

EATON'S RECORD BREAKING !!!DAYS!!!

THURSDAY
FRIDAY
SATURDAY

SHOWN BELOW ARE SPECIALLY PRICED ITEMS NOT SHOWN IN CIRCULAR

ABBE LANE IN ROME
Acress-singer Abbe Lane, recently divorced from husband Xavier Cugat, shows off her pet dog while sitting with film producer Darryl Zanuck at a cafe on fashionable Via Veneto in Rome yesterday. (AP Wirephoto via cable from Rome).

Scientists Guardedly Optimistic New Day At Hand In Cancer Fight

A cure for cancer? Many scientists now no longer think the disease is "hopeless" and feel guardedly optimistic that a bright new day in cancer research is at hand. The following article, the first of three, describes the latest theories on what causes cancer and what is being done in U.S. laboratories to find a cure.

By ALTON BLAKESLEE
Associated Press Science Writer
NEW YORK (AP)—The keys to the control of cancer appear close to hand.

There's a new stir of optimism among cancer specialists. They even speak hopefully of vaccines and pills to prevent or cure human cancers.

Present drugs sometimes cure a few types of cancers. Better surgical and radiation treatments are achieving cures of adding extra years of life to many cancer patients.

A WAYWARD GENE
It is becoming clearer now why cancer really is — it is a wayward gene, a basic control mechanism so m o n o g e n e wrong, like a really good boy who just refuses to study.

A better picture is emerging of what genes really are, and how nature uses a directing code to govern the complex of cells. In this search into the way, basic molecules of life help the explanation of why and how some cells give up normal ways to become free-growing cancer cells.

This path provides one unifying thread toward understanding the cause, treatment and prevention of human cancers. The keys seem tantalizingly close, but there is long and hard and inspired work to be done before ultimate victory.

And there's a human reason for optimism — the anger and determination of an army of scientists and physicians enlisted against cancer. Some lost members of their own families to cancer. Some work from the commitment of trained intellects against the challenge of mystery.

There is a great sense of urgency, says Dr. James T. Murray, assistant director of the Roswell Park Memorial Institute in Buffalo, N.Y. "We must apply research knowledge as quickly as possible to human benefit."

ONE SON DIED
One of his sons died of leukemia. Sitting at his desk one morning, dressed still in green surgical scrub clothes, Dr. Grace pointed to a motto on his wall: "Reasoned heresy versus unreasoned orthodoxy—the scientific challenge."

It is his reminder, he explains, of the need for bold, imaginative thinking, for will to press to gamble on provocative new concepts, to break away from entrenched viewpoints.

VIROS IS THE CAUSE?
A dozen or more researchers, including Dr. Grace, have turned up powerful circumstantial evidence that a virus or viruses cause human leukemia, or blood cancer.

that viruses would have the same way in man too. Conclusive proof that viruses actually cause human cancer is difficult to pin down. But present knowledge about virus behavior fits neatly with the concept of cancer as a wayward gene. In simplest terms, this is the story:

Genes determine all inherited characteristics, such as eye color and shape of ears. They also tell living cells what to do, how to behave, whether to be skin or liver or stomach cells. They either control or are part of the machinery that also tells cells when to stop growing.

COMPOSED OF AN ACID
It is known that genes are composed of deoxyribonucleic acid, or DNA for short, formed into long strands or strings. Many little sections along the strand are the separate genes. A human cell has at least 10,000 such genes.

Nature employs a code, at basically wonderful simplicity, to inscribe all the information that each gene carries. This code uses essentially only four letters or chemical bases. Somewhat at the Morse code can spell out any message just with dots and dashes so the arrangement and repetition of the four chemical letters can form specific words or instructions for life relayed by each gene.

Cancer is being viewed as essentially a change in the instructions encoded in one or more genes, or in the sequence in which they pass along their usual instructions. Some quality has been added or subtracted, or altered. Cancer thus represents a wayward gene.

Cells so affected just keep growing and dividing, doing little or none of their once normal duty. **CELLS INVADIED**
Viruses are essentially just packets of genes. Invading a cell, some viruses commandeer its machinery, killing the cell, forcing manufacture of more viruses.

And some viruses can apparently sabotage cells in ingenious fashion, giving cells some of their vital genetic information, leaving a fingerprint, so to speak, with the cell then continuing to live and reproduce this altered genetic mechanism.

It is also theorized some viruses—or chemicals or exposure to radiation—may activate or fire up a latent or existing virus which has been surviving innocently in a cell for years. This may include the quality known as cancer.

Viruses may not be the full story, by any means. Chemical agents, or X-rays, or too much ultraviolet light or other agents may score a hit upon a gene to scramble its message, with no virus being involved.

The encouraging aspect is that scientists are drawing closer to understanding the basic mechanism explaining why a gene goes wrong to allow cancer to appear. Some of the fog of mystery is clearing away. This approach offers new insights into methods of avoiding or preventing, or correcting, the change in the genetic message. It may make it possible to step in at some point in a sequence of biochemical steps within the cell to keep it from going all the way to irresponsible growth.

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Market Savvy Brings Woman A Partnership

By GORDON GRANT
TORONTO (CP)—Violet Cook is doing nicely in a man's world, thanks somewhat to the fact that there's no sex discrimination about money.

"You're dealing in dollar bills in this business," says Canada's first full female partner in a brokerage house. "If a client loses dollars he gets mad without thought of whether you're a man or a woman."

Pellie, grey-haired Mrs. Cook is in the language of the financial district, a customer's man. There aren't enough women at it to warrant feminist terms.

As a customer's man, she advises clients and buys and sells securities for them. It calls for market savvy, and her's earned her a partnership in 1961 in the firm of Doherty, Roadhouse and McCaig Brothers.

But breaking into the almost exclusively male circle of Bay Street was a long struggle. She started off 27 years ago, after a divorce, by addressing envelopes in a brokerage house. She began leading a hand to anyone who was busy after closing her own work, and eventually got around to all phases of the business. Meanwhile, she took night courses five nights a week.

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