

By biology laboratories

Population control being studied

by Brad Stuart
Staff Writer

Finding methods of controlling human and animal population is the purpose of UNC Laboratories of Reproductive Biology, directed by Dr. H. Stanley Bennett.

Work was begun in the laboratories in 1969 with the aid of a Rockefeller Foundation grant.

Bennett sees the key to population control in the increase of the basic understanding of reproductive processes. "If something is not done very promptly, we will face a world-wide

catastrophe," Bennett warns.

The laboratories do not develop contraceptives but the discoveries made in their labs may provide bases for the development of new contraceptives or other methods for reducing the birth rate.

Thus, the work done by the laboratories are in the area of theoretical research and pure science, rather than applied science.

Bennett feels the research in reproduction may bring improvements not only in population limitation but also in pest and pollution control, animal

husbandry, agriculture, medicine, public health and other fields.

Specific studies in the Chapel Hill labs are in the areas of hormones, neurological controls and gametes.

Dr. Walter Stumpf, associate professor of anatomy and pharmacology, directs a laboratory studying the relationship of hormones to the nervous system and reproductive functions.

Using radioactive tracing of the hormones, Stumpf has discovered that sex hormones bind to certain neurons (nerve cells) not previously thought to play a direct role in reproduction. Stumpf has found a wide distribution of sexually

active neurons in the brain, which was thought to have only two main "sex centers."

Stumpf believes these neurons have important controlling roles in reproductive behavior and physiology.

Dr. Peter Petrusz, who will arrive from Stockholm this summer, will conduct studies on the chemical transmission of information between one part of the brain to centers controlling release of hormones controlling the sex glands.

Laboratory investigators are studying properties and functions of the sperm, including capacitation, the increase of the sperm's fertilizing capacity as it ascends the female reproductive tract.

Bennett hopes to be able to prevent capacitation at will, to provide a new contraceptive method.

Membrane study in gametes may also aid in contraceptive development. Bennett is studying fusion and recombination of membranes, processes which occur in fertilization and development. Ways to interfere with these processes are being sought.

Dr. Keiji Marushige, assistant professor of biochemistry, directs a laboratory in the molecular control of genes and the role genes play in cell specialization.

Large samples of animal gametes are hard to obtain and preserve, so Dr. Malcolm Brown is developing methods for culturing certain plants with similar male gametes to obtain these large amounts.

Bennett explained, "The more we study plant and animal gametes, the more alike they seem."

Because the population problem has reached crisis proportion, Bennett feels present methods for reducing the birth-rate should be used extensively, while new research and new technology is being developed.

UNC pharmacists honored

A number of top awards for exceptional service to pharmacy were presented to staff members of UNC School of Pharmacy at the 91st Annual Convention of the North Carolina Pharmaceutical Association in Durham.

with emphasis on highly successful drug abuse information programs.

Jesse M. Pike, Jr., director of the School's Student-to-Student Drug Abuse Program was awarded a certificate of appreciation for his leadership in bringing pharmacy students to secondary and junior high schools throughout the state in drug abuse information programs. Over

50,000 students have been reached by this group since September.

At the convention Dean Hager reported on the School's activities during the past year. Professor Claude U. Paoloni spoke on pharmacy education; Assistant Dean David R. Work reported on procedures for drug third party payments; and Robert J. Allen, an instructor in Clinical Pharmacy spoke on "Pharmacy Practice in a Community Health Clinic."

Professor Paoloni, director of Pharmacy School Intern/Extern program, presented certificates of superior performance to the following UNC graduates: Miss Joyce B. Long of Rockingham; Daniel J. Yates of Durham; Mrs. Judith K. Coan of Chapel Hill.

Assistant Dean LeRoy D. Werley Jr. represented the School of Pharmacy on the Executive Committee of the 1971 N.C.Ph.A. convention committee.

LUNCHEON SPECIAL
11:30-2:30

MON. ROAST BEEF DINNER W/ 2 Veggies & Rolls	97¢
TUES. 1/2 BBQ CHICKEN W/ 2 Veggies & Rolls	
WED. CHOPPED SIRLOIN W/ Mushroom Sauce W/ 2 Veggies & Rolls	
THURS. BBQ PORK RIBS W/ 2 Veggies & Rolls	
FRI. FILET OF FLOUNDER W/ 2 Veggies & Rolls	
Or ROAST BEEF ON BUN W/ 2 Veggies & Rolls	1.30

Selections Served With Soup & Salad—\$1.30

Carolina THEATRE ABC Theatre

William Shakespeare's
JULIUS CAESAR

No grander Caesar... No greater cast!

Charlton Heston - Jason Robards - John Gielgud

ALL NEW PRODUCTION

NOW PLAYING 12:50-2:50-4:50-6:50-8:55



GREAT GAMS

IT'S A COLLEGE CONTEST, GALS!

FIRST PRIZE

\$2,500

50 SECOND PRIZES

2 HANG TEN HOT PANTS OUTFITS & A PAIR OF SCHOLL EXERCISE SANDALS

50 THIRD PRIZES

A PAIR OF SCHOLL EXERCISE SANDALS

Could you be walking around on the Great Gams of 1971? Could yours be the great-looking legs worth \$2,500 cash, for your education or whatever else you please?

Could you be one of the 50 co-eds (one from each state) whose legs win you Second Prize, two great hot pants outfits by Hang Ten*—plus a pair of Scholl Exercise Sandals to keep those gorgeous gams in shape?

Runners-up from each state get Third Prize, a pair of Scholl Exercise Sandals.

Limber up those legs, gals. Go get the details at your Scholl Sandal display in local department, shoe or drug stores.



If you're not ready to put your legs on the line, get yourself a pair of Scholl Exercise Sandals, the ones with the exclusive toe-grip, the super-comfortable sandals that help shape up your legs while you walk.

CONTEST RULES: Send printed name, home address, signature and full-figure photo to Scholl Great Gams Contest, Box 812, Times Square Station, New York, New York 10036. Entries must be postmarked no later than midnight, July 31, 1971. Only girls enrolled full- or part-time in an accredited two- or four-year college or university (or 1971 graduates thereof) will be eligible. Winners will be chosen by an independent and impartial group of judges. Judges' decision will be final. All prizes will be awarded. No purchase required. Void where prohibited by law. All pictures submitted become the property of The Scholl Mfg. Co., Inc., and cannot be returned. Your signature indicates that you have read and understand the rules of this contest.

Campus news briefs

Board will govern Toronto Exchange

The Toronto Exchange will be directed next year by a governing board instead of the customary two chairmen.

The board will consist of Jimmy Bartel, Celia Benton, Susan Oldham, Carolyn Ross and Britt Nicholson. Chairmen will be Vincent Kopp and Edith Davis.

The Toronto Exchange is a program in which 30 UNC students travel to the University of Toronto and spend a week there. Thirty University of Toronto students reciprocate and visit Chapel Hill for a week.

Now in its 11th year, the program was initiated under the patronage of President William C. Friday of UNC and President Bissell of the University of Toronto.

'Spring thing' sale to begin Wednesday

The Kappa Alpha Theta pledge class will be selling "spring things" beginning Wednesday, April 28.

The pledge class project includes the selling of water guns, 35 cents; punch balls, 50 cents; and bubble blower mixture, 25 cents.

Those who want to make advance orders should call Linda Ketner, 933-1808, or call the Theta house at 968-9398.

Theta pledges will be selling the items during Jubilee.

Pence talk keynotes speech festival today

A two-day Speech Festival begins today with a speech by Dr. James W. Pence, assistant professor in the UNC Speech Division.

The festival is open to the public. Pence's speech, "The Rhetoric of Bernadette Devlin," is 8 p.m. in 103 Bingham Hall.

"Oratory in the New South and the Old South Contrasted" is the topic of a talk by Dr. Waldo Braden, chairman of the Speech Department at Louisiana State

University. Braden will speak at 2 p.m. Tuesday in 103 Bingham.

Two sessions of pre-selected student speeches will be presented at 4 and 7 p.m. Tuesday in 101 Greenlaw. Braden will serve as a critic at both.

Author or co-author of eight books, Braden is best known for his "Speech Criticism." He also has written numerous articles for speech and history journals.

He has served as executive secretary and president of the Speech Association of America, and president of the Southern Speech Association. From 1965-67, he edited "Speech Teacher."

Former SG candidate voted NCSL treasurer

Jim Flynt, former candidate for student body president, was elected treasurer of the North Carolina Student Legislature (NCSL) for 1971-72.

On Sunday, NCSL held an interim council meeting in the Carolina Union.

Representatives from Atlantic Christian College, Technical Institute of Alamance, Duke University, UNC, Greensboro College, UNC-G, Methodist College, St. Andrews College, N.C. State, Meredith, and Kittrel College attended.

Permission required for writing courses

Instructor's permission will be required before enrollment in some creative writing courses next fall. Others will be open without permission.

Students interested in taking English 34P under Wallace Kaufman and William Harmon, 35P under Carolyn Kizer, 34F under Doris Betts and 35F under Max Steele should see the particular professor in Greenlaw before May 6 pre-registration. Instructors may require the student to turn in a manuscript.

All other 34F courses will be open without permission.

USE
DTH
CLASSIFIEDS



Visit the future where love is the ultimate crime.

THX 1138

Starring Robert Duvall and Donald Pleasence

First Time in the Carolinas

SHOWS: 1-3-5-7-9

CHapel Hill
Varsity
121 E. FRANKLIN ST.

CAN YOU BE INDIFFERENT?

50,000 baby seals were killed in the Gulf of St. Lawrence and over half a million seals were clubbed, speared, shot, gaffed during the 1970 Canadian-Norwegian slaughter in the Atlantic.

Don't believe furriers who would persuade you that Friends of Animals has been "misleading" you, that any slaughter anywhere is done for the benefit of the seals.

I, Alice Herrington, testify that on March 21, 1970—the second day of the Canadian season on seals—I saw the same brutal massacre against which Friends of Animals, of which I am president, has been protesting for years.

As the bubble-domed helicopter flew low over the first day's kill, I saw mother seals nuzzling the skinless corpses of their babies. Standing ten feet away from the killers on the ice floes, twenty miles out in the Gulf, I saw baby seals, clubbed twice, raise their heads as they were sliced open. Other babies were battered as many as fourteen times while the mothers watched in terror and stress.

If You Are One Who Cannot Be Indifferent to the Suffering of Other Creatures

YOU CAN HELP

FIRST—by refusing to garb yourself in the agony of another, by refusing to buy the skins of wildlife.

SECOND—by causing this advertisement to be inserted in your local newspaper. (A mat will be sent upon your request to Friends of Animals. See coupon.)

THIRD—by sending a tax-deductible contribution to Friends of Animals, Inc.—a non-profit organization that intends to pound on the world's conscience until sentient men and women everywhere are made aware of the unnecessary cruelty and destruction being inflicted upon animals. Your contribution will be used to plead for those creatures who cannot speak for themselves but who dumbly implore your pity. For further information, call 929-3504.

FRIENDS OF ANIMALS, INC.
11 West 60th Street
New York, N.Y. 10023

Enclosed is my tax-deductible contribution to help stop the slaughter of marine mammals. Please add my name to your mailing list.

Send me a mat of this advertisement so that I can place this advertisement in my local paper at my own expense (also tax deductible).

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____