Gene Study Essential

Advances in human genetics must continue in spite of possible misuse of new knowledge

THE POSSIBILITY that harm could come from scientific discoveries cannot be used as an excuse to delay research until man is a more moral being, the Third International Congress of Human Genetics in Chicago was told.

Genetics in Chicago was told.

Dr. Curt Stern, professor of zoology and genetics at the University of California, Berkeley, said that man should not be denied the possibilities of new discoveries on genetic variability because there is the possibility of misuse of the findings

of the findings.
"Whether we like it or not," Dr.
Stern said, "we must face the fact that
all men are not born equal, especially
in intelligence potential. Differences in
the environment in which children are
brought up are not the only factors
which influence their intelligence potential."

Speaking on genes and people, Dr. Stern referred to discoveries about peas and mice, corn and flies, bacteria and viruses.

"There is no limit to the number of

"There is no limit to the number of stories which one could tell about genes and people," he said in a humorous vein. "It is amusing to say, as J. B. S. Haldane once did, that all love poetry owes its existence to a microscopic bit of matter, the sex chromosome—but have you every seen a naked chromosome compose a sonnet?"

More seriously, he discussed the inequalities with which children are born. He said that just as heredity can produce mental illness, it can also bring about mental superiority. "We are different in the genes we

"We are different in the genes we receive at conception, different in health

and disease, intelligence, endowment and personality traits," he reported. "Differences in the environment in which children are brought up are not the only factors which influence their intelligence potential."

Citing studies comparing adopted and "natural" children, he said that "children born into the upper social layers score considerably higher on intelligence tests than those of the lower layers, but children adopted into the upper groups score only moderately higher than those adopted into the lower group."

Dr. Stern referred to a recent dis-

Dr. Stern referred to a recent discovery that patients with a rare inherited disease, called the adrenogenital syndrome, score higher than average in intelligence tests. In this disease, the adrenal glands produce excessive amounts of male sex hormone.

We do not always like the truths that scientists discover, Dr. Stern implied. "Truth and the search for it can be suppressed not only by ill will but by good will," he emphasized. Nevertheless, there should not be any moratorium on research.

GENETICS

Genetic Surgery Is Far Away for Humans

DPTIMISM concerning application of genetic experiments to improve mankind is unwarranted now, a Canadian pediatrician told the Third International Congress of Human Genetics meeting in Chicago.

"The success of experiments in genetic transformation and transduction in microorganisms has encouraged some to hope that techniques of directed mutation could become available to benefit man," Dr. Charles R. Scriver of the Montreal Children's Hospital said.

Although striking and sometimes controversial experiments in genetic surgery have in fact been performed in multicellular systems, he explained, public demand seems likely to outstrip scientific resources for the treatment of many forms of genetic disease.

One practical example exists where basic principles have been used to control gene replication and transcription to advantage in man, he conceded.

"This is the control of viral ophthalmitis (eye inflamation) through the use of a urdine analogue" placed on the conjuctiva, or mucus membrane lining the eyelids and covering the front surface of the eyeball.

SCIENCE NEWS

SCIENCE NEWS LETTER

Vol. 90

September 24, 1966

No. 13

E. G. SHERBURNE JR., Editor

Watson Davis, Director Emeritus, Editor, 1922-66

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington, D. C. 20036. NOrth 7-2255. Cable Address: SCIENSERVC.

Subscription rate: 1 yr., \$5.50; 2 yrs., \$10.00; 3 yrs., \$14.50. Special trial offer for new subscribers only: 41 weeks, \$3.13. Ten or more copies in one package to one address, $7V_2$ cents per copy per week; single copy, 15 cents, more than six months old, 25 cents. No charge for foreign postage. Change of address: Three weeks notice is required. Please state exactly how magazine is addressed. Include zip code.

Copyright © 1966 by Science Service, Inc. Republication of any portion of SCIENCE NEWS is strictly prohibited. Newspapers, magazines and other publications are invited to avail themselves of the numerous syndicated services issued by Science Service. Science Service also produces and distributes THINGS of science (monthly), \$5.00 per year; produces and publishes books and conducts the National Science Youth

Printed in U.S.A. Second class postage paid at Washington, D. C. Established in mimeograph form March 13, 1922. Title registered as trademark U. S. and Canadian Patent offices. Indexed in Reader's Guide to Periodical Literature, Abridged Guide, and the Engineering Index. Member of Audit Bureau of Circulation.

SCIENCE SERVICE

The Institution for the Popularization of Science organized 1921 as a non-profit corporation.

Board of Trustees—Nominated by the American Association for the Advancement of Science: Wallace R. Brode,*** Washington, D.C.; Bowen C. Dees, National Science Foundation; Athelstan F. Spilhaus, University of Minnesota. Nominated by the National Academy of Sciences: Harlow Shapley, Harvard College Observatory; Detlev W. Bronk, Rockefeller Institute; Henry Allen Moe, The Clark Foundation. Nominated by the National Research Council: Leonard Carmichael, National Geographic Society; Eric A. Walker, Pennsylvania State University; Glenn T. Seaborg*, U.S. Atomic Energy Commission. Nominated by the Journalistic Profession: Gordon B. Fister, Allentown (Pa.) Call-Chronicle; Ralph B. Curry, Flint Journal; O. W. Riegel,**** Washington and Lee University. Nominated by the Scripps Estate: Ludwell Denny, Scripps-Howard Newspapers; Edward W. Scripps II,** Edward W. Scripps Trust; Edward J. Meeman, Memphis Press-Scimitar. *President, ***Vice President, ***Treasurer, ****Secretary.

Staff--Director: E. G. Sherburne Jr. Assistant Director: Dorothy Schriver. Writers: Barbara Culliton, Jonathan Eberhart, Ann Ewing, Faye Marley, Patricia McBroom, Barbara Tufty, Judith Viorst, Ruby Yoshioka. Science Youth Division: Joseph H. Kraus, Lloyd Ulmer. Photography: Fremont Davis. Production: Marcia Nelson. Syndicate Sales: Forrest L. Snakenberg, Librarian: Margit Friedrich. Interlingua Division in New York: Alexander Gode, 80 E. 11th St., GRamercy 3-5410.

- ADVERTISING -

Louis D. Young, Advertising Director, SCIENCE NEWS, 1719 N St., N.W., Washington, D. C. 20036. Telephone 202-667-8945.

Advertising Representatives: SCRIPPS-HOWARD NEWSPAPERS. General Advertising Department: 200 Park Ave., New York, N.Y., TN 7-5000; 400 N. Michigan Ave., Chicago, Ill., SU 7-3355; 800 Broadway, Suite 1100, Cincinnati, Ohio, 721-1254; Suite 211, Braniff Building, Dallas, Texas, FL 7-3847; 908 E. Northland Tower, Southfield, Michigan, 444-4595; 6363 Wilshire Blvd., Los Angeles, Calif., OL 3-0026; Room 1522, Philadelphia National Bank Building, Philadelphia, Pa., LO 3-6275; Central Tower Building, 703 Market St., San Francisco, Calif., GA 1-5187.





FREE 24 Page BOOKLET No. CW-6
Mailed Without Obligation

GRAPHIC SYSTEMS, Box 398, Yanceyville, N.C.

220