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SCHOOL OF VETERINARY MEDICINE FACULTY NEWSLETTER

UNIVERSITY OF MISSOURI - COLUMBIA



FEBRUARY, 1970 — No. 28

U.S.P.H.S. Grants Total \$82,245

Grants totaling \$82,245 have been awarded faculty members of the University of Missouri - Columbia School of Veterinary Medicine by the U. S. Public Health Service. The funds will provide for a continuation of studies ranging from exploration of the brain's control of autonomic responses and investigation of the circumventricular organs to supporting post-doctoral training in laboratory animal medicine and studies of alcoholism in mice.

Further study of "Cerebral Control of Autonomic

Responses" will be conducted by Dr. J. E. Breazile, chairman and professor of veterinary anatomy, under a \$14,331 grant from the U. S. Public Health Service.

Now in its third-year, the study evaluates the control exerted by the cerebral cortex upon the autonomic nervous system. Parts of the brain causing somatic change and how they affect visceral changes are being explored.

Fiber systems from the canine motor cortex are being studied in their ability to alter on-going somato-visceral reflexes involving various portions of the autonomic nervous system. Such alterations are evaluated as to their intensity and latency, lending some insight into the complexity of neural connections involved in cerebral control of visceral motor activity.

Dr. H.-D. Dellmann, professor of veterinary anatomy and research associate at the Space Sciences Research

Kennel Club Gives Money to Vet Clinic

A new operating table, compliments of the Southeast Missouri Kennel Club, is a welcome addition to equipment at the University of Missouri - Columbia School of Veterinary Medicine Hospital-Clinic.

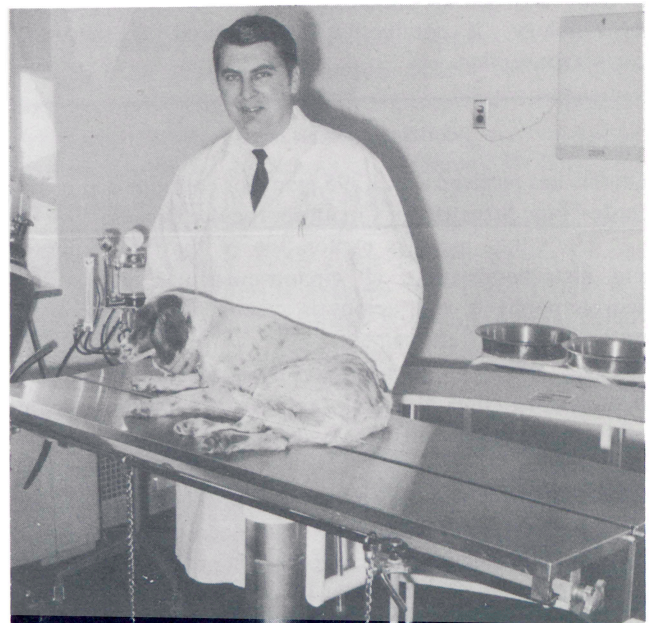
Four hundred dollars, proceeds from one of the Club's bi-annual dog shows, was presented to the School of Veterinary Medicine "to purchase equipment for the Small Animal Clinic," according to a letter from Mrs. Frank Dinelli, treasurer of the Club from Poplar Bluff.

At the same time \$100 was presented to the University of Missouri Development Fund to be credited to the School in recognition of services rendered by Dr. Vern E. Owens, Jackson, Mo. to the Club. Dr. Owens, served as show veterinarian during the summer exhibition for no fee.

According to Dr. J. D. Rhoades, assistant professor of veterinary medicine and surgery and Director of the Small Animal Clinic, the operating table increases the flexibility of proper positioning of canine patients for operative procedures. It is a hydraulic lift table of stainless steel with an adjustable V top. It is also larger and longer than the other tables thus permitting the handling of the larger canine patients.

The Southeast Missouri Kennel Club has actively supported the School of Veterinary Medicine Small Animal Clinic over the past years. A short time ago, the Club funded a small animal inhalation anesthesia apparatus.

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Dr. Rhoades displays the new operating table. His model recently underwent surgery on the table to repair a broken leg.



before



after

Phys and Pharm Gets a 'Phace-lift'

Microbiology Expands

The Department of Microbiology has begun a physical expansion program. It has taken over the animal holding quarters located on the ground floor of Connaway Hall in the east wing for part of virology and immunology work. Dr. R. W. Loan, professor and chairman of microbiology; Dr. G. M. Buening, assistant professor of microbiology; and Drs. D. D. King and A. R. Allbritton, research associates in microbiology, are continuing their work in the upstairs section. Dr. B. D. Rosenquist, associate professor of microbiology, is conducting his research in the new downstairs section.

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Center, has received a \$13,295 grant for continuation of his study "Fine Structure of Circumventricular Organs."

The study includes exploration of the fine structure and histochemistry of all circumventricular organs, the neurohypophysis and epiphysis cerebri in the Egyptian water buffalo and the camel.

Dr. Dellmann's investigation seeks additional information on the fine structure and histochemistry of the subfornical organ and the vascular organ of the lamina terminalis in the dog, the albino rat and the grass frog; and to determine the possible morphological and functional interrelationship between the neuro-secretory and other hypothalamic nuclei and the subfornical organ.

The United States Public Health Service has awarded \$42,547 to the University of Missouri - Columbia School of Veterinary Medicine for continuation of "Post-doctoral Training in Laboratory Animal Medicine."

Vet Sciences Remodeled

The Veterinary Sciences building is getting a face-lift with new paneling, lighting and electrical units. Simulated-wood, fire-proof paneling is being installed in the halls in the first steps toward remodeling the whole building. Educational resources will next be renovated. One modular laboratory is already remodeled and ready for use.

The building was originally a U. S. Air Force airplane hangar located at Knob Noster, Mo. Until the early 1960's, it served as the Veterinary Medicine Hospital-Clinic. Then the Department of Physiology and Pharmacology began to use the facility. It now houses, as well as physiology and pharmacology, the School Library, faculty offices and teaching laboratories.

The grant, now in its second year, is under the direction of Dr. K. L. Kraner, director of animal resources and professor of veterinary medicine and surgery.

Dr. Russell V. Brown, associate professor of veterinary pathology and of community health and medical practice, has been awarded a \$12,072 grant renewal for "Alcoholic Studies in Mice".

Now in its third year the study is exploring the connection between genetic make-up and alcoholic tolerance. Principal research is done with inbred strains of mice at the Sinclair Research Farm where Dr. Brown is a geneticist.

Dr. Brown is deliberately developing his own inbred strains of mice from already registered mice. One group will exhibit a strong alcohol preference while others will have a low preference. The groups will then be subdivided into units based on genetically controlled metabolic responses.

More Grants

NIH Funds Diagnostic Laboratory

A continuation grant of \$58,800 has been awarded to the University of Missouri - Columbia School of Veterinary Medicine for a two-fold project in the Veterinary Medical Diagnostic Laboratory. Funded by the National Institutes of Health, the project will support the laboratory activities necessary to diagnose spontaneous-occurring diseases in research animals, which might confuse or nullify experimental results and assist expansion of research programs involving diseases of laboratory animals.

Under the terms of the grant, the Research Animal Diagnostic Laboratory is available, without charge, to all investigators on the four University campuses who use animals for research purposes. Dr. Joseph E. Wagner, associate professor of veterinary pathology, is co-principal pathologist for the project. He consults with investigators and periodically visits the other campuses regarding colony health and disease diagnosis of laboratory animals.

Dr. B. E. Hooper, chairman and professor of veterinary pathology, is principal investigator of the grant; Dr. L. G. Morehouse, Director of the Veterinary Medical Diagnostic Laboratory and professor of pathology, is co-principal investigator along with Dr. Keith Kraner, Director of Animal Resources and professor of veterinary medicine and surgery.

Serving as toxicologist is Dr. D. J. Wagstaff, assistant professor of veterinary physiology and pharmacology. Dr. R. F. Solorzano, associate professor of veterinary microbiology, is virologist for the project. Mr. Dwight Owens, research associate in veterinary microbiology, is microbiologist.

Dr. E. L. McCune, associate professor of veterinary

microbiology, is poultry pathologist; Dr. L. D. Kintner, professor of veterinary pathology, and Dr. S. L. Nelson, associate professor of veterinary pathology, are pathologists for the study.

There are six objectives to the Research Animal Diagnostic Laboratory. It serves as a diagnostic center for diseases of laboratory animals used in biomedical research for the University. It monitors the health status of laboratory animals in research and attempts to improve the health and quality of laboratory animals.

It prepares reference material as training aids and serves as the training area for diagnostic pathology in the UMC laboratory animal medicine training program.

As well as serving as a diagnostic laboratory to implement the disease control programs required by the Laboratory Animal Welfare Act, it conducts investigations and research to improve the services of the Veterinary Medical Diagnostic Laboratory. It also provides information in the field of laboratory animal medicine.

Headquarters for the project is in the Veterinary Medical Diagnostic Laboratory located behind the Veterinary Hospital-Clinic.

Mo. Vet. Gets Advisors

A faculty advisement committee, headed by Dr. E. R. Ames, assistant professor of veterinary microbiology, has been formed to work with staff members of the *Missouri Veterinarian*.

The committee will assist the student-managed publication in evaluating and reviewing articles and in preparing professional information.

Faculty members are Dr. Ames, Dr. Billy E. Hooper, chairman and professor of veterinary pathology; Dr. James Breazile, chairman and professor of veterinary anatomy; Dr. Terrence Curtin, chairman and professor of veterinary physiology and pharmacology; Dr. E. Allen Corley, professor of veterinary medicine and surgery and Dr. C. E. Martin, associate professor of veterinary medicine and surgery.

Career Day Scheduled; Plans Set for March 26

The Seventh Annual Veterinary Career Day at the University of Missouri - Columbia School of Veterinary Medicine will be held March 26. A project of the Missouri Veterinary Medical Association, it is held in cooperation with the faculty of the School of Veterinary Medicine and the student chapter of the A.V.M.A.

Promising high school students are sponsored by their hometown veterinarians for a one-day visit to the School. During the visit, students examine the School's facilities, and are shown some of the many duties of veterinarians-in-training. They are also introduced to the nature of the profession as it concerns large and small animal practices, government service and industrial veterinary medicine.

Students at the School arrange and guide tours of the Veterinary Clinic-Hospital and related facilities. They also present a variety of demonstrations.

For more information, contact Dr. George Shelton, Associate Dean for Academic Affairs, Connaway Hall, School of Veterinary Medicine, University of Missouri - Columbia, Columbia, Mo., 65201.

— About the Faculty —

Dr. Myron E. Tumbleson, associate professor of physiology and pharmacology and research associate at the Sinclair Research Farm, presented a "Seminar on Malnutrition" for the Lovelace Foundation February 2-15 in Albuquerque, N. M. The Lovelace Foundation is conducting studies in aging similar to those at the Sinclair Research Farm, but with different animals. *Dr. D. P. Hutcheson*, instructor of veterinary physiology and pharmacology and biostatistician at the Sinclair Research Farm, also attended the Lovelace meeting to discuss research protocol with the personnel there.

Dr. J. E. English, associate professor of veterinary medicine and surgery, was in Las Vegas, January 18-26 attending the annual Health Conference and Intermountain Veterinary Meeting.

Dr. A. A. Case, professor of veterinary medicine and surgery, *Dr. T. M. Eagle* and *Dr. J. T. McGinity*, associate professors of veterinary medicine and surgery, attended the Missouri Veterinary Medical Association Meeting February 7-9 in Kansas City.

Dr. H. H. Berrier, associate professor of veterinary pathology, was in Washington, D. C. February 18-20 at a meeting of Air Force Medical Service Liaison Officers headed by the Assistant Surgeon General of the Air Force Veterinary Corps.

Dr. Case took part in a four-way panel dealing with health, waste disposal and prevention and environmental improvement February 10-12 at the University of Illinois in Urbana. He was participating in the 12th Sanitary Engineering Conference and was sponsored by the University of Illinois Extension Division. During the panel, Dr. Case discussed the "Influence of Health of Nitrate-Nitrite Contamination of Water Supplies."

Sponsored by Veterinary Extension and Continuing Education, *Dr. John Rhoades*, assistant professor of veterinary medicine and surgery, *Dr. C. R. Dorn*, associate professor of veterinary microbiology, and *Dr. William McCulloch*, Director of Continuing Education, attended the Urban Problem Solving Seminar held February 16-17 in Kansas City.

Participating in the California VMA Continuing Education Course on Anterior Abdominal Surgery, *Dr. Richard E. Hoffer*, associate professor of veterinary medicine and surgery, spent February 6-10 in Los Angeles. He was sponsored by the California Department of Continuing Education.

Dr. Emmett L. McCune, associate professor of veterinary microbiology, spoke in Mountain Grove, January 30 as a consultant on avian health problems. He was sponsored by the Missouri State Poultry Extension Station.

In Bethesda, Maryland, February 18-20, *Dr. L. C. Murphy*, associate dean for research, attended a meeting of the Animal Resources Advisory Committee of the NIH.

Sponsored by the Texas VMA, *Dr. Charles E. Short*, assistant professor of veterinary medicine and surgery, presented "Equine Inhalation Anesthesia" to the Texas association in Dallas. In Kansas City, he delivered "Physiology and Anatomy as they Pertain to Anesthesia in Relation to Procedures of the Thoracic Cavity and Related Functions" to the MVMA. January 25-27, Dr. Short was in Jackson, Miss., attending sessions of the NASA Medical Seminar on Physiological Monitoring, Biomedical Data and Medical Recovery. During the same period, he gave an Inhalation Anesthesia Seminar for the Jackson Veterinary Medical Association.

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