"Running for their lives" are some of the faculty, staff and students of the MSU College of Osteopathic Medicine's not-in-the-least-whit-formally-organized Run-for-Lunch Bunch. Whatever their reasons -- from a quest for physical fitness to the sheer joy of movement -- runners and joggers from MSU-COM can be found any day in any weather making tracks, often miles from Fee Hall. On the cover are Carol Howland, David Marler, Bob Little, Jeana Dressel, and Lucia Palacios. For more, see pages 6 and 7.

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COMMUNIQUE Communique, a newsletter publication of the Michigan State University College of Osteopathic Medicine, is issued 18 times a year through the Health and Medicine Section of the MSU Department of Information Services, A314 E. Fee Hall, East Lansing, MI 48824; telephone 517/353-0820. Members of the Editorial Advisory Committee include Allen W. Jacobs, Ph.D. (Chairman); Francis A. Bernier, Ph.D., Gordon C. Spink, Ph.D., D.O.; Nancy M. Houston, B.A. (Editor), Patricia Grauer, M.A. (Associate Editor). Production and circulation manager is Carol Howland. Date of next issue will be April 23, 1979. Copy deadline for next issue: April 11, 1979.
UNIQUE STUDIES OF CRANIOSACRAL SYSTEM
BEING CONDUCTED AT MSU OSTEOPATHIC COLLEGE

A possible key to some learning disabilities, behavioral problems and autism is being studied by researchers at Michigan State University's College of Osteopathic Medicine.

John Upledger, D.O., F.A.A.O., and Ernest Retzlaff, Ph.D., are examining the craniosacral system, the structures and components of which (such as the skull, the meninges and the cerebrospinal fluid) provide the environment for the brain and spinal cord.

Their research has led them to the hypothesis that some physical and behavioral difficulties may be caused by a lack of accommodation in the system, directing cerebrospinal fluid pressures internally on the brain and spinal cord.

Cranial sutures not calcified

They confirmed in their initial studies that the pressure of cerebrospinal fluid rhythmically changes, normally rising and falling eight to ten times a minute. In checking the skull's ability to comply with these changing pressures, they found that transducers hooked to the crania of live monkeys indicated continual movement between the two parietal bones.

Retzlaff, a professor of biomechanics, in cooperation with researchers at the University of Washington, conducted a histological investigation of the cranial sutures, the "seams" in the skull which traditionally have been considered to be solidly calcified.

Examining monkey tissue and samples across sutures from human surgical patients, they found indications that the sutures were living joints, capable of subtle motion, and fully calcified only under pathological conditions.

They discovered collagen and elastin, networks of blood vessels and nerves, and nerve receptors. Also present in the sutures were osteoblasts (bone-producing cells) and osteoclasts (bone absorbing cells).

Electrophysiological studies

Next Upledger, associate professor of biomechanics, and Zvi Karni, visiting professor of biomechanics, cooperated in a study of the electrophysiological effects of manipulation of the cranium. Monitoring electrocardiograms, respiration, and electrical potential changes by the use of electrodes above the knee and foot, Karni could independently predict what manipulative techniques Upledger was using.

Interexaminer reliability

To test reliability of the techniques for cranial examination, a double-blind study of 19 parameters of motion was conducted with 25 nursery school children. Upledger would examine the children and report either severe restriction, transient restriction or normalcy on each parameter. Another investigator — either Robert C. Ward, D.O., professor in the Office of Medical Education Research and Development and of family medicine; Fred L., Mitchell Jr., D.O., professor of biomechanics; or Irvin J. Gastman, Ph.D., D.O., MSU-COM alumnus — would examine the same patient independently. The researchers found that they had more than 88% overall agreement on the parameters.

(continued)
STUDIES OF CRANIOSACRAL SYSTEM (continued)

Learning disabilities

In a study published in the June 1978 issue of the Journal of the American Osteopathic Association, Upledger reported on a standardized craniosacral examination which he conducted on a mixed sample of 203 grade school children. His contact with the children was strictly limited to the investigation of cranial mobility. School teachers, psychologists and specialists independently classified the students into relevant physical and behavioral groupings.

Overall the correlation between craniosacral motion and development problems in these children was extremely high.

Statistical analysis confirmed the craniosacral examination was a significant predictor (probability by chance of less than 1 in 1000) of designations of "not-normal," behavioral problems, learning disabilities, obstetric complications and motor coordination problems.

Upledger plans double-blind research of learning disabled children in Flint, examining the effects of cranial manipulative treatment, placebo treatment and no treatment.

Austistic children

Upledger has also been working with 28 autistic children in Genesee County, examining the craniosacral system, blood proteins by electrophoresis, physical structure, and hair trace mineral content.

Among these children, none had normal motion of the cranium in more than two of the 19 parameters. Hair analysis of 17 children demonstrated 16 with abnormal mineral content, and with mercury and lead toxicity. All children also had extreme restriction of the thoracic cage and diaphragm, and a significant number had cyanotic fingernails.

Upledger is now beginning a six-month treatment program with these autistic children, which will include craniosacral therapy, use of oxygen and carbon dioxide to stimulate respiratory nerve centers, continuation of hair analysis, and osteopathic manipulative therapy for thoracic restriction. Continued monitoring of blood proteins will be carried out.

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SPORTS MEDICINE CLINIC DAY: MAY 6

A seminar for physicians, coaches and trainers on sports medicine will be held at the Michigan Center for Continuing Education in Osteopathic Medicine on Sunday, May 6.

Topics for the program will include head, neck and chest injuries, Michigan sports law, abdominal bleeding, heat illness, cardiopulmonary resuscitation and transportation of the injured athlete.

Speakers will include trainers, physicians, athletic directors, sports medicine consultants, and an attorney.

Six hours of continuing medical education credit has been requested from the American Osteopathic Association and the Michigan Board of Osteopathic Medicine and Surgery.

For further information, contact the Center, 313-335-7742.

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PATIENTS ROLE IN SUCCESS
OF HEALTH CARE STUDIED AT MSU

How patients can more effectively participate in their own health care, particularly those patients with diabetes and hypertension, is being studied under a new $365,000 grant at Michigan State University. This research, a joint project of MSU's School of Nursing and Department of Community Health Science, will examine how patients' understanding of the seriousness of their health problems and the benefits of following doctor's orders can influence health care results.

Investigation centers on how nurses' intervention via an active, ongoing nurse/patient relationship can enhance the successful outcome of health care for patients with diabetes or hypertension.

Nurses assist diabetic and hypertensive patients in gaining accurate understanding of their disorders, how diabetes or hypertension affect patients' daily living, how prescribed therapy benefits patients.

Funding for the three-year project comes from the Division of Nursing, U. S. Public Health Service, Department of Health, Education and Welfare. Project directors are Barbara A. Given, R.N., Ph.D., assistant director of the MSU nursing school graduate program, and Charles W. Given, Ph.D., assistant professor in the Department of Community Health Science.

Their investigation represents the first research award to the MSU School of Nursing. Sites for the project include family health centers associated with the College of Human Medicine in Lansing, Grand Rapids and Flint and family practice centers at the East Tennessee State University School of Medicine.

The first part of the study will be concerned with developing measures to identify patients' understanding of their disease, how effective they believe their treatments to be, and the impact of these diseases on their daily lives.

During the second phase of the study, as a part of the nurse/patient relationship, nurses will regularly review with patients the benefits of their prescribed treatment, including detailed purpose of medication, importance of follow-up care, and need for keeping subsequent medical follow-up. Other interaction with patients will concern the causes of hypertension or diabetes, symptoms or complications to report, and the patient's current health status, including current blood pressure level, blood sugar and weight.

Through this research the Givens hope to learn how increasing patient's participation in their care will improve patient's control of their diabetes and hypertension.

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CLASS OF 1979 PLANNING
DINNER DANCE FOR GRADUATION

A graduation dinner dance for the Class of 1979, faculty and staff of the College, will be held on June 8 at Long's of Lansing grand ballroom. The bar will open at 7 p.m., with dinner beginning at 8 p.m.

Awards will be presented to faculty and staff in basic sciences, clinical sciences, adjunct clinical faculty and student support services.

"It is our hope to establish some tradition at MSU-COM and to increase faculty and student participation in graduation festivities," said Carole Rizzo, chairman of the Class of 1979 graduation committee.

Invitations for distribution to students will be available from Unit III hospital representatives. Faculty and staff invitations will be mailed to homes. For information, contact Rizzo at 41274 Lehigh Lane, Northville, Michigan, 313-348-0609.

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WARMING UP -- Clockwise: David Marler, Bob Little, Lucia Palacios, Bob Hubbard, Carol Howland, Amy Hunt, Jeana Dressel.

THE COLLEGE OF OSTEOPATHIC MEDICINE ON THE MOVE

Running has gone from a mania to almost a cliche at the MSU College of Osteopathic Medicine, as faculty, staff and students practice the preventive medicine they preach. During spring break, the Communiqué staff, inveigled some of our less bashful racing masochists to romp before the camera, nearly trampling photographer Dick Wesley in the process. They included David Marler, assistant to the associate dean; Bob Little, chairman of biomechanics; Carol Howland, secretary in Health and Medicine Information; Bob Hubbard, assistant professor of biomechanics; Jeana Dressel, assistant instructor, Office of the Dean; Lucia Palacios, student adviser; and Amy Hunt, specialist, Office of the Dean. Robert Fedore, assistant dean for student affairs, asked us to note that he would have posed but was out running.

Other MSU-COMers rumored to have frenzied feet include Gerald Osborn, assistant professor of psychiatry, who is in training for the Boston Marathon this spring; Joe Vorro, assistant professor of anatomy; Gary Campbell, associate professor of family medicine; Gail Riegle, professor of physiology; and Robert Barker, chairman of biochemistry.
MONDAY, APRIL 9, 1979


TUESDAY, APRIL 10, 1979

4 p.m. Pharmacology and Toxicology seminar: "Biochemical and Physiological Sequelae to Perinatal Exposure to PCBs" by Kevin McCormack, graduate assistant. B449 Life Sciences.

WEDNESDAY, APRIL 11, 1979

8:30 a.m. Seminar on time management: "Focus on Effectiveness" by Maxine Ferris of the Agriculture and Natural Resources Education Institute. Presenting strategies that work, Ferris will discuss techniques to aid in identification of time wasters and strategies for setting priorities. Until 10 a.m. E2 Fee Hall. RSVP Sharon Rochon, 355-9611.

6 p.m. Urology seminars: "Stress and Incontinence" by Brent Murphy, D.O., from Flint Osteopathic Hospital, and John Wolfe, D.O., from Saginaw. Approval for two hours CME credit requested. Michigan Center for Continuing Education in Osteopathic Medicine, 900 Auburn Rd., Pontiac. For information, call 313-335-7742.

FRIDAY, APRIL 13, 1979

4 p.m. Neuropathology Special Topics Series: "Cervical Spondylosis" by A. Arthur Gindin, Midland Hospital Center. A106 E. Fee.

The next "Communique" calendar will cover Monday, April 23, through Monday, May 7. Deadline for inclusion of material is noon, Wednesday, April 11. Contact Health and Medicine Information, A314 E. Fee, 353-0820.
TUESDAY, APRIL 17, 1979

12:30 p.m. Microbiology and Public Health seminar: "The Inhibition of Host Cell Protein Synthesis by Poliovirus" by Ellie Ehrenfeld, Department of Microbiology, University of Utah. 216 Giltner.

4 p.m. Pharmacology and Toxicology seminar: "An Assessment of Carcinogen-Induced Methylation of DNA-purines in Rat Liver" by Elaine Faustman, graduate assistant. B449 Life Sciences.

WEDNESDAY, APRIL 18, 1979

Federation Internationale de Medecine Manuelle. Participants from 15 countries are expected to present papers at this international congress on manual medicine. Five of nine persons attending from the United States are from the MSU College of Osteopathic Medicine. Through April 22. Baden-Baden, West Germany.

SATURDAY, APRIL 21, 1979


MARK YOUR CALENDARS

April 25  "Physicians and Faculty as Interpersonal Facilitators -- Exploring Professional Possibilities for the Classroom, Committee and Clinical Practice" by Robert L. Gold, Southern Illinois University. 8:30 a.m. 131 E. Fee.

May 4  Fee Follies. Union Building. Contact Jay Cherubim or Jeff Kyff to participate.

FINAL SPRINT -- Bob Little and Jeana Dressel

OWN THE STRETCH -- Bob Hubbard

...Run-for-Lunch Bunch

FINAL GLOW
Marler
Little
Howland
Hubbard
Dressel
Palacios
Hunt
FEE FOLLIES MAY 4

The annual pressure valve for the College of Osteopathic Medicine—the infamous Fee Follies—will not be held in Fee Hall this year.

Instead the Friday May 4 event has been scheduled for MSU's Union Building.

Students, faculty or staff interested in preparing a skit, song, dance, film or other event for the Follies should contact Jay Cherubim or Jeff Kyff at 332-8461, or mailbox #471.

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STATE JOURNAL REPORTER LANE WINS NATIONAL OSTEOPATHIC JOURNALISM AWARD

Millicent Lane, reporter for the State Journal, Lansing, has won the national American Osteopathic Association Journalism Awards Competition.

Her award-winning set of articles, originally published January 22, 1978 on the cover of the "Focus" section, included a feature on "Hands On Therapy: 80 Years of Controversy," which detailed an interview on manipulative therapy with Philip E. Greenman, associate dean of academic affairs.

Other articles were features on "whiz student" Anne Pawlak, who is now completing third-year rotations, and "jaunty-spirit" Dean Myron S. Magen.

Editions of the articles were distributed on the Gannett wire to more than 80 newspapers nationwide.

Lane's nomination was made by Lansing General Hospital and supported by the MSU College of Osteopathic Medicine.

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GRAND ROUNDS APRIL 9:

ATHLETIC INJURIES AT MSU

"Athletic Injuries at MSU" and "What Did Happen to Jay Vincent's Foot?" will be featured presentations at College of Osteopathic Medicine grand rounds Monday, April 9.

Speakers will be Thomas S. Harle, M.D., professor of radiology, and Herbert E. Ross, D.O., associate professor of osteopathic medicine and director of athletic medicine at MSU.

The program will begin at noon in E105 E. Fee.

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ALUMNI LUNCHEON: MAY 18 AT MAOP&S SCIENTIFIC SEMINAR

Alumni and friends of the MSU College of Osteopathic Medicine are invited to attend the alumni luncheon Friday, May 18, held in conjunction with the annual scientific seminar of the Michigan Association of Osteopathic Physicians and Surgeons. The program will be held from noon to 2 p.m. at the Hyatt Regency in Dearborn.

MSU-COM will sponsor an exhibit and information table at the convention.

Persons attending the seminar will receive luncheon registration information in their registration packets. Others wishing to make reservations should contact Sandy Kilbourn, executive secretary, MSU-COM Alumni Association, 517-353-8822.

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APRIL 25 SEMINAR WILL EXAMINE
INTERPERSONAL APPROACHES TO
TEACHING AND CLINICAL PRACTICE

A seminar designed to offer MSU-COM teaching faculty and staff interpersonal approaches to classroom instruction, committee relations and clinical practice will be held Wednesday, April 25 from 8:30 to 10 a.m. in Room 131 East Fee (Veterinary Medicine).

The presentation "Physicians and Faculty as Interpersonal Facilitators: Exploring Professional Possibilities for the Classroom, Committee and Clinical Practice" — will be given by Robert L. Gold, Ph.D., a visiting professor from Southern Illinois University currently working with the MSU Learning and Evaluation Services. His special interests include personal development, interpersonal relations, and faculty development, with emphasis on the collaborative and interpersonal learning process in the college classroom.

Participants will have the opportunity to examine several strategies employing communication skills for the improvement of interpersonal relations in professional settings, and will be able to appraise ways to create a collaborative climate in medical learning and practice environments.

Those wishing to attend should contact Ms. Sharon Rochon at 355-0611 by April 20.

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TASK FORCE PREPARING REPORT
ON COM STUDENT COUNSELING NEEDS

A nine-person COM task force is collecting data and studying current counseling needs and potential needs of College of Osteopathic Medicine students, with an eye to readying a preliminary report by June or July. Task force chairperson is Gaston Blom, M.D., professor of psychiatry.

Other task force members are: Gary H. Campbell, D.O., associate professor of family medicine; Wanda Dean, Ph.D., assistant professor of community health science; Celia Guro, Ph.D., assistant to the dean; medical students Debra Johnson and James Larkin; Sam Pflyer, Ph.D., Counseling Center professor, and Gail Riegel, Ph.D., professor of physiology. Jeana Dressel, M.A., serves as executive secretary to the task force.

Major topics under consideration include the behavioral content of the curriculum, general support services for students, and admissions policies as they affect the needs of the students admitted. The task force also is assessing ways the faculty could further contribute to a climate of support for students that would expand reinforcement of the osteopathic concept of caring for patients.

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MICROBIOLOGY AND PUBLIC HEALTH
SPRING SEMINAR SCHEDULE

The following seminars, sponsored by the Department of Microbiology and Public Health for spring term, will be held at 12:30 p.m. in 216 Gilniter Hall.

April 17  The inhibition of host cell protein synthesis by poliovirus
           —Ellie Ehrenfeld, Department of Microbiology, University of Utah

April 24  HLA transplantation and disease susceptibility
           —Fritz Bach, Immunobiology Research Center, University of Wisconsin

May 1    Plasmids coding for carbohydrate catabolic enzymes in strains of
           Streptococcus lactis
           —Donald J. LeBlanc, National Institute of Dental Research

May 15   DNA synthesis catalyzed by DNA replication proteins of E. coli lambda
           and P22
           —Sue Wickner, Laboratory of Molecular Biology, National Cancer Institute

May 22   Social motility in Myxococcus xanthus
           —A. Dale Kaiser, Department of Biochemistry, Stanford University

May 29   Inflammatory aspects of rodent cysticercosis
           —R. Wesley Leid, Department of Pathology, Michigan State University

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PHARMACOLOGY AND TOXICOLOGY
COLLOQUIA FOR SPRING TERM

Pharmacology and Toxicology colloquia for spring term will be held at 4 p.m. in B449 Life Sciences.

April 10  Biochemical and physiological sequelae to perinatal exposure to PBBs
           —Kevin McCormack, Pharmacology and Toxicology, MSU

April 17  An assessment of carcinogen-induced methylation of DNA-purines in
           rat liver
           —Elaine Faustman, Pharmacology and Toxicology, MSU

April 24  Molecular correlates of 2-acetylaminofluorene carcinogenesis
           —Edward Schwartz, Pharmacology and Toxicology, MSU

May 1     The role of renal drug-metabolizing enzymes in environmental nephrotoxins
           —Steven Kuo, Pharmacology and Toxicology, MSU

May 2     Monoamines, monoamine oxidases, and mental illness
           —Merton Sandler, Institute of Obstetrics and Gynecology, University
           of London

May 8     Biochemically characterized constituents from malaria parasites
           —A. Kilijian, Rockefeller University

May 15    Mechanisms for the cardiovascular effects of 1-alpha-acetylmethadol
           —Douglas Eikenburg, Pharmacology and Toxicology, MSU

May 22    Regulation of nigrostriatal neuronal activity
           —Suzanne Wuerthele, Pharmacology and Toxicology, MSU

May 29    Behavioral effects of hallucinogens and their interactions with neurochemical
           lesions
           —Randall Commissaris, Pharmacology and Toxicology, MSU

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Sui-Wah Chan, Ph.D., associate professor of medical education research and development, presented "Issues and Implications in Evaluation of Small Learning Groups" at the Association of American Medical Colleges meeting on research in medical education, held in New Orleans.

Arthur S. Elstein, Ph.D., professor and director, Office of Medical Education Research and Development, attended the Committee on the Study of Evaluation Practices of the American Board of Medical Specialties March 13 and 14 in Chicago. He also attended a conference on naturalistic problem solving, sponsored by the Center for Human Information Processing and the Laboratory in Comparative Human Cognition, both at the University of California in San Diego.

Gaston E. Blom, M.D., professor of psychiatry and of elementary and special education, presented "Cross-cultural Approaches to the Needs of Special Children" at the Michigan International Year of the Child conference held March 31 at Kellogg Center. He also discussed "The Use of Children's Books for Teaching Reading" at the Children's Literature Conference held April 7, at Oakland University.

Joseph H. Rosin, D.O., 1973 alumnus, has been appointed chairman of the Department of Internal Medicine at the University General Hospital in Seminole, Florida. His address is 10410 Seminole Blvd.

Brigitte Jordan, Ph.D., assistant professor of anthropology, presented "Issues Surrounding Traditional Birthing Practices of Maya Indians" at the Instituto Tecnologico Regional of Merida, Yucatan, Mexico, on March 9. She also spoke on "Managing Perinatal Complications: Traditional and Modern Ways of Dealing with Breech Presentations" at the annual meetings of the Society for Applied Anthropology, held in Philadelphia March 15.

J. Justin McCormick, Ph.D., co-director of the Carcinogenesis Laboratory, organized a symposium at the annual meeting of the Environmental Mutagen Society held in New Orleans March 10. He delivered a paper there entitled "DNA Repair in Eukaryotes." McCormick was also an invited speaker at the environmental carcinogenesis program held March 27 by the Comprehensive Cancer Center of Metropolitan Detroit and the Engineering Society of Detroit.


Lodish, Augustine L. Perrotta, D.O., clinical associate professor of osteopathic medicine, and George Gustavson, D.O., presented a conference on lymphomas at the Michigan Center for Continuing Education in Osteopathic Medicine March 1.

Richard Redfeearn, Ph.D., assistant professor of osteopathic medicine, taped a program "Physical Fitness and Health" for broadcast in WKZO's (Kalamazoo) Future Talk series. Participants also included Steven Goletti, chairman of the Michigan Council on Physical Fitness and Health, and Alan Cudworth of the Michigan Department of Public Health. The interviewer was Rhonda Brown.

Mario A. Petrini, M.D., clinical associate professor of family medicine from Farmington Hills, gave a presentation and conducted a course on "Gender Dysphoria Treatment of Sexual Dysfunctions" at the first PanAmerican Congress on Andrology held March 16 in Caracas, Venezuela.

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GIFTS AND GRANTS

The following medically-related gifts and grants were among those accepted by the Michigan State University Board of Trustees at its March meeting.

Anatomy
National Cancer Institute
— Neuroendocrine control of murine leukemogenesis/ C. W. Welsch

Biochemistry
National Institutes of Health
— Membrane oligosaccharides/ R. Barker
— Mass spectrometry facility/ C. Sweeney
— Dietary zinc: its effect on the immune response/ P. Fraker

National Cancer Institute
— Molecular basis of the recombination and replication of avian sarcoma viruses/ Hsing-Jien Kung

U. S. Department of Agriculture
— Regulation of photorespiration/ N. E. Tolbert

Michigan Department of Agriculture
— Food contamination problems/ S. D. Aust

National Institute of General Medical Sciences
— Regulatory and structural protein-DNA interactions/ A. Revzin

Biomechanics
Michigan Osteopathic College Foundation
— Departmental development/ R. W. Little

Biophysics
National Institute on Drug Abuse
— Study a new fluorescent label for enkephalin receptor sites/ J. I. Johnson, M. A. El-Bayouni

Family Practice
— Partial subsidy for employment of a physician's assistant role model in the family practice residency program/ R. J. Gerard

Human Development
Council for the Prevention of Child Abuse and Neglect
— Support of a psychology intern for a child protection team/ S. L. Scheurer

National Cancer Institute
— DNA repair and mutagenesis in mammalian cells/ J. E. Trosko

The National Foundation, March of Dimes
— Birth Defects Center – Genetics Clinic/ J. V. Higgins

National Institute of Environmental Health Science
— Mechanism of mutagenesis in human and mammalian cells/ Chia-Cheng Chang

Microbiology and Public Health
National Institute of Allergy and Infectious Diseases
— Cell differentiation in procaryotic organisms/ H. L. Sadoff

National Cancer Institute
— Expression of genes for tumor-specific antigens/ L. F. Velicer

Pharmacology and Toxicology
National Institute of Environmental Health Sciences
— Environmental agents and nonrespiratory lung function/ R. A. Roth

Physiology
National Heart Lung and Blood Institute
— Dynamic control of coronary blood flow/ H. V. Sparks

Psychology
National Institute of Mental Health
— Experimental innovation diffusion in mental hospitals/G. W. Fairweather, L. D. Tornatzky

Psychiatry
Pine Rest Christian Hospital Association
— Psychiatry residency training program/ N. B. Enzer