

Kelley Gets Grant To Study Relation Between Enzyme ADA, Birth Defect

A researcher at the medical center has been awarded a \$44,332 grant from the National Foundation-March of Dimes to study the possible connection between a rare inherited enzyme deficiency and a fatal birth defect.

Dr. William N. Kelley, professor of medicine and chief of the Division of Rheumatic and Genetic Disease will attempt to find what role the enzyme ADA (adenosine deaminase) plays in normal white blood cells and whether infants with the disease, which is called severe combined immune deficiency (SCID), lack the enzyme completely, have a defective form of it or cannot convert certain sub-types of it to meet the needs of cells which fight disease.

Physicians who have seen patients with SCID have already established that the immune defenses of these patients are so defective that even a routine vaccination or mild skin fungus may lead to overwhelming infection. Infants affected by SCID seldom live more than a few months.

Recently, researchers have found that a number of SCID patients lack the enzyme ADA, which is particularly abundant in the white blood cells of healthy subjects. Because of this discovery and because of the relative rarity of both conditions, many experts now believe that there may be a direct relationship between the deficiency and the disease.

That is, the enzyme may be essential for white blood cells to perform their task of removing disease carrying agents from the blood stream.

The lack of ADA is the first inherited metabolism error to be linked with a proven immune system defect. If Kelley's studies are successful, medical science may soon know the mechanism by which

the enzyme deficiency causes the disease and gain valuable information about immune system disorders in general.

Working with Kelley are Dr. Martin Van der Weyden, a research fellow in the division; Dr. Dina Fischer, a post-doctoral fellow in genetics; and biochemistry graduate student Sara Singer.

COMPUTER COURSES

The Computation Center is offering several free, non-credit computer courses during the month of July. They are open to Duke faculty, students, all employees, and members of the families of any of these. Also, employees of Duke-related non-profit organizations, such as the V. A. Hospital, are eligible.

The courses will meet from 4-5 p.m. each weekday, Monday through Friday, and will be taught by members of the Computation Center staff. Most of the courses assume little or no prior knowledge of computers. The subjects taught will be:

Introductory Concepts & Facilities, July 8-10; Beginning PL/I, July 11-23; Beginning FORTRAN, July 11-23; JCL (Job Control Language), July 24-August 2; Statistical Packages, July 24-August 2; and General Terminal Usage, July 24-August 2.

If you are interested in any of these courses, please call Ext. 4009 for more information or to enroll.

Employe Relations Office Moves

The Medical Center Employee Relations Office has moved to a new location. Its headquarters is now located in the Medical Center Personnel Office, Room 1160 in the main hospital.

The telephone number, Ext. 6037, remains the same.

Trading Post

You may send ads to "Trading Post," Box 3354, Hospital. Ads are printed free, but we do not advertise real estate, personal services or commercial enterprises. Please give your home telephone number. Duke extensions will not be listed.

FOR SALE--1868 Honda C70M motorcycle, \$160 and helmet, \$10; Kenmore washing machine, white, top loading, works perfectly, \$65; Sears Ironstone dinner-service for eight, \$25; stainless steel tableware for eight, \$12; blender, \$10; 3-speed beater, \$3.50; misc. children's toys and equipment and other household items. Call 489-2800.

FOR SALE--Triple bunk beds, complete set \$50 or individual beds \$20 each. Also violin with case, \$30; trumpet with case, \$15; sleeping bag, \$5; and 20-inch bicycle, \$20. Call 477-6253.

FOR SALE--Wooden fishing boat, 13', with Sears trailer, 5 hp outboard motor, carpeted, freshly painted, with canopy, life jackets and anchor and paddles, \$400. Call 688-5825 after 5 p.m.

FOR SALE--King-sized bed in good condition, must sell. Call 732-8873 any evening.

FOR SALE--RCA Whirlpool refrigerator, 7 years old, in good condition, best offer, you move it. Call 477-0845.

PATIO SALE--Glass and china ornaments, rugs, and potted plants. Saturday, 10 a.m. until 2 p.m., 28 Lebanon Circle off Guess Rd. by the Eno River.

FOR SALE--1971--Ford Galaxie, two-door, hardtop, white, air conditioning, available at the end of June, very reasonable, \$1,500. See Richard Hamer in the Anatomy Dept. or call 477-1820 after 6 p.m.

FOR SALE--Mahogany Hepplewhite drop-leaf dining table, \$275; English Regency dining chairs, mahogany and cane, brass rosettes, very elegant, set of six, \$1,500; English mahogany Sheraporn side table, circa 1820, one drawer, brass handles and feet, \$225; and eight Stuart wine glasses, \$50. See Richard Hamer in the Anatomy Dept. or call 477-1820 after 6 p.m.

FOR SALE--Ladies dresses, sizes 20½ and 22½. Also 1964 Ford Fairlane, 2-door, automatic transmission, light blue, excellent condition. Call 477-0020 after 6 p.m.

FOR SALE--3-speed G.E. fan, new condition; 4-speed Columbia stereo, cabinet model; odd size storm windows; and TV stand. See at 101 E. Maynard Ave. or call 477-5011.

FOR SALE--Emerson 8,000 BTU air conditioner, 110 volt., excellent condition. Call 383-5007 evenings.

FOR SALE--1968 Chevy Caprice, new tires, new heavy duty shocks, new ball joints, new a.c. system, green with black vinyl top, four-door, V-8, in good condition, family car, best offer over \$600. Call 286-1841 or 477-0520 after 6 p.m.

FOR SALE--21 ft. Prowler, self-contained camper, used only 6 times, 1972 model, sleeps 8, separate bath with tub, \$3,200 or best offer. Call 477-8080 after 5 p.m.

YARD SALE--At 415 Hammond St., Saturday, June 22 from 10 a.m.-4 p.m. (rain date June 29). Sale includes good used clothing, furniture and appliances.



AWARD FOR RESEARCH REPORT--Dr. Edward M. Mullin Jr., (right) a resident in urology, receives the Dr. Grayson Carroll Award from the St. Louis urological pioneer for whom it was named. The award, established by Mallinckrodt, Inc., is given for an outstanding report on research in urology and was presented during the annual meeting of the American Urological Association in May. Mullin's paper, with contributions by Dr. Robert A. Bonar and Dr. David F. Paulson, was "Acute Tubular Necrosis: An Experimental Model Detailing the Biochemical Events Accompanying Renal Injury and Recovery." Mullin read the paper at the annual meeting in St. Louis.

Rare Old Books

(Continued from page 1)

that are part of the collection.

The Barchas Center will have a director appointed from the Duke faculty and an editor-in-chief of the collection. A six-member committee, on which the Barchases will serve, will manage and guide the collection, including future acquisitions.

The oldest book in the Barchas Collection is one of the first encyclopedias ever published—a first edition of the "Etymologiae" of Bishop Isidore (Isidorus Hispalensis) of Seville. It was written in the 7th Century and was first published in 1472.

The book contains the first printed astronomical diagrams, the first T-map showing the relation of the continents and a chapter on medicine.

A sampling of other volumes in the collection includes these:

—One of the world's finest copies of the first edition, published in 1543, of the "De Revolutionibus" of Copernicus, in which he proposed his revolutionary heliocentric theory that the earth revolves around the sun.

—A copy presented to Sir Isaac Newton by the great Dutch scientist Huygens of Huygen's principal work, "Horologium Oscillatorium," published in 1673.

—The first published edition of Euclid's Geometry, published by Ratdolt in Venice in 1482. The book has now gone through more than 1,000 editions.

The collection contains almost all of the published papers of Albert Einstein, as well as many of the published works of Galileo, Kepler, Tycho Brahe and Willard Gibbs.

Among the medical classics in the collection are first editions of Thomas Addison's "On the Constitutional and Local Effects of Disease of the Supra-renal Capsules" (1855); Vieussens' "Neurographia Universalis" (1684); Semmelweis on childbed fever (1861); Mascagni's "Vasorum Lymphaticorum," a tall folio atlas published in 1787; and a presentation copy of George Berkeley's "An Essay Towards a New Theory of Vision" (1709).

The collection also contains a good copy of Fuch's herbal of 1542 and

periodical volumes containing Ephraim McDowell's 1817 report of the first successful ovariectomy and the 1873 preliminary paper of Freud and Breuer on the unconscious mind.

Barchas credits his wife, Cecile, with stimulating, first, his interest in science, and later with setting them on their course of rare-book collecting.

The details of his law practice, and particularly the demands of his trial work, which included Hollywood divorce actions, reached the point, Barchas recalled, that his wife suggested that "we needed to get a different perspective of life.

"Cecile suggested that it might be desirable to read a good book on astronomy," he recalled, "and she presented me with such a book, "The Universe Around Us" by James H. Jeans.

That seemingly insignificant, initial investigation of astronomy, Barchas said, "made me realize what a vast panorama the world of science is. We gradually bought and read more books on astronomy, until the time came when we purchased our first rare book."

That was in the mid-1940s and the book was "Astronomy Explained Upon Sir Isaac Newton's Principles," a third edition published in 1761 and written by James Ferguson, a self-educated Scot who, as a shepherd boy, had studied the stars.

"We were so fascinated," he said, "when we realized that here was a world opening before us that we needed to explore—the world of rare books in science—that we've simply kept it up ever since.

"With the leadership and excellent faculty at Duke, and with its strong tradition in both science and history, it was only natural that we should choose Duke as the ultimate home for these books," Barchas said.

G. S. T. Cavanagh, director of the Medical Center Library, personally supervised the packing and shipping of the Barchas Collection to Duke.

Until the new medical library is completed next year, the collection will be housed in Perkins Library, where cataloging will begin.

Intercom

is published weekly for Duke University Medical Center employees, faculty, staff, students and friends by the Medical Center's Office of Public Relations, Joe Sigler, director; Miss Annie Kittrell, secretary.

Co-Editors

DAVID WILLIAMSON
DALE MOSES

Public Relations Advisory Committee: Sam A. Agnello, audiovisual education; Dr. Robert Anderson Jr., surgery; James L. Bennett Jr., vice president's office; Wayne Gooch, personnel; Dr. Athos Ottolenghi, physiology and pharmacology; Richard Peck, hospital administration; Miss Isabelle Webb, RN, nursing service; Dr. Tom C. Vanaman, microbiology and immunology.