cells which would likewise become virus brooders. The cell wasn't harmed but its basic nature was changed. It now served the virus rather than the chicken. It divided into new cells more rapidly and the more rapidly it divided (up to

a certain point) the more new cancer-causing viruses were produced.

In this connection, the common and well-known viruses, such as polio and influenza viruses, kill the cells which they invade. Beard showed that this chicken virus by enslaving the cell rather than killing it, caused a "complex of diseases," rather than one relatively simple cancer. Not all were malignant, but those which were included two types of leukemia, or blood cancer. It demonstrated there are varieties of ways viruses can cause cancer (in chickens).

'Pause for Springtime' Claimed Hollow Drooper, A Dally and Dawdle Hour

By WILLIAM EWALD
UPI Correspondent

New York—UPI—America Pauses For Springtime," a special unspooled by CBS-TV Monday night, was a flat and hollow drooper, a dally and dawdle hour without substance or much point.

Its format was an unblushing swipe of NBC-TV's old Wide World series, but the curious thing about the CBS-TV hour was that it might just as well have been shot in a studio.

Through the use of tape and film, the show kangarooed to such stops as San Francisco, Hollywood, Augusta, Ga., West Point, N.Y., Colorado's Garden of the Gods and Louisiana's bayou country, but it never really scooped up the flavor of any of these areas.

Used as Backdrops
All of these points were merely used as backdrops for a snatch of song, a snippet of dance, a smidgin of chatter, none of it with much core or import. Genevieve, poised against a Louisiana tree, might just as well have been singing from a stage. Ditto Robert Merrill, badly lip-synching on a Manhattan ferry, and Bobby Jones talking about nothing in particular from a swatch of sterile greenery at the Augusta National Golf Club.

Jane Wyman spouted some awful gush in reverential tones while a film was being run off and she somehow managed to make some Emily Dickinson lines sound flabby. Another sequence from Broadway's "Flower Drum Song" convinced me I'm never want to see it.

Fairly Successful
From all this I expect a couple of moments. Marge and Gower Champion appeared in a section from San Francisco's Golden Gate Park and while they seemed to be more concerned with moving than dancing, the piece had some elan. Fairly successful, too, was a filmed bit from Coesse, Ind., that centered around a general store and Herb Shriner. The talk sounded suspiciously rehearsed, but it did

nothing to suggest that the show was anything but a studio production. The use of tape and film, the show kangarooed to such stops as San Francisco, Hollywood, Augusta, Ga., West Point, N.Y., Colorado's Garden of the Gods and Louisiana's bayou country, but it never really scooped up the flavor of any of these areas.

Tug Under Tow Sunk by Wave
Newport, Ore.—UPI—A giant wave hit and sank the crippled tug "Kumalong" Monday night as it was being towed into Yaquina bay by a 52-foot Coast Guard vessel. The three crewmen had been taken off earlier.

The Coast Guard had put a tow line on the 70-foot vessel after it developed leaks in rough sea earlier in the day. Attempts to pass pumping equipment to the tug from the Coasts Guard vessel failed.

The crewmen were Skipper Tom Evans, 43, Seattle; Clifford W. Hinkley, 50, Fort Angeles, and R. W. Careis, 41, Seattle.

The tug was en route from Seattle to San Francisco. It was valued at \$20,000 and owned by Charles Palmer of North Ridge, Calif.

The tow lines broke several times as the tug was being towed to the bay, the last time just as it was crossing the bar in rough sea.

Shortly after that a wave estimated at 30-35 feet smashed into the side of the tug, caving it in. It sank within a minute.

Parasites of Bacteria
"Don't think there is no relations to mammals," he said. Cohen's viruses are not cancer-causing. Their value for an ultimate understanding of virus-caused cancer is that they are parasites of a bacteria which can be studied in close detail for the chemical secrets of "a viral system."

The most astonishing secret he uncovered was that the virus and the bacterial cell get together chemically so as to manufacture seven kinds of proteins which hadn't been present before and a type of nucleic acid which so far as science now knows, is utterly unique in nature.

This latter is a discovery comparable to the discovery of a new planet, but since it is chemical rather than physical it won't cause as much excitement. Nucleic acids and proteins are "building blocks" in the chemistry of life and the combinations possible from seven new proteins and one unique nucleic acid runs into the hundreds of thousands.

Service Men
COMPLETES COURSE
Army Pvt. Eugene L. Edwards, son of Gerald H. Edwards, 1541 Oregon ave., recently completed the eight-week general supply course at Fort Ord, Calif.

Information School
Ashland—Army Pvt. John E. Converse, son of Mr. and Mrs. Alvin E. Converse, 110 Van Ness ave., recently was graduated from the Information School at Fort Slocum, N. Y.

ABOARD CARRIER
Three area men are serving with the U.S. Navy aboard the attack aircraft carrier USS Oriskany which was recommissioned earlier this month at Hunters Point Naval shipyard, San Francisco.

The men are David L. Wright, boilerman third class, son of Mr. and Mrs. V. L. Wright, route 2, box 188; Thomas J. Wray, airman, son of Mr. and Mrs. Joe Wray, route 2, box 668K, all Central Point, and Wayne S. Clymer, radioman third class, son of Mr. and Mrs. G. D. Clyman, 411 South C st., Eagle Point.

Police Investigate Dumping Report
Medford police yesterday investigated a complaint that a construction company was dumping trash and old machinery on Pepper st., a dedicated but unimproved city street northeast of the Big Y.

Police reported that the property on both sides of Pepper st. is owned by Marshall Bessonette, but that the exact location of the street right of way was uncertain.

ITALIAN POET DIES
Viareggio, Italy—UPI—Italian poet Elpidio Jenco, 60, died here Monday.

SAYS THE OLD TIMER:
For a guy that's really on the square, my Boss sure cuts some awfully crooked shapes! (When die-cutting labels, etc.) You see he is an expert on die-cutting; paper, cardboard, plastic, leather or felt. He's got scads of stock dies on hand, too, that will save you money on such jobs. Labels, tags, booklets, dance programs, menus, small signs, all have that "Tailor-made" look, when cut to special shapes. Embossing names or designs on covers, etc., give them that regal look, as does deckle-edging. We use all these processes.

ECONOMIST DIES
Paris—UPI—Andre Siegfried, 83, a noted French political critic and economist, and a well known author on the Americas, died Sunday.

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TO RECEIVE NEGROES
Vatican City—UPI—Pope John XXIII will receive more than 200 Negroes from 33 nations in a special audience Wednesday morning, Vatican sources said today. The Negroes are attending a congress in Rome on Negro culture, which ends today.

Bids Opened for Work in Medford

Tru-Mix Concrete company, Medford, is apparent low bidder for paving East Jackson st. between Bear creek and Genessee st., according to Medford public works department records.

Rogue River Paving company, Medford, is apparent low bidder for paving Columbus ave. between West Jackson st. and McAndrews rd., the records show. Petreth and Purdy company, Central Point, is apparent low bidder for installing curbs and gutters along this stretch.

The city council is scheduled to consider awarding contracts for these projects at its meeting Thursday evening. Bids were opened last Friday.

The Tru-Mix bid is \$25,254.85, compared to an engineer's estimate of \$24,876.60. Other bidders, all from Medford, include M. C. Lininger and Sons, \$26,871.75, F. L. Somers, \$29,966, and T. R. Florey, \$30,018.25.

Rogue River Paving's bid is \$3,465 against an engineer's estimate of \$3,960. Florey and Somers also bid on this project, at \$3,960 and \$5,775 respectively.

Petreth and Purdy's bid of \$2,603 was \$100 below the engineer's estimate of \$2,703. Somers, the only bidder, submitted a figure of \$2,940.

Catholic School Enrollment Reaches High of 4,892,261

Washington—UPI—Enrollment in U.S. Catholic schools has climbed to a record high of 4,892,261 students, it has been announced.

A nationwide survey by the education department of the National Catholic Welfare conference showed an increase of 616,409 in Catholic grade and high schools since the last such count two years ago.

The total includes 4,101,792 students in 10,195 Catholic grade schools. This is nearly double the 1945 enrollment. Catholic high school enrollment was found to be 790,469, an increase of nearly 90 per cent over 1945.

One Out of Seven
The U.S. Office of Education has estimated public grade and high school enrollment at 34,711,000 this year. On the basis of these figures, about one American child out of seven is now attending a Catholic school.

The rapid rise in enrollment since the end of World War II has confronted parochial schools with many of the same problems of plaguing public school systems, according to Catholic authorities.

Despite a prodigious building program in recent years, most parochial school systems have many overcrowded classrooms.

Like public schools, parochial schools also have a teacher shortage. While the membership of religious orders engaged in teaching has grown substantially, Catholic leaders say the increase in vocations has not been sufficient to fill the rapidly expanding need for classroom teachers.

As a result, parochial schools are compelled to rely increasingly on salaried lay teachers. In the past 40 years, it is estimated, the percentage of lay teachers has doubled. Today it is estimated that nuns and brothers (male members of Catholic religious orders) comprise about 80 per cent of the parochial school staffs, with lay teachers making up the remaining 20 per cent.

Rise in Maintenance
Because lay teachers must be hired at salaries generally comparable to those in public schools, authorities say, the result of this trend has been a substantial rise in the cost of maintaining Catholic schools.

No figures were published on the present costs of the Catholic school system. But some Catholic educators estimated that it would cost upwards of \$1,300,000,000 a year to provide public school facilities for all of the children now attending Catholic schools.

TOPS IN EXPORTS
Hamburg, Germany—UPI—West Germany last year exported the most vehicles in its history and now claims top place among the world's car exporters, the Hamburg Economic Information Service said today.

BANK BILL Tabled
Salem—UPI—The House Tax Committee Monday tabled a bill which would have reduced the corporation excise tax on banks from 9 to 6 per cent.

COLONEL DIES
Lisbon—UPI—Col. Esmeraldo de Carvalho, 72, a close friend of Prime Minister Oliveira Salazar, died Monday.

GET U.S. PLANES
Karachi, Pakistan—UPI—The U.S. Embassy here today confirmed that Pakistan's air force soon would receive the first shipment of American-supplied B57 jet bombers.

Danish Gym Team To Be at Hedrick

The troupe of 28 young Danes scheduled to appear at Hedrick Junior High school tomorrow night will present both gymnastic feats and folk dances.

Their object, it is reported, is "to present the ultimate in Danish physical education to the people of America." They are said to present the "absolutely finest in Danish gymnastics."

Gymnastics, a sport not so familiar to Medford, is taught in all Danish schools where it has developed from a tradition in Scandinavian countries.

Danes often join gymnastics clubs after being graduated from school, and the sport is among the country's most popular during the winter months.

The program tomorrow night, expected to last two to two and a half hours, will include fundamental gymnastics, advanced gymnastics, tumbling, apparatus work, courtesy dances and folk dances.

The troupe, while endorsed by the Danish government, gains its financial support from private initiative. The tour, the third of its kind in this country, is a non-profit venture.

Tickets are on sale today and tomorrow at a booth at Main st. and Central ave. and at Hudson's pharmacy and Purucker's music store. The program, scheduled to begin at 7 p.m. tomorrow, is sponsored here by the Medford Junior Chamber of Commerce.

JIMMY FIDLER DIVORCED
Burbank, Calif.—UPI—Hollywood radio commentator Jimmy Fidler and his 35-year-old wife, who were divorced Monday, still are living together in their home here. The couple agreed to continue living in the same home until other arrangements could be made.

TOURIST FIGURE
Rome—UPI—An estimated 100,000 tourists and pilgrims came to Rome and Vatican City during the Easter Holy Week, officials said today. A spokesman for the Rome Tourist Bureau said the number was about 10 per cent higher than in 1958.

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