

Professors unlock disease cause

By BETH O'KELLEY
Staff Writer

Three UNC medical school professors have discovered why cystic fibrosis clogs the lungs. Drs. Michael Knowles, John Gatzky and Richard Boucher recently published their findings in the journal *Science*.

Their findings show that electrically charged particles of the element sodium pull water down through the cells that line the surface of the airways. The chloride ions that are supposed to take the water away in order to keep the moisture content balanced cannot penetrate the tell layer of people with the disease.

Cystic fibrosis is hereditary and rarely lets its victims live beyond the age of 30. The doctors have found that the moisture in the mucus of the airways is drawn out making it too thick to move through the lungs and perform the cleaning action it has.

Gatzky, of the School of Pharmacology, said that he and his colleagues have identified techniques that can be adjusted to correct the balance and keep the moisture at its correct level. They hope to be able to block the sodium absorption and reduce electrical activity back to normal levels, he said.

Cystic fibrosis is a hereditary disease that affects the lungs, liver and pancreas.

Large amounts of mucus are secreted which clog the lungs and prevent the liver and pancreas from secreting digestive enzymes so food cannot be digested properly. Most victims die of lung infections.

Doctors test for the disease by checking the amount of salt in sweat, saliva and tears. The most severe and earliest appearance of cystic fibrosis is discovered when a blockage is found in the intestines at birth.

This disorder, transmitted by a recessive gene, is possibly one of the most common and severe diseases. It is most common among whites. Most unaffected carriers who have children have one affected child out of four.

Reagan cancels Philippines visit

The Associated Press

WASHINGTON — President Reagan on Monday dropped the strife-torn Philippines and two other Southeast Asian nations from his trip to the Far East next month.

Reagan still plans to travel to Japan and South Korea in November, a spokesman said, but the dates may be changed and the trips shortened.

Blaming the press of congressional business at home rather than the bloody antigovernment rioting in Manila, presidential spokesman Larry Speakes said Reagan could visit the Philippines, Indonesia and Thailand when he goes to China next spring but that no dates have been set.

"The president has most reluctantly and with regret decided to postpone visits planned for this November to the Republic of the Philippines, Indonesia and Thailand," the spokesman said. He said Reagan had dispatched one of his closest aides, deputy chief of staff Michael K. Deaver, to Asia to deliver Reagan's personal letters of apology and assurances of continued good will.

He said U.S. relations with all three countries "are excellent, and we expect them to remain so."

Last week, when reports began to circulate that Reagan might not visit the Philippines because of the political turmoil there, President Ferdinand Marcos and his wife, Imelda, said such a decision could disrupt U.S.-Philippine relations and interfere with continued operation of major U.S. military bases in the islands.

Manila, Jakarta and Bangkok were to have been the first three stops on a 17-day, five-nation visit to Asia beginning in early November.

But Speakes said, "In view of the fact that Congress will be in session, that key appropriations bills have not yet been enacted and that a continuing resolution has been enacted but will expire Nov. 10, it is clear that the first two weeks of November will be particularly demanding legislative weeks."

In response to a question, however, the spokesman said Reagan is not committed to remain in Washington until Congress adjourns, which could be nearly two months from now, and could make his trip to Tokyo and Seoul near the dates previously

scheduled. The itinerary had called for Reagan to arrive in Tokyo early in the morning of Nov. 10, travel to Seoul on Nov. 12 and depart for home on the 15th.

"The president is disappointed that his original plans had to be changed, but the fact does not alter in any way the fundamental positive relationship between the United States" and the three countries involved, Speakes said.

Shortly before the announcement, Reagan confirmed that he might postpone part of his trip.

"There is a study and survey right now being made of the entire trip," the president told reporters as he posed for pictures with the visiting president of Cape Verde, Aristides Pereira.

Reagan said that "the survey is based totally on the changed situation in Congress, with them remaining in session, and it is not involving the dropping of any country that is scheduled on the trip and it is only a discussion of postponement."

His spokesman, however, did not deny that the president's safety was a matter of concern following the assassination of opposition leader Benigno Aquino in Manila and violent antigovernment demonstrations that have followed.

"All aspects were taken into consideration" when Reagan made his decision, Speakes said, when asked if security was a concern.

Speakes said Reagan decided to drop the three nations late Thursday, only a few hours after the spokesman had denounced a published report that consideration was being given to changing the itinerary.

Asked Thursday morning if he were willing to "make a flat statement there is absolutely no consideration being given to a change of the schedule," Speakes replied:

"I did. I said the trip is on."

He also said, "We always review security in every country we go to, but we've seen nothing to indicate — to change any plans for any country on the scheduled trip."

Reagan, in confirming that a change was under study Monday morning, said it was as a result of "the changed situation in Congress."

State and Nation

The Associated Press

BEIRUT, Lebanon — Gunmen fired mortars and rocket grenades at Lebanese army positions Monday, forcing Marines deployed nearby to scamper into bunkers and foxholes on maximum alert for the first time in a week-old truce.

In another flare-up later in the day, army tanks fired at Shiite Moslem militia positions in a southern slum after the Shiites fired mortar rounds and rocket grenades toward the Christian-populated area of Ain Rummeneh.

President Amin Gemayel called an emergency Cabinet session, saying procedural disputes have stymied his efforts to convene a national reconciliation conference among Lebanon's feuding sects. The delay has threatened to further unravel the civil war truce that began Sept. 26.

MUENSINGEN, West Germany — A mortar shell exploded in front of about 800 people watching drills by West German army recruits Monday, killing two officers and wounding 15 people, a military spokesman said.

West Germany Parliament deputy Fritz Wittmann was among those injured, an army press officer said.

The shell went off a few yards in front of the spectator area. It was not clear how the accident happened, said the officer, who according to West German custom requested anonymity.

He said several of the injured were in serious condition.

The spectators were standing on platforms supported by army trucks to observe shooting exercises by recruits, he said.

LYNCHBURG, Va. — Sen. Edward M. Kennedy, one of the country's best-known liberals, walked into the lion's den of conservatism, preaching his own brand of politics at a fundamentalist Baptist college Monday night as guest of the Rev. Jerry Falwell.

For Kennedy, it was an opportunity to speak to some of the "10 million voters who will never agree with us," said an aide.

For Falwell, founder and chairman of the Moral Majority, it meant sharing the platform with a man he has criticized in fund-raising appeals as an "ultraliberal." Falwell includes Kennedy on his list of "freezers," who he claims weaken America by supporting a nuclear freeze.

For just one night, at least, the name-calling seemed likely to stop.

Happy Store robbed of more than \$2,000 Monday

Between \$2,000 and \$2,500 was stolen during an armed robbery about 5 a.m. Monday at the Happy Store on the corner of East Franklin and South Columbia streets.

According to police reports, a man entered the store and told the clerk, who was alone at the time, that he had a gun in his pocket and demanded money.

The suspect was described as a black male weighing between 160 and 165

pounds, about 5 feet 10 inches tall, and wearing a dark green plaid coat, dark blue trousers and a ski cap.

He was last seen running south toward fraternity court. Police have no leads at this time, said Chief Herman Stone of the Chapel Hill Police Department.

Police reports also show that two UNC students were arrested Saturday morning and charged with stealing an air conditioner estimated at \$300 from an atten-

dant's booth in Municipal Parking Lot No. 1 on West Rosemary Street.

Charles Anthony Alario Jr., 18, and Steven David Daskal, 18, both of 504 Ehringhaus Residence Hall, were arrested about 1 a.m. by Chapel Hill police and charged with breaking and entering and larceny. They were placed under \$500 secured bond.

— SALLY SMITH

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announcements

USED AND UNFINISHED FURNITURE, we have more than anyone in Chapel Hill. The Trading Post, beside Wendy's in Carrboro. Free delivery with this ad. 942-2017.

APPLICATION FOR SCHOOL OF Nursing general college sophomores & UNC-CH juniors and seniors may pick up applications for 1984-85 academic year (beginning second summer session 1984) in room 15, Carrington Hall on October 6 at 7 pm. The application process will be discussed at this time.

DERBY WEEK CUPS and Pepsi are on sale in the Pit. Support Derby Week and the N.C. Lumber Society. Sold by Kappa Alpha Theta.

ALCOHOL SUPPORT GROUP. HAS a family member or friend's drinking influenced your life? You're not alone. Come share with others facing similar problems. No fee. Group meets Wednesday, 4-5 pm, in the Health Education Suite (2nd floor) of the SHS.

THE VIDEO COMMITTEE of the Carolina Union will meet today at 4:00. Please check room number at Union desk.

CONFUSED OR WANT to know more about the new alcohol laws? Come to the ALCOHOL FORUM Wednesday, October 5 at 7:30 pm in 100 Hamilton Hall.

lost and found

LOST NEAR HAMILTON, MANNING, truck: Engagement Ring, white gold. If found please call Lisa, 933-1163 or 962-3041 (poli sci). Keep trying. \$100 reward.

LOST: LADIES WHITE DUCK bag with navy trim at Wm Dole University Mall on Monday, Sept. 26. REWARD 967-8161.

LARGE REWARD FOR RETURN of camel colored suede jacket, last seen in bathroom, chapel fraternity; Thru, nite; Sept. 22. Please call Ellen 942-5664.

FOUND: ONE LADIES WRISTWATCH. Discovered in parking lot between Sigma Chi and SAE on Thursday night, Sept. 22. Call Chuck at 933-2474 for identity.

help wanted

PLAYMAKERS REPERTORY COMPANY is looking for a drummer for its production of *As You Like It* opening Oct. 6. Call Kim Kearney 962-1132 ASAP.

BLACK MALES & FEMALES — 445 will be paid to healthy non-smokers, age 18-35, who complete an EPA breathing study on the UNC campus. For more info please call 966-1253, Monday-Friday 9 am-5 pm.

BASKETBALL POSITIONS—TOWN OF Chapel Hill. Part-time, temporary; 10-20 hrs/wk, nights & weekends; early Nov. thru Feb., 1984. Must be dependable. Score/Timer positions require general knowledge of basketball; pay \$3.35/hr. Officials positions require exper. officiating basketball, preferably 1 season, or good knowledge of the rules; pay \$5.85/game. Apply by Oct. 14; Parks/Rec Dept, 200 Plant Rd. EO/AAE.

ASTHMA SUFFERERS — EARN \$75 in an EPA Breathing Study on the UNC campus. To qualify you must be male, 18-35, with currently active asthma. For more information please call 966-1253, Monday-Friday, 9-5.

RECORD BAR INCORP. HAS IMMEDIATE opening for junior or senior in accounting or related field with heavy emphasis in accounting areas. Candidates must have reached the intermediate level in their accounting studies. Excellent opportunity for practical experience in your field if you qualify. Candidate must be available during current school year and summer 1984. Write or call by Oct. 12, 1983. Employee Specialist, Record Bar Inc., P.O. Box 8744, Durham, NC 27707, 493-4511 EOE-M/F.

BURGER KING 205 E. FRANKLIN St. Now hiring for late night shift. If you can work 10 pm to 4 am, please apply after 8 pm. No phone calls.

GRANVILLE TOWERS DINING SERVICES is now accepting applications for part-time employment. Have a standard schedule and work with peers. Come by Granville Cafeteria for an application or call 929-0433.

services

ABORTION—TO 18 WEEKS. Free pregnancy test. 942-0824.

CASH FOR ALBUMS 45's and cassettes. Good condition only. Album Annex, Chapel Hill's best used record store. 108 Henderson St. upstairs. Buy, sell, trade.

CHEAP TYPING call 929-TYPE.

for sale

COLLEGE SWEATSHIRTS! Harvard (grey) — Yale (white) — Princeton (navy) — Dartmouth (blue) — North Carolina (lt. blue) — USC (white) — others \$12.50 each postpaid. S-M-L-XL. Send check to LMG, Box 317, Brookhaven, MS 39601. COD orders call 1-601-835-1085.

ROOM IN GRANVILLE SOUTH for upcoming Spring Semester. Need someone to buy my contract. Please call 933-0428. Ask for Sha Wallace.

MUST SELL NEW DROP leaf dining room table 2 coffee tables 2 glass top end tables 2 solid end tables phone 942-2439 after 6 pm weekdays anytime on weekends.

COMIC BOOKS: 1940s-1980s. Records: jazz, classical, oldies, swing, rock. Books: literature, history, science fiction, mystery. 10-7 every day. Books/Records/Comics, 215 North Gregory Street, Durham, 683-3244.

FOR SALE: DORM-SIZED refrigerator. Decent condition—making \$75. Call Sharon after 1 pm — 933-6375.

for rent

FOR RENT: ONE BEDROOM apartment, Gingham Road. One block from Law School. \$350/month. Call Little, Schmitt, Bryan & Worth for appointment 929-7174.

rides

DEAD HEAD NEEDS A ride back to Chapel Hill from Greensboro show. Can anyone out there help me? Call Joan 933-3618.

roommates

FEMALE HOUSEMATE WANTED. SOLAR townhouse. Furnished bedroom with balcony, hardwood floors. Fireplace, washer and dryer. Housebroken pets OK. 1/8 mile from campus. Grad. student preferred. \$250.00 negotiable + 1/2 utilities. Call Margaret at 968-0467.

FEMALE ROOMMATE NEEDED to share 2 bedroom/2 bath. Kings Arms Apt. On busline. \$115.00/mo. plus 1/2 utilities. Call 968-1570.

ROOMMATE WANTED TO SHARE two bdrm apt. on busline in Carrboro. \$125 and 1/2 utilities 942-6512.

RESPONSIBLE, NON-SMOKING FEMALE needing quiet 1st room should contact Terry at 942-2280 after 4 p.m.

EASY GOING FEMALE ROOMMATE needed for 2-bdrm. room in Greensboro. \$195 + 1/2 utilities.

2 PEOPLE NEEDED TO SHARE two bdrms in a five bdrm furnished house on Gingham Rd. 3 min. walk to campus. Rent \$130.00/month. Looking for well rounded undergraduates who are studious partners. Call 967-4768.

wanted

WANTED: DESPERATELY NEED 2 guest tickets for the Wake Forest Game! Call Lauren after 5:00. 967-7517 Thanks!

NEED BADLY! TICKETS FOR Wake Forest game. Call Pam at 942-1706. Please leave message if necessary.

HELP I NEED THREE guest tickets to the Nov. 5 Clemson game. Please call Holly at 933-6177 evenings are best times to call.

DESPERATELY NEEDED: ONE GUEST PASS to the Wake Forest-UNC game on October 8. Call 933-8651.

IF YOU HAVE AN extra Clemson guest pass, you have the means to make someone very happy. Please, let me be that someone! Call Steve 968-8143.

personals

TO DEBORAH, (PHI MU J, Trans.)—Did you know we first met at Kroger? I checked you out. Next time you tried to sell me a hot dog, but sold me a message. How about another meeting sometime soon? Maybe? Let me be that someone! Call Steve 968-8143.

HAPPY 19th BIRTHDAY BONITA—To a special person on her special day. The last week has been one of the best ever—I hope I never wake up from my dream because I'm loving every minute of it. xxxxxxxx Chucky.

ON FRIDAY, OCT. 7 the members of Hillel will be going to the Jewish Home for the Aged in Clemmons, NC to visit and lead Friday Night Services. We will be leaving Hillel at 2 pm sharp, and after services and dinner in Clemmons will return by 9 pm. Make an elderly person very happy—Call the Hillel office 942-4057 or Sam 967-7691, if you're interested in coming along, preferably by Wed.

YO COONITA, CORNWALLIS, SHEWANNA, and Scene. The Big Dog House continues to burn. "Socially. Here's to skunk Africa, social drinks, social bricks, and shinin' on de fire." Who says the party has to end on Saturday? We ain't playin'. We love ya'll. Smokeola and Bucketa.

JOIN US FOR ANOTHER terrific Hillel Doll! From 6-7:30 pm on Wednesday, Oct. 5, treat your taste buds to the New York style deli sandwiches with all the trimmings. 10% discount for Hillel affiliates.

HELGA-LEIN: HERZLICHEN GLUCKWUNSCH ZUM Geburtstag! (Das bedeutet "It's about time you turned 18" in German.) Lacheln! Katie.

APOLLO, THOU ARTE MY MOST treasured thought always in the house of Athena—21 years and eternally! Palas Athena.

THANKS APO PLEDGEMASTERS CAROLYN, Wendy, Lisa, and Art for the camping trip. (And to the bros that showed up! We'll remember flaming pledge books, midnight strolls, cost cutter cheese puffs, and a really great time! Thanks for putting up with us. Your sick APO pledges.

CONGRATULATIONS MIKE L. ON finally getting that deer! You deserve it more than anyone. I wish I had been there to see it. Love Barbara.

B.B. HILLEL, LEIGH-BIRD, Annie-Moo: DAMN WERE GOOD! But they ain't seen nothing yet. How's that for a "good answer"? Love, the manager.

KELLY D. HAPPY BIRTHDAY! Hope the future is as great as the present. Love more than ever! V.B.

TO DINA, GENIA, JOYA, Priscilla and Smitty—Thanks for caring and being there. I LOVE YOU ALL! Channele.

GET DELIRIOUS! TORONTO EXCHANGE night at He's Not Here — 25¢ draft and \$1 cover — Wed., Oct. 5 8-12 pm — Be there, Aloha.

DAMNIT SHANE! DON'T GET too active on your 20th birthday—thats what "she" said. Have another Beta night! Your cuz and backgammon Champ.

DIANE, LISA, and "TM Learning a lot about you" Sandy—Learn to like a ho, talk filthy to a ho, moonlight to Greenville, die in Fannie's, smelt/see roses at U.S. You make 20 educational — Thanx Bekah.

TO MOTHER WENCH and her girls, and other scheming souls, you pulled one over on me (no, not cornflakes! Thanks for the surprise, I'm still skittled. And, yes Lisa, they do it with a bigger blw/ang. Bekah.

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And Take A
Friend Home.