Genetic detective hunts down killer

Daniel Van Dyke has seen more lood stains than Sheriock Holmes. He searches for evidence under mi-roscopes, on slides and in specimen

jars.
It may take him six years and \$1 me

million to crack a case, but in the end he lingers the culprit and lives to write about it in prestigious medical jour-nals. Van Dyba and his colleagues tracked down a potential killer earlier this year down a potential killer earlier this year in a landmark cancer study that may generate more investigation of "chro-



🖟 retirement memos

Margaret ้ เป็ Miller

Morning beach offers best start for a day

One thing you learn when living in Florida is that activity on summer lays should come early in the morning.

days should come carry in the interminaToo hot later on.
But when you're living in Florida as a
retiree, you also realize there's no
reason why living patterns can't be
rearranged. And since Joe and I are
neither mad dogs nor Englishmen, we
stip the noonday sun and do most of
our beachwalking and swimming in the
relative cool of the morning.
My husband likes to start the morning with coffee and newspaper whatever the time of year, but in these
months I sually bead for the beach as
the day's first order of business.

OUR PART OF the beach early on a summer morning is a beautiful, empty stretch. Well, maybe not quite empty, I discover as I begin my walk along the

discover as a regain up water's edge.

Down on the sand that fronts a small trailer court sits a fisherman who has thrown a line into the gulf to see if they're blting early.

The fisherman isn't alone either, but I don't see his companion until I'm rearby untern.

I don't see his companion until I'm nearly upon them.
Grey-blue feathers of the Great Blue Heron bled toto the early morning sand color as the big bird waits, patient and still, for any small fish that might be thrown his way.

After I pass the fishermen, a couple of women emerge from the trailer court. Is that a pet bird, they ask me. No one's pet, I'm glad to fill them in, but he's absolutely unawed by people on the beach and friend to everyone with a fishing pole and line.

WINDING MY WAY down the beach, have the company of gulls, terms and n occasional egret. I also find I've ac-

St l'harles

quired a bandful of pretty shells. I meet another abell gatherer where a hill of sand stands as a monument to unsuccessful efforts to dig a new pass.
This beachcomber has a bag full of treasures. "Is that all you've found?" she asks, looking at my scant collection. I explain I have to be fairly selective or there wouldn't be room for us in the apartment.

I complete the walk down by some

glasses and beach hat out of my bag for the return frie. Do do he had walk back, the birds and I have more company. People are coming down from the county park for their day at the beach. More flaher-persons are out. Aroman of breakfast cooking waft from the trailer court.

THEN IT'S BACK to bome base, for maybe a quick dip in the gulf and for sure, a swim in the condominium pool. The water there is coolest in the mirring and feels marvelous after a couple of the water the baseh.

If it's a day I'm lucky, I find waiting for me a big osprey that this summer has sort of adopted our pool to watch

over.

After a number of laps, it's time for breakfast and whatever pressing business the day offers. The summer beach is a neat retirement dividend in Florida. I once more marvel at the good fortune that brought us here to enjoy it.

Margaret Miller was Suburban Life editor for Observer Newspa-pers for 16 years. She and her hus-band, Joe, have retired to Florida, where she writes Retirement Memos.

Fashlon

Kitchens

TECHNICALLY, THE Troy resident's title is director of the eytogenetics laboratory at Henry Ford Hospital, Detroil. But is director of the eytogenetics laboratory at Henry Ford Hospital, Detroil. But his day-to-day work as a researcher makes him something of a genetic detective.

"Research can be very frustrating." There are a few time is no person's carreer that he has a few good ideas and a few had ideas. In research you make a few decent discoveries and the rest of the time is hacking away, he said.

Although Van Dyke's study of medullarly throid cancer was in some ways a "abot in the dark," It was worth the six-year effort, he said. The project may lead toward new diagnostic tests which will identify patients who are at risk of developing a hereditary form of the disorder.

The disease is one of about 2,000 all-ments considered "dominantly inherit-ed," or capable of being passed from parent to child through genetic patterns.

VAN DYKE, Dr. Charles E. Jackson, chief of the Clinical Genetics Division, and V.R. Babu, associate cytogenetics director, studied 15 families using a technique that enabled them to see line detail in chromosomes under a micro-

detail in chromosomes under a microscope.

Everyone has 23 pairs of chromosomes, which are made up of genes
that supply hereditary information. The team discovered that some genetic
material was missing in chromosome
20 in many patients with the discose.

Van Dyke said the procedure used to
identify chromosomes in the study is
impractical as a disgnostic tool. He
bopes the information will give other
accentists a clue to developing less expensive, reliable tests.

ensive, reliable tests.

"OUR NEXT task, should we decide to accept it, is to look at more of the 2,000 inherited disorders and see if we can find other genetic causes of cancer that have pieces of chromosomes missing in sufficient quantity, he said.

With this study, we had an inkling of what we saw in it five years ago. We did a pilot that looked good. Then we did a pilot study that didn't look good and we nearly gave up."

With technical problems fromed out, the third try 'turned out nice."

THE TEAM sent an "abstract" or summary of its work to a research seminar. By the time they were ready to publish the full results last year, physicians and geneticists working in

the field of thyroid cancer were familiar with the project.
Toey sent the four-page report, entitled "Chromosome 20 Deletion in Human Mulliple Endocrine Neopleata Types 2A and 2B: A Donble Blind Study." to the New England Journal of Medicine, a widely circulated publication.

We wanted everyone to see it be-cause we thought it would have broad implications to physicians and geneti-

cista."

THEY ENDED up with a rejection letter and list of criticiams from the publishers.

Van Dyke guessed that the previously publisher accepting the study.

"It was a controversal project and the people who received the article had sufficient doubt about it and decided not to meas with it."

THE APRIL proceedings of the National Academy of Sciences, another widely, circulated journal, published the report.

widely, circumstate the report.

"It's a great feeling being able to share it with colleagues," he said, adding. The akeptics tend to bring you back down to earth.

"It could all have gone down the drain. If it does, you go on to he next nrolect."

project."
The key to successful scientific research is designing a project so "no matter what happens you learn something from it," he explained.

thing from it," he explained.

VAN DYRE, who is married and the father of two preschool son, studied genetic variations in fruit files as an undergraduate student. He carned a doctorate from Indiana University and joined the Henry Ford staff in 1976.

"When I was looking for a graduate school, I looked at programs where I'd be studying barley, pine trees, more fruit files or humans, I thought humans would be more interesting than pine trees, be chuckled.

WOREING WITH specimens rather.

working with specimens rather than actual cancer patients makes the job less erhausting emotionally, although Van Dyke is constantly aware in his 'heart that every specimen is from a cancer patient." I do see a lot of specimens, 'he admitted. 'But I spend a great deal of time working with (couples) in the the area of birth defects and prenatal diagnosis.

nosis.

"Henry Ford Hospital is no lvory tower."

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Daniel Van Dyke and a colleague go over some data in their re-search into thyroid cancer.

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also be available to answer ques-tions.

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