ON THE AIR

SATURDAY PROGRAMS

CFCY TV

3.00 p.m.—Musicale
3.28 p.m.—Sign On
3.30 p.m.—Baseball Game of the Week—
San Francisco vs. Chicago
5.30 p.m.—Bugs Bunny
6.00 p.m.—20-20
6.31 p.m.—Countrytime
7.01 p.m.—CFCY TV News and Weather
7.15 p.m.—TBA
7.30 p.m.—To Tell The Truth
8.00 p.m.—Hancock
8.30 p.m.—Desilu Playhouse
9.30 p.m.—Beverley Hillbillies
10.00 p.m.—Great Movies
Rhapsody
12.00 a.m.—CBC TV News
12.08 a.m.—Local Weather
12.10 a.m.—The Late Show
Destiny
1.15 a.m.—Sign Off

CKCW TV

3.27 p.m.—Station Sign On
3.30 p.m.—Baseball Game of the Week
5.15 p.m.—Emmett Kelly Cartoons
5.30 p.m.—Bugs Bunny
6.00 p.m.—20-20
6.30 p.m.—Television News, Weather, Sports
6.40 p.m.—The Early Show
Manhunt in the Jungle
8.00 p.m.—Hancock
8.30 p.m.—Theatre
9.00 p.m.—Candid Camera
9.30 p.m.—Beverly Hillbillies
10.00 p.m.—Great Movies
Rhapsody
12.00 p.m.—CBC TV News
12.10 a.m.—Lionel Network News
12.15 a.m.—The Thrillers

SUNDAY PROGRAMS

CFCY TV

2.30 p.m.—Musicale
3.00 p.m.—World of Sport
Wimbledon Tennis Singles
4.00 p.m.—World of Sport
Wimbledon Tennis Doubles
5.00 p.m.—Country Calendar
5.30 p.m.—Summer Magazine
6.27 p.m.—CBC TV News
6.30 p.m.—Billy Graham Crusade
7.30 p.m.—Ripcord
8.00 p.m.—Hazel
8.30 p.m.—Chorus Gentlemen
9.00 p.m.—Ed Sullivan Show
10.00 p.m.—Bonanza
11.01 p.m.—A Second Look
11.30 p.m.—Question Mark
12.00 p.m.—CBC News
12.08 a.m.—Local Weather
12.09 a.m.—Sign Off

CKCW TV

2.57 p.m.—Station Sign On
3.00 p.m.—World of Sports
Wimbledon Tennis Singles
4.00 p.m.—Wimbledon Tennis Doubles
5.00 p.m.—Country Calendar
5.30 p.m.—Time for Adventure
6.27 p.m.—CBC-TV News
6.30 p.m.—Metro Theatre
Crash Landing
8.00 p.m.—Hazel
8:30 p.m.—Chorus Anyone
9.00 p.m.—Ed Sullivan
10.00 p.m.—Bonanza
11.00 p.m.—Second Look
11.30 p.m.—Question Mark
12.00 p.m.—CBC TV News
12.10 a.m.—Lionel Television News
12.15 a.m.—Station Sign Off

CFCY RADIO

SATURDAY

6.28—Sign On
6.30—News & Weather
6.35—Country & Western Roundup
6.55—News & Weather
7.00—Hebrew Christian Hour
7.15—Country & Western Roundup
7.30—News & Weather
7.35—CFCY Farm Report
7.41—Country & Western Roundup
8.00—News
8.11—Weather
8.16—Country & Western Roundup
8.45—Weather
8.50—Atlantic News
9.00—News & Voice Reports
9.10—Keyboard Melodies
9.25—Notes & Music
10.00—News & Weather
10.05—Notes and Music
11.00—News and Weather
11.05—Notes and Music
11.55—Atlantic News Roundup
12.00—Weather
12.05—Band Parade
12.30—News & Weather
12.45—Mostly Music
1.00—News Headlines & Weather
1.02—Tops in Country and Pops
1.30—RCAF Report
1.35—Tops in Country & Pops
2.00—News & Weather
2.05—Tops in Country and Pops
3.00—News & Weather
3.05—Tops in Country and Pops
4.00—News & Weather
4.05—Tops in Country and Pops
4.30—The Outports
5.00—News and Weather
5.05—The Outports
5.25—Marine Weather
5.28 The Outports
6.00—News & Weather
6.15—Sports Parade
6.20—Report From Parliament Hill
6.30—Waltztime
7.00—Back To The Bible
7.30—News & Weather
7.45—Saturday Night Hoedown
9.25—CBC National News
9.30—NHL Hockey and the Outdoorsman—CBC
11.30—Music till midnight—CBC
12.00—Marine Weather & Sports
12.15—Sign Off

CBA

SATURDAY

6.00—Music On The Menu
7.00—Music On The Menu
8.00—CBC News & Inland Weather
8.15—Maritime Sportscast and Sports Scene
8.45—Songs Around The World, Jr. Farm B'cast
9.00—CBC News and From Our Own Correspondent
9.10—Music For Saturday
10.00—Traveller's Check
10.30—Hobby Club
11.15—Careers
11.30—Bandstand
12.00—Luncheon Date
12.30—Maritime Jr. Farm B'cast
1.00—CBC Inland News & Weather
1.15—Opinion
1.30—Encore
1.59—D.O. Time Signal
2.00—Off the Record
2.15—Stories in French
2.30—Pratley at the Movies
3.00—Opera Time
4:30—News
4.33—Saturday Sports Date
7.00—CBC News
7.07—Inland and Marine Weather and Sports Scores
7.15—Let's Play Bridge
7.30—On The Move
8.00—Radio Int'l Halifax
10.00—National News CBC Inland Weather & Sports Roundup
10.15—Sportsmen Almanac
10.30—The Saturday Set
11.00—Warners Wax Works
12.00—CBC News, Sports Scores, Inland and Marine News
12.15—Dance Date
11.05—Starlight Serenade
11.30—News & Maritime Weather
11.35—Starlight Serenade
12.00—News Regional Weather
12.05—Sign Off

CFCY RADIO

SUNDAY

7.30—Sign On
7.32—Sacred Heart Program
7.47—News & Weather
8.00—La Bonne Nouvelle
8.30—Radio Bible Class
9.00—News & Weather
9.10—Sunday School By Radio
9.30—Bible Institute Broadcast
10.00—Sunday Morning Magazine CBC
10.30—Weather & Maritime Gardener
10.45—Neighbourly News
11.00—Local Church Service
12.10—Interlude
12.15—World Church News
12.30—Old Fashioned Revival Hour
1.00—News & Weather
1.15—Tell Us A Story
1.30—Voice Of Prophecy
2.00—News CBC
2.03—Capital Report CBC
2.30—World Vision
3.00—Where The Bible Speaks
3.30—Church Of The Air CBC
4.00—News CBC
4.03—Hebrew Christian Hour
4.18—Bible Chapel Broadcast
4.30—Hour Of Decision
5.00—Project '64
6.00—News & Weather
6.15—Showers Of Blessng
6.30—I.Q Quiz
7.00—Peoples Gospel Hour
7.30—Family Bible Hour
8.00—CBC Sunday Night
10.00—CBC National News
10.10—Weekend Review & Special Speakers
10.30—Starlight Serenade
11.00—News & Regional Weather

CBA

SUNDAY

7.00—CBC News
7.04—Inland & Marine Weather and Music for Sunday
8.00—CBC News
8.04—Music For Sunday
8.45—World Church News
9.00—CBC News
9.05—Postmark U.K.
9.30—Inland Weather and Maritime Gardener
9.45—Neighborly News
10.00—Sunday Morning Mag.
10.30—CBC Halifax Strings
11.00—CBC News
11.03—Inland and Marine Weather
11.15—Looking through the Papers
11.30—Records in Review
12.00—Sing Something Simple
12.30—Stranger at Home
1.00—BBC News & Commentary
1.15—Inland and Marine Weather
1.30—Keyboard and Strings
1.59—D.O. Time Signal
2.00—News CBC
2.03—Capital Report
2.30—Hermit's Choice
3.30—Church of the Air
4.00—CBC News
4.03—Critically Speaking
4.30—Music In The Air
5.00—Venture "The Komagata Maru Affair"
6.00—News Weather & Sports Scores
6.15—Living Words
6.30—Carl Tapscott Singers
7.00—Here Come the Clowns
7.30—On the Move
8.00—Introduction To Sunday Nite
8.20—Modern Music 'Cathy"
8.30—Baberior
9.00—Drama: Dear Liar
10.00—CBC Nat'l News
10.10—Weekend Review and Special SSpeaker
10.30—Intro. to Sun. Nite Part 2
10.40—Transcription Music. Italian Baroque
11.00—In Dispute
11.30—Teleman and Co.
12.00—CBC News
12.03—Sport Scores and Marine Weather
12.15—Pops Concert

Scientists Said On Trail Of Drug With Cancer Curing Probabilities

By ALTON BLAKESLEE
Associated Press Science Writer

NEW YORK (AP)—The drug that can cure cancer is probably already known.

It is one among about 1,000,000 known organic chemicals whose formulas have been worked out over the years. Chemistry cookbooks tell how to make them again.

But the situation is like having a million keys to a lock and, worse yet, no clear conception of what the lock looks like.

Laborious trial-and-error testing of thousands of chemicals against animal cancers has turned up a couple dozen drugs which do or may act against human cancers. They kill or poison cancer cells, but unhappily not without some similar effects upon healthy cells, or they have other drawbacks.

Now scientists are on the trail of new methods toward finding the effective key or keys. The lock, they believe, involves a "wayward gene" directing cells to follow an abnormal destiny.

A curative drug might act in any of several ways.

MIGHT BLOCK ACTION

It might block the wayward gene from action, like a football guard taking out a would-be tackler.

Or it might unscramble the scrambled message carried in the DNA of the responsible gene. Genes are composed of DNA or deoxyribonucleic acid formed into long strands or strings.

Or a curative drug might interfere with RNA, another nucleic acid which acts as a messenger carrying the DNA code from the DNA molecule to factories in the cell which all the proteins and enzymes and stuff of life of a cell are made.

It might act to put the correct message back into the cell machinery, in place of the cancer message.

Or, as Dr. Aaron Bendich of Sloan - Kettering Institute remarks, the trouble in cancer might be that the genes or segments of DNA in a chromosome are rearranged. If DNA plays out its instructions in sequence, like a tape recorder, in cancer the tape recorder might be starting at the wrong point. A chemical agent might be found to put the messages back into the proper order.

CHEMICALS MAY BE FOUND

As the elaborate mechanisms of cell behavior become clearer, then specific chemicals might be found, or tailored, to right the wrong steps taken in the cancer cell. It would well be a chemical first formulated many years ago, with its capability still unknown.

A few drugs winning some benefits against cancers are known to act in this fashion. An antibiotic, actinomycin D, apparently combines with a specific part of the DNA thus interfering with transcription of the genetic message, Dr. Bendich explains. But it probably acts against all DNA, not just that of cancer cells.

And a newer class of drugs, the hydroxyl amines, invades cells to chop the DNA strands just at certain places.

Dr. Bendich thinks they hit at punctuation points, the periods and commas separating the genes or bits of DNA in the whole strand making up a chromosome. Changes in the shape of the chromosome, caused by these drugs, can be seen under the microscope.

The separate messages carried by each gene are not lost. But the sequence is rearranged. This can be fatal to a cell, or might give it its cancer quality. Feed - back controls that take part in sequential action of separate genes may be lost or upset.

DRUG NEEDED

If this is the mechanism then a drug is needed that would straighten out the tape recorder sequence of the cancer cell.

So it goes, in the laboratory, part of the drama of human intellect against cancer.

It is waged also in the hospital and clinic, with growing optimism. Now through research and clinical knowledge, "cancer is becoming a manageable disease," says Chicago's Dr Charles Huggins.

"Only in a few instances now should we say that cancer is a hopeless disease," says Dr James T. Grace Jr. of Roswell Park in Buffalo. "There is always practically something that can be done to add to comfort. We can add life to a person's time, not just time to his life."

THREE WEAPONS USED

The weapons are three—surgery, radiation and drugs now in increasing number.

Dr. Sidney Farber of Children's Hospital in Boston, a famous pioneer in chemotherapy or drug treatment of cancer, declares: "I don't believe we have yet begun to see the great returns we are going to see from chemotherapy."

He has battled particularly against acute leukemia in children, witnessing, as others have, an extension of some months of healthy life, and perhaps a rare and occasional cure.

Drugs have produced apparent cures in choriocarcinoma, a rare disease of the uterus in women, and in wilms' tumor of the kidneys in children.

Based on growing clinical experience, drugs are being used with increasing benefit in tandem, or simultaneously, taking aim on the wayward gene and its effects, sometimes with ingenious techniques of administration.

RIPLEY'S BELIEVE IT OR NOT

CONTRACT BRIDGE

By B. JAY BECKER

East dealer.
Neither side vulnerable.

NORTH
♠ Q J 10 7 3
♥ 8 7
♦ 10 7 2
♣ J 10 7

WEST
♠ 5 2
♥ A 9 6 5
♦ K J 8 5 5
♣ A 5

EAST
♠ 6
♥ Q 10 4 3 2
♦ Q 9 6 4
♣ K 6 3

SOUTH
♠ A K 9 8 4
♥ K J
♦ A
♣ Q 9 8 4 2

The bidding:

East	South	West	North
Pass	1 ♠	2 ♦	2 ♠
3 ♦	4 ♠		

Opening lead—ace of clubs.

Israel had its big moment of glory during the 1964 World Bridge Olympiad when their team defeated Italy 5 victory points to 2.

The accompanying hand contributed heavily to the unexpected win. Itzhak Ellenberg and Louis Rozeanu were respectively North - South for Israel and quickly arrived at four spades. Had the Italian West led a diamond, Rozeanu would have made four spades with ease.

But the Italian West led the ace of clubs and, receiving the six from partner, continued with a club. East took the king and returned the three, which West ruffed.

West could have beaten the contract at this point by cashing the ace of hearts, but he had no idea that South had two clubs left. Declarer had cleverly played the 8-9-Q of clubs on the first three tricks and had concealed the 4-2.

West played a diamond at trick four and it was curtains for the defense. Rozeanu drew trumps, discarded two hearts from dummy on the 4-2 of clubs, and made four spades. No doubt many players holding the West hand would have fallen into the same trap, thinking there was no urgency about cashing the ace of hearts.

When the hand was played at the second table, with an Italian pair now North- South, the bidding went:

INSERT BIDDING

Playing the Neapolitan Club, South's opening bid showed at least 17 high - card points. North's two spade response showed at least a five-card suit and at the same time denied possession of an ace or a king.

East led a low heart and West won the jack with the ace. Knowing that East had the king of clubs, West led the ace and another club, got a club ruff, and North went down one.

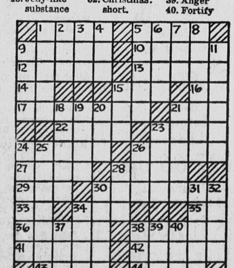
Israel gained 470 points on the deal.

DAILY CROSSWORD

ACROSS
1. Pummel
5. Fish
9. Play
10. Kind of mosquito
12. Pert. to the ear
13. Thin soup
14. Part of "to be"
15. Exclamation
16. Recto: abbr.
17. Quake
21. A seed vessel
22. Earth
23. Grating
24. Frighten
26. Covered with chimney dirt
27. A knight's "boy"
28. Wandering workman
29. Presidential nickname
30. Capital: Nova Scotia
33. Radium: sym.
34. Thick pad
35. Printer's measure
36. Come in
38. A regal headdress
41. Fry lightly
42. A sachet powder
43. Branch
44. Gr. community

DOWN
1. Skirmish
2. Audience
3. Candlenut tree
4. Dancer's cymbals
5. Cavalry sword
6. In this place
7. Fuss
8. World's auto center
9. Platform
11. Inferior in grade
15. Jelly-like substance
18. Custom
19. French illustrator
20. Perish
21. A test
23. Asian desert
24. Extra tires
25. Beach houses
26. Coin: Peru
28. Head covering
30. A seraglio
31. Eagle's nest
32. Christmas: short.
34. Apportion
37. Exclamation
38. Old weight for wool
39. Anger
40. Fortify

Yesterday's Answer



7-11

DAILY CRYPTOQUOTE — Here's how to work it:

A X Y D L B A A X R
is L O N G F E L L O W

One letter simply stands for another. In this sample A is used for the three L's, X for the two O's, etc. Single letters, apostrophies, the length and formation of the words are all hints. Each day the code letters are different.

A Cryptogram Quotation

OWMXTMMWEZ: H LASKEO EY XEZYWULWZF ESKAUM WZ SKAWU AUUEUM.—HLPUEMA PWAUXA

Yesterday's Cryptoquote: HAPPINESS FOR ME IS LARGELY A MATTER OF DIGESTION.—LIN YUTANG

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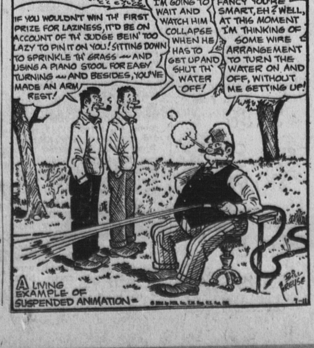
OUR BOARDING HOUSE MAJOR HOOPLE



GRANDMA

MICKEY MOUSE

NUBBIN

SECRET AGENT X-9

ETTA KETT

HENRY

JOE PALOOKA

MUGGS & SKEETER

THE LONE RANGER

L'IL ABNER