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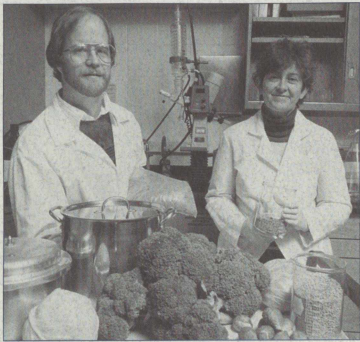
# Veterinary REPORT

College of Veterinary Medicine  
University of Illinois at Urbana-Champaign

Fall 1993, Volume 17, No. 3

## Compound Isolated From Cabbage Seed Makes Cancer Cells Self-Destruct

BY KIMBERLY MEENEN



L.L. MOYRALES

Illinois researchers, Dr. Matt Wallig and Dr. Elizabeth Jeffery, have been studying anti-cancer compounds in cruciferous vegetables like Brussels sprouts, broccoli and cabbage for the last six years. They may have found a natural breakdown product which seeks out cancer cells and causes them to self-destruct.

**B**etter eat your veggies. They may contain compounds that destroy cancer cells.

Cruciferous vegetables like Brussels sprouts, broccoli and cabbage are rich in a variety of biologically-active compounds, one of which is Cyanohydroxybutene (CHB). This natural breakdown product may seek out cancer cells and cause them to self-destruct, according to studies conducted by the University of Illinois College of Veterinary Medicine.

CHB is just one of the anti-cancer compounds that Illinois researchers have been studying for the last six years, says Dr. Matt Wallig, a veterinary pathologist at the college and co-investigator on several CHB studies. He and his colleagues have also developed methods to isolate and purify two other compounds, iberin and sulforaphane, in large quantities from the seeds of edible cruciferous plants.

Isolating these compounds from seeds is what makes this research unique, says Dr. Elizabeth Jeffery, an Illinois pharmacologist/toxicologist and a co-investigator of the studies. She points out that earlier investigations have isolated cancer-fighting compounds from plants rather than seeds. However, the seeds contain these products at levels many times more concentrated than the plants.

In one study, funded in part by the National Institutes of Health (NIH), researchers isolated CHB from the seeds of an "oilseed" called Abyssinian kale (*Crambe abyssinica*). This plant, which is related to cabbage, is grown for its industrial quality oil. CHB was combined with the trace element selenium and added to cultures of canine mammary tumor cells. At cer-

(Continued on page 7)

## Murnane Named As Zoo Pathologist To Chicago's Zoos, Aquarium

BY KIMBERLY MEENEN

**D**r. Robert Murnane has been selected to direct the new zoo pathology consortium created by a partnership between Brookfield Zoo, Lincoln Park Zoo, John G. Shedd Aquarium, the University of Illinois College of Veterinary Medicine, Loyola University, and the Edward Hines, Jr. Veterans Affairs Hospital.

Dr. Murnane will begin work in late August 1993. In his new capacity, Dr. Murnane will provide diagnostic service to both the Brookfield and Lincoln Park Zoos and to the Shedd Aquarium. He will contribute to the development of health maintenance programs and develop research among the two zoos, the aquarium, and the veterinary college. He will also train residents in the pathology of zoo and exotic species. Dr. Stephen Raverty and Dr. Timothy Walsh have been selected to enter the zoo pathology residency program.

While Dr. Murnane will hold an academic appointment with the College of Veterinary Medicine, he will be located in the Chicago area where he will travel to the zoos and aquarium on a regular basis. The Edward Hines, Jr. Veterans Affairs Hospital in Maywood and Loyola University of Chicago Stritch School of Medicine will serve as home bases and provide laboratory facilities.

Veterinary pathologists are the medical examiners of the animal kingdom, determining the cause of death in species from angelfish to zebras. Working hand in hand with veterinarians and wildlife rehabilitators, veterinary pathologists play a vital role in the preservation of unique animal species. Modern zoos and aquariums are hiring veterinary pathologists to investigate the relationship between diseases and population dynamics.

**"This situation offers a unique and challenging opportunity of developing and leading a zoo pathology program which actualizes the vision of wildlife conservation."**  
-Dr. Murnane



"This situation offers a unique and challenging opportunity of developing and leading a zoo pathology program which actualizes the vision of wildlife conservation," says Dr. Murnane. He notes that zoos across the world are of immense importance in the preservation and reintroduction of many wild species.

"Brookfield Zoo is pleased to contribute to the international advancement of animal care and conservation through this program. It has all the ingredients necessary for success: the expertise of the University of Illinois' Dr. Murnane and participating zoo and aquarium professionals," says Dr. George B. Rabb, Brookfield Zoo director. "We are happy to complement the effort with our new zoo animal hospital."

Dr. Murnane, a California native, earned undergraduate degrees in zoology and wildlife management from Humboldt State University, Arcata, California, in 1980. He received his Doctor of Veterinary Medicine degree from the University of California at Davis in 1985. He continued his training by completing a combined residency and PhD in veterinary pathology from Washington State University in 1989.

Afterward, Dr. Murnane joined the Departments of Veterinary Pathobiology and Veterinary Clinical Medicine at the University of Illinois College of Veterinary Medicine at Urbana as an associate veterinary pathobiology professor. His responsibilities included teaching, research and diagnostics. Since 1991, Dr. Murnane has been the veterinary pathologist for the Zoological Society of San Diego. He is a diplomate of the American College of Veterinary Pathologists. ■

### Inside this Issue

**Page 2** ● Dr. Lloyd Helper, longtime member of the college faculty, retires.

**Page 2** ● Find out what the statistics are for the incoming veterinary Class of 1997. They're a versatile group.

**Page 3** ● The college welcomes several new faculty to its ranks.

**Page 3** ● Dr. Murli Manohar delves into the method of action lasix has on bleeding in racehorses, with hopes that his research will lead to additional treatment modes.

**Page 6** ● The college's ophthalmology section obtains a new electroretinogram which will permit enhanced diagnostic service to clients.

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## After 38 Years, Dr. Lloyd Helper Retires

ONE OF ILLINOIS' OWN who has made a name for himself in veterinary ophthalmology and then served the college in administration is retiring on August 21, 1993. Dr. Lloyd C. Helper, associate dean for academic and student affairs, has served the college for 38 years.

Immediately after graduating in 1955, Dr. Helper was hired as an instructor at the college. Except for a two-year stint in the U.S. Air Force Veterinary Corps and one year at Stanford Medical School, he has been with the college ever since.

He recalls that when he started, students were assigned to professors rather than to discipline areas. As a result, veterinary students spent five out of nine clinic rotations on large animals, two on small animals, and two on ancillary services. At Dr. Helper's urging, that system was changed to one that reflected actual practice patterns more closely.

Initially, Dr. Helper did both medicine and surgery, which meant that he saw most of the eye cases. That interest and study, including a postdoctoral fellowship at Stanford, led to his becoming a charter diplomate (or member) of the American College of Veterinary Ophthalmologists (ACVO) in 1971. Soon



afterwards, Dr. Helper started the ophthalmology section at the college, one of the first specialty sections in the college. The section gained world renown.

He served as chief of the college's ophthalmology section until 1984, when he relinquished his position upon assuming his current duties as associate dean of academic and student affairs.

In 1985, Dr. Helper served as president of the ACVO. During 1986, he served as president of the Illinois State Veterinary Medical Association. He also was active in the local Eastern Illinois Veterinary

Medical Association for a number of years and served as its secretary-treasurer and president. He currently is treasurer of the International Society of Veterinary Ophthalmology.

Two of his children have also earned veterinary degrees from Illinois.

Travel is first on his agenda upon retirement. Dr. Helper also expects to continue limited consulting with drug companies and to do clinics on inherited eye diseases for breed groups. He hopes to finish up some research and writing, and then to do a lot of skiing, hiking, fishing, and visiting grandchildren with his wife, Jean, in Colorado, New Mexico, Texas and Indiana.

## Gene Greek, College's Assistant to the Dean, Retires from College

HE'S SEEN A LOT of comings and goings at the college, financial and otherwise. Gene Greek, assistant to the dean, won't be overseeing the college's Business Office anymore, however. After serving the college for 20 years under three different deans, Greek retired on August 21, 1993.

"Initially, I'm going to see if it's possible to get sick of playing golf and fishing," he laughs.

A 1959 business graduate of Eastern Illinois University, Charleston, Ill., Greek came to the college in 1973 to handle personnel and fiscal affairs. When Dean Dierks came on board in 1977, the personnel duties were shifted to other administrators and Greek became more involved in the fiscal relationship between the college and campus. He also served on



the Campus Negotiation Committee for the Association for Federal, State, County and Municipal Employees, Local 698. Since 1981, he served as the college's Campus Charitable Fund Drive coordinator, and has watched the level of contributions pick up.

He notes that he has seen a change in facilities over the years and growth of the college. He oversaw a shift from centralized fiscal control in the college to departmental control.

After retirement, he looks forward to doing a lot of things he's always been interested in, including golf, fishing, gardening, travel, civic activities, and expanded involvement in church work.

## College Happenings

## New Acuson Ultrasound Unit to Update Services at College

IN LATE AUGUST, the college obtained a new Acuson 128/10 color doppler ultrasound unit. The unit will enhance the existing ultrasound diagnostic services, providing very high resolution images and adding doppler to what was previously just a two-dimensional image. (Doppler depicts the direction of blood flow to an area.)

This equipment is similar to that being used for cardiac ultrasound at the college. However, it will be used primarily for abdomens and peripheral vasculature, and therefore requires different software capabilities.

In addition to being useful for diagnosing clinical cases (including urinary tract examinations, pregnancy checks,

liver disease, ascites or fluid in the abdomen, aneurysms, thromboses or blood clots, large animal thoraxes, and detecting cancer or masses), Dr. Jennifer Lowry, radiologist at the college who specializes in ultrasound, foresees the unit to be a very useful research tool.

She notes that this equipment is state-of-the-art, and includes many special features such as "cine," which allows one to go back and look at an image frame-by-frame. This feature can be very useful either for teaching or for choosing the best image for a photograph intended for publication.

"Ultrasound has been compared to exploring a cavern with a flashlight," says Dr. Lowry. "Interpretation of the

images is difficult. It takes years to become proficient at ultrasound. Good training and thorough examination techniques are necessary for obtaining the best results."

With the new ultrasound unit, specialists at the college can provide enhanced diagnostic services to referral cases.

The previous ultrasound unit will continue to be used on many large animal cases. According to Dr. Lowry, there is always potential for equipment damage when working around large animals, so use of the new equipment will be limited to cases requiring high resolution images or investigation of blood flow.

## Dates to Remember

**October 7-8, 1993**  
**Annual Fall Conference for Veterinarians.** Contact Dr. LeRoy Biehl (217/333-2907).

**October 7-9, 1993**  
**12th Annual Delta Society Conference** on the Interactions of People and Animals, St. Louis, Missouri. Contact Maureen Fredrickson at the Delta Society (206/226-7357).

**October 9, 1993**  
**Vet Med Fall Conference Tailgate.** Football opponent is Ohio State. Contact Terry Rathgeber (217/333-2762).

**November 25-26, 1993**  
**Thanksgiving holiday,** campus closed.

**December 24-27, 1993**  
**Christmas holiday,** campus closed.

**December 30-31, 1993**  
**Holiday,** campus closed.

**January 17, 1994**  
**Martin Luther King Day,** campus closed.

**January 17, 1994**  
**North American Veterinary Conference,** Orlando, Florida, alumni reception.

**February 21, 1994**  
**Western States Veterinary Conference,** Las Vegas, Nevada, alumni reception.

**March 11, 1994**  
**Spring Break Day,** campus closed.

**May 30, 1994**  
**Memorial Day observed,** campus closed.

## Veterinary REPORT

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## ADMISSION STATS AVAILABLE FOR CLASS OF 1997!

The University of Illinois College of Veterinary Medicine received 288 applications for admittance into the Class of 1997.

Ninety-six offers of admission were extended for the 86 positions. Sixty-eight of the applicants are female, 28 are male. Thirty-five of the 96 applicants had a B.S. or B.A. degree at the time of selection, two had an M.S. or M.A. degree.

### CLASS OF 1997 ADMISSION STATISTICS

NUMBER	96
VCAT COMPOSITE SCORE	75
CUMULATIVE GPA	4.49
SCIENCE GPA	4.44
SUBJECTIVE AVERAGE	23.3

### CLASS OF 1997 GEOGRAPHIC DISTRIBUTION

LEGAL RESIDENCE	NUMBER	LEGAL RESIDENCE	NUMBER
ILLINOIS	72	NEW JERSEY	3
AUSTRALIA	1	NEW YORK	4
CALIFORNIA	2	NORTH CAROLINA	1
CANADA	1	OHIO	1
COLORADO	2	PENNSYLVANIA	2
CONNECTICUT	1	PEOPLE'S REPUBLIC OF CHINA	1
DELAWARE	1	WISCONSIN	1
INDIANA	1		
KENTUCKY	1		
MARYLAND	1		

## College Welcomes New Faculty

**Dr. Ralph E. Hamor** began a position as visiting assistant professor of veterinary clinical medicine at the college on July 6, 1993. He is progressing towards board certification in veterinary ophthalmology.

Dr. Hamor received his DVM degree from the University of Missouri at Columbia in 1987. After graduation, he served an internship in small animal medicine and surgery at Auburn University in Alabama. He then spent 11 months with a private small animal practice in



Prattville, Alabama, and another 13 months with an emergency clinic in Montgomery, Alabama.

In July 1990, Dr. Hamor entered a residency at Colorado State University at Fort Collins, where he earned an MS degree in comparative ophthalmology. His research was performed in tear production in dogs and in electroretinography. He is looking forward to continuing his electroretinography work at Illinois.

Dr. Hamor and his wife, Marcia, have two children, ages 5 years and 7 months.

**Dr. Gavin Meerdink**, clinical professor of toxicology in veterinary biosciences at the college, has been appointed quarter-time as a Beef Cattle Extension and Feed Safety veterinarian starting July 1, 1993. He will continue his diagnostic toxicology duties, but will be available to answer questions on beef cattle and feed safety.

He expects to assist with continuing education programs in these areas as well.

Dr. Meerdink, a 1970 Iowa State graduate, has been at Illinois since 1989. Board certified in veterinary toxicology,



Dr. Meerdink has always had a strong interest in beef cattle. Between 1979 and 1983, he had a partial beef and toxicology Extension appointment while working at Michigan State University's College of Veterinary Medicine in Lansing, Michigan. Before coming to Illinois, he was chief diagnostician for the University of Arizona Veterinary Diagnostic Laboratory.

He will retain his office in the college's Diagnostic Laboratory, but will work closely with the staff of the college's Continuing Education and Public Service (CEPS)/Veterinary Extension unit.

On August 21, 1993, **Dr. Silvia Moreno** was appointed to assistant professor of veterinary pathobiology at the University of Illinois College of Veterinary Medicine at Urbana. She had held a visiting assistant professor position at the college for the last three years.

Dr. Moreno's research involves studying the regulatory pathways of parasites such as the African trypanosomes. A detailed understanding of these processes could contribute to the identification of new opportunities for antiparasitic chemotherapy. Eventually, she plans to establish a research group devoted to the study of signal transduction in parasites. She would like to extend her studies to other parasites, such as *Toxoplasmosis*.



Dr. Moreno got her PhD degree in biochemistry from the University of Buenos Aires School of Natural Sciences in 1982. She then served as a postdoctoral fellow at the National Institute of Environmental Health Sciences (NIH) in Research Triangle Park, North Carolina. Prior to coming to Illinois in 1990, she served as a research associate at Rockefeller University.

Her husband is Dr. Roberto Docampo, also a researcher in the veterinary pathobiology department at the college.

Dr. Moreno has two children. She enjoys classical music, reading, and movies.

**Dr. Robert Murnane** has been selected to head up the new zoo pathology consortium between the Chicago-area zoos, the Shedd Aquarium, and the college (see story on page 1).

## Illinois Study: Pulmonary Capillary Blood Pressure and Lasix Could Offer Clues to EIPH in Racehorses

BY KIMBERLY MEENEN

During his 20 years of studying cardiopulmonary physiology in horses and ponies, Dr. Murl Manohar, an equine veterinarian at Illinois' College of Veterinary Medicine, has had his share of successes. But his technique for determining pulmonary capillary blood pressure in racehorses could be one of his greatest accomplishments yet.

According to Dr. Manohar, although exercise-induced pulmonary hemorrhage (EIPH) is a well-recognized entity in racehorses, its cause is unclear. Recent work suggests that stress failure of the pulmonary capillaries in the lungs leads to EIPH. Horses suffering from EIPH hemorrhage from the lungs when strenuously exercised. They are often referred to as "bleeders."

For years, many racehorse owners and trainers have used furosemide (lasix), a potent diuretic, to minimize the bleeding. "But no one really knew why the bleeding occurred or what lasix did to reduce it," says Dr. Manohar.

In a study funded by the Grayson-Jockey Club Research Foundation, Dr. Manohar set out to discover what causes the bleeding in racehorses and what effect lasix has on pulmonary capillary blood pressure. To do this, he used devices called "cardiac catheters" which were custom designed to measure opposing forces (forward and backward) affecting blood flow through the lungs.

Right atrial, right ventricular, pulmonary artery, and pulmonary artery wedge pressures were examined in eight healthy Thoroughbred horses at racing speeds on the college's high-speed treadmill and at rest. Dr. Manohar explains that the cardiac catheter measures the pressure exerted on the pulmonary capillaries both upstream and downstream within the horse's lungs during exercise. The pulmonary capillaries are very thin-walled vessels located in air sacs of the lungs—less than 1/1,000 of a millimeter thick. The catheters are inserted via the neck vein to record these pressures prior to exercise.

Without lasix, the pulmonary capillary blood pressure measured 25-27 mmHg (millimeters of mercury) at rest. At racing workloads without lasix, pressure increased to 90-95 mmHg. That's more than a three and one-half



Studies conducted by Dr. Murl Manohar (second from left) on pulmonary capillary blood pressure and lasix could give important clues about EIPH in race horses. Working with him are (left to right) Elizabeth Hutchens, third-year veterinary student; Beth Saupe (holding horse), veterinary technician; and Donald Lantz, veterinary technician.

fold increase and enough pressure to cause bleeding.

Horses were then administered the legally allowed dose of lasix. Four hours after receiving lasix, the horses were put back on the treadmill and remeasured. Pulmonary capillary blood pressure measured 70-75 mmHg—a reduction of about 20 mmHg.

"This reduction in pulmonary capillary blood pressure means that there will be a reduction in the extent of EIPH because the force pushing the blood out of the vessels has been lowered," notes Dr. Manohar.

These findings were published in the June issue of the *American Journal of Veterinary Research*. Beth Saupe, a veterinary technician at the college, provided technical assistance for this project.

"This research opens avenues to look at other means of preventing bleeding other than lasix," says Dr. Manohar. He added that in the future he would like to study the effectiveness of various lasix dosage levels. He would also like to research the interaction of lasix when combined with other drugs such as phenylbutazone. ■

## Research Projects Funded between April and June 1993

### EQUINE

Baker GJ, Clark RB, Pijanowski GJ, Eurrell JC, Maria Caele Program, \$4,720, "Equine Metacarpophalangeal Joint: Correlation Between Anatomy and Magnetic Resonance Imaging."

Constable PD, BRSG, \$4,894, "Experimental Characterization of 2 Parameters (Ka7/Atot) of a New Acid-base Model."

DiPietro JA, Equi Aid Products Inc, \$9,536, "Consumption of Strongid C and Generic Pyrantel Tartrate in Horses."

Foreman JH, Schering-Plough Corporation, \$18,146, "Comparison of the Effects of Flunixin Meglumine and Ketoprofen on Experimentally-induced Lameness in the Horse."

Foreman JH, American Horse Shows Association, \$4,980, "Hypothyroidism and Exertional Myopathy (Tying-up) in Horses."

### GENERAL

Beasley VR, Greenwell M, Brown LE, Nichols DK, John G, Shedd Aquarium, \$14,857, "Assessment and Health Status of Cricket Frogs (*Acris crepitans*) and Environmental Quality in Areas of Abundant and Reduced Populations."

Bunic D, Campus Research Board, \$12,900, "Regulation of Gene Expression During Germ Cell Differentiation."

Cox DK, US Army, \$74,594, "Laboratory (USACERL) Envirotoxt Database and Document Research and Formulate Statutory Abstracts for the USA-CERL Engineering Research."

Taylor GD, Thulin JD, Morton DG, Carle Foundation Hospital, \$4,000, "Carle Foundation Hospital Medical Research Laboratory Animal Medicine and Welfare Consultation."

Taylor GD, Thulin JD, Morton DG, Illinois State University, \$6,000, "Illinois State University Laboratory Animal Medicine and Welfare Consultation."

### RUMINANT

Lichtensteiger CA, BRSG, \$5,000, "Naturally Processed Lentivirus Peptides Presented to Cytotoxic T Lymphocytes."

### SMALL ANIMAL

Beasley VR, Bay Foundation, \$10,000, "Envirotoxt: Program in Aquatic Animal Health & Environmental Toxicology."

Docampo R, Moreno SN, NIH, \$184,889, "Mode of Action of Trypanocidal Drugs: Involvement of Ca<sup>2+</sup>."

Foley GL, Maretta SM, BRSG, \$2,000, "Evaluation of Marking Materials for Cutaneous Surgical Margins."

Gerding PA, Ramsey DT, American Animal Hospital Association Foundation, \$6,259, "Evaluation of Topical Tissue Plasminogen Activator on Intracocular Fibrinolysis in Dogs."

Gerding PA, Ramsey DT, Fight For Sight Inc., \$10,000, "Evaluation of Canine Idiopathic Bilateral Extraocular Polyomyositis as an Appropriate Animal Model for the Study of Grave's Orbitopathy in Human Beings."

Jones CJ, BRSG, \$5,141, "Lyme Disease in Northwestern Illinois: Reservoir Potential of Mammalian Hosts of *I. dammini* Ticks."

Kakoma I, Chonbuk National University, \$14,000, "Immunoprophylaxis Against *Theileria sergenti* Infection with Synthetic Peptide and Development of the Polymerase Chain Reaction for Diagnosis of the Disease."

Kakoma I, Pitman-Moore Inc., \$21,000, "Gift to Support Parasitology Research."

Morton LD, Procter & Gamble Company, \$13,500, "A Corneal Tissue Equivalent for In Vitro Ocular Toxicity Testing. Phase 1: Morphologic Characterization."

### SWINE

Hahn EC, Scherba G, Gibbs EPJ, USDA, \$50,000, "Transmission Biology of Pseudorabies in Feral Swine."

Hahn EC, Illinois Park Producers Association, \$5,000, "Effect of Vaccination on the Development of Mucosal Immunity."

Haschek WM, Beasley VR, Illinois Park Producers Association, \$12,000, "Pathogenesis of Fumonisin-induced Porcine Pulmonary Edema (PPE)."

Hungerford LL, Pig Improvement Company, \$4,284, "Identification of Critical Factors for Prevention of Transport Injury and Mortality in Selected Breeding Stock."

Kuhlenschmidt MS, Gelberg HB, Biotech Research Development Corporation, \$59,884, "Efficacy of Sialyloligosaccharides for Control of Rotavirus Disease in Swine."

Scherba G, Campus Research Board, \$11,718, "Development of In Situ Polymerase Chain Reaction-hybridization for the Detection and Quantification of Acute and Latent Aujeszky's Disease (Pseudorabies) Virus Infections."

Weigel RM, Campus Research Board, \$9,000, "Risk of Toxoplasma Gondii Infection for Workers and Residents of Swine Farms in Illinois."

Zachary JF, Swen Sonic Corporation, \$20,000, "Ultrasound Interaction with Biological Materials."



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 Scott Animal Clinic, Philo, IL  
 Shields, Dr. John A., Pana, IL  
 Shoemaker Avenue Animal Hospital, West Wyoming, PA  
 Sibley Animal Hospital, Calumet City, IL  
 Southland Veterinary Clinic, Freeport, IL  
 Spears Veterinary Clinic, Carbondale, IL  
 Stowe, Dr. Oliver W., Greenville, IL  
 Teegarden Veterinary Clinic, Washington, IL  
 Thomas Animal Clinic, Belleville, IL  
 Tremont Veterinary Clinic, Tremont, IL  
 24th Street Animal Clinic, San Francisco, CA  
 Vernon Hills Animal Hospital, Mundelein, IL  
 Veterinary Services, Ltd., Breese, IL  
 Village Animal Clinic, Chesterfield, MO  
 Wheatland Animal Hospital, Naperville, IL  
 Winsted Hospital for Animals, Winsted, CT



## Teaching "Horse Sense" is Mane Event for Dr. Scoggins

BY KIMBERLY MEENEN

If you track down Dr. R.D. Scoggins at the College of Veterinary Medicine, more than likely you'll find him teaching people "horse sense."

As one of six Extension veterinarians who make up the college's Continuing Education-Public Service/Extension (CEPS) section, he handles hundreds of phone calls every year ranging from inquiries on safe ammonia levels in box stalls to tips on safely trailering a horse. He also teaches workshops on equine behavior.

"Today's horse public has very little 'horse sense.' They focus more on what they want to do with the horse, and less on what the horse wants to do. Many horse owners believe a horse should think like a person rather than a horse," he says.

"While I was in practice, I noticed that horse owners were having a lot of handling/behavior problems. I wanted to lessen the stress on the horse and the owner."

As a result, he began to gather information and attend behavior workshops in hopes of teaching handling skills to horse enthusiasts. He credits most of his knowledge to horse trainer Ray Hunt of Las Cruces, New Mexico.

For the past four years, Dr. Scoggins has taught equine handling techniques to veterinary students and horse production/management students at Southern Illinois University, Parkland

College, Blackhawk College, University of Wisconsin-Madison, and Purdue University. He has also taught these skills to horse owners through the Illinois and Hoosier Horse Councils.

"Training a horse is like learning to ballroom dance. If you and your partner are not in agreement, you're going step on each other's toes. As you learn, you master that soft sense of contact, without using weight or pressure. You learn to complement each other," he says.

In a flyer promoting one of Dr. Scoggins' equine behavior workshops, Dr. Gayla Sargent, equine instructor at Parkland College wrote, "The handling techniques used by Dr. Scoggins involve the use of the natural instincts and abilities of the horse. They are based on an increased awareness of the handler's own body language and the interpretation of such language by the horse. These techniques can be applied to horses of all breeds, all ages and all levels of training."

Dr. Scoggins came to the college as an Extension equine veterinarian in 1977. Although horses are his primary interest, he also assumes the responsibility of sheep Extension veterinarian. After receiving his DVM from Michigan State University in 1960, he entered a mixed practice in Michigan. There, his emphasis shifted exclusively to horses. In 1968, he worked as the resident veterinarian at Al-Marah Arabians in Barnesville,



J.L. MORALES

Dr. R.D. Scoggins, equine Extension veterinarian at the college, performs a dental exam on a horse.

Maryland. In 1970, he moved to Washington County, Pennsylvania where he owned an exclusive equine practice for seven years.

Dr. Scoggins also has a special interest in equine dentistry. Recently, he coordinated and spoke at two equine dentistry workshops for veterinarians on April 1st and 3rd. The Orland Park Equine Hospital, Orland Park, Ill., hosted the first workshop. The second workshop took place at the college. Veterinarians interested in equine dentistry came to learn the basics of performance horse dentistry, see the latest advancements in techniques and equipment, and gain "hands-in-mouth" maintenance skills.

"Often horse training and behavior problems are directly related to a sore mouth," says Dr. Scoggins. "A thorough oral exam and any necessary dental work performed before a young horse begins training can improve performance and avoid negative training discomfort. A 'happy' mouth allows the horse to concentrate on what it is being asked to do."

To obtain details on future equine behavior or dentistry programs or to ask horse health questions, contact Dr. Scoggins at (217/333-2907). ■

## The Eyes Have It:

### New Ophthalmology Equipment at College Helps Diagnose Problems

EQUIPMENT PURCHASED in order to study the earliest effects of glaucoma on the canine retina is also being pressed into service to help detect early or subtle cases of progressive retinal atrophy (PRA) at the University of Illinois Veterinary Medicine Teaching Hospital. PRA is a condition where the retina begins to deteriorate, causing vision loss.

The new EPIC-2000 computerized electroretinogram (ERG) allows veterinary ophthalmologists at the college to probe beyond cloudy cataracts or other opacities in a dog's eyes.

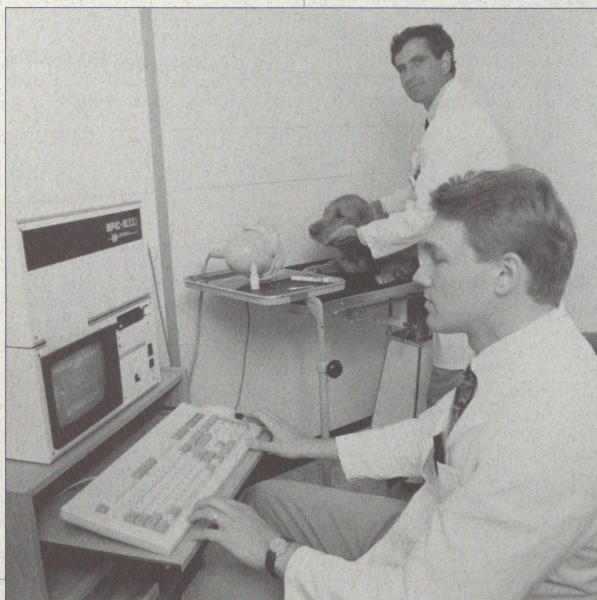
According to Dr. Paul Gerding, a veterinary ophthalmologist at the college, "This equipment allows us to provide better service to our clients."

Patients are anesthetized and fitted with a "contact lens" which is attached to a wire. The wire transmits readings from the eye into a computer.

Using strobe light flashes, the ERG unit provides measurements of the eye's retinal layers. The changes recorded by the unit are more subtle than what could be observed using an ophthalmoscope.

The equipment was purchased with a grant from the university's

Research Board along with funds from the veterinary clinical medicine departmental office. It will be used primarily for research, but is available for clinical diagnostic work as well.



J.L. MORALES

Dr. Ralph Hamor (front) and Dr. Paul Gerding (back) perform an electroretinogram on a dog.

## Veterinary REPORT

### SUBMISSION DEADLINES

Please mail entries so they are received by the dates listed below to ensure full consideration. Due to space limitations, submissions may need to be edited.

Winter 1993-Nov 8

Spring 1994-Feb 4

Summer 1994-May 2

Fall 1994-July 15

## Are You a Member



of  
the Alumni  
Association

## Alumni Notes

■ **Dr. Alexander Winter**, 1955, professor of microbiology at Cornell University's College of Veterinary Medicine, Ithaca, New York, was recently named James Law Professor of Microbiology. These Cornell professorships recognize faculty members who have earned national and international distinction in veterinary medicine and the biomedical sciences, and who demonstrate academic excellence and leadership.

■ **Dr. David A. McConnell**, 1956, Dundee, Ill., has been selected to participate in the 1993 Illini Comeback Program. The program, scheduled for October 28-30, 1993, is organized by the Student Alumni Association. Each year, they bring back six prominent alumni of diverse backgrounds to the campus during homecoming weekend to interact with students. The guests are asked to share their memories of student days, discuss their experiences within their careers, and join in the homecoming festivities. Dr. McConnell is only the second veterinary alumni to be selected.

■ **Dr. Jimmy Jones**, 1963, has joined the Peace Corps. He and his wife, Joy, will spend 27 months at the Cook Island of Rarotonga in the South Pacific. He is serving as extension veterinarian with the Ministry of Agriculture. His wife conducts teacher training with the Minister of Health. Their assignment is to help improve the island's agriculture production.

■ **Dr. Raymond H. Cypess**, 1967, has joined the American Type Culture Collection (ATCC) in Rockville, Maryland, as their director. ATCC is the world's premier biological culture repository. Previously, he had been at the University of Tennessee, Memphis.

■ **Dr. Michael Garvey**, 1974, chairman of the Department of Medicine at the Animal Medical Center in New York, received the American Association of Veterinary Clinicians' (AAVC) Faculty Achievement Award during the annual American College of Veterinary Internal Medicine meeting in May 1993. He has been instrumental in advancing the intern and resident matching program among colleges and qualified veterinary facilities. Dr. Garvey also received the Friskies Pet Care Award during the March 1993 American Animal Hospital Association meeting for his contributions to feline medicine.

■ **Dr. Douglas Feller**, 1977, has been promoted to the position of Director, Animal Science International Research, within Lilly Research Laboratories, a division of Eli Lilly and Company. He and his U.S. and internationally based staff will be responsible for all animal health research and development activities outside of the United States. Dr. Feller has been with Lilly since late 1981. He will continue to live in Greenfield, Indiana.

■ **Dr. Stephen Sundlof**, 1980, an associate professor in the Department of Physiological Sciences at the Uni-



Emeritus faculty and staff attended the Class of 1953 reunion dinner at the college. From left to right: Erwin Small, Helen Woods, George Woods, Ray Hatch, Dorothy Hatch, Paul Beamer, Carolyn Schiller, Al Schiller, Marjorie Bryan, Harold Bryan, Sy Manning, Harry Rhoades, Mary Frances Rhoades, Virginia Ivens, and Marie Keen.

versity of Florida College of Veterinary Medicine, Gainesville, has been selected as chair of the FDA's Veterinary Medicine Advisory Committee (VMAC). He has been active in determining the human food safety aspects of drug residues in foods of animal origin. Dr. Sundlof is known both nationally and internationally for his work on pharmacokinetics of animal drugs, especially in food animal species.

■ **Dr. Edward V. McGinniss**, 1984, opened his own veterinary hospital in July. Located in Lake Villa, Illinois, he will see primarily small animal patients, including some exotics. The practice is called Animal Care Center of Lake Villa.

■ **Dr. Beth Bicknese**, 1986, completed a two-year residency in zoological animal medicine at the San Diego Zoo and San Diego Wild Animal Park in July 1993. She has accepted an associate veterinarian position at the Baltimore Zoo, Baltimore, Maryland.

■ **Dr. Laura Brown**, 1987, has joined the staff of Community Animal Hospital in Pocatello, Idaho. She and her husband, Kris, an Abbott Pharmaceuticals representative, moved to the town in the spring of 1992.

■ **Dr. Joanne (Nielsen) Graham**, 1987, recently passed her board examination in oncology, making her a Diplomate of the American College of Veterinary Internal Medicine with a specialty in oncology. She served her residency in oncology at Illinois from 1989-1992.

■ **Dr. Dana Buoselo**, 1989, has attained diplomate status in the American College of Veterinary Internal Medicine with a specialty in cardiology. She completed her cardiology residency at the University of Illinois College of Veterinary Medicine in June.

■ **Dr. Susan Jones**, 1990, is returning to graduate school to pursue a PhD in the History and Sociology of Science. She has obtained a three-year fellowship at the University of Pennsylvania, Philadelphia. Her goal is to teach at the college level, plus research and write about social/medical issues such as animal welfare, women in human/veterinary medicine, and comparing euthanasia in veterinary medicine with its evolution in human medicine. She plans to continue practicing, also.



Members of the Class of 1953 and their spouses celebrated their 40-year reunion at the college on June 11th. From left to right: E.L. and Doris Kingry, John and Karen Ehrhardt, Paul and Ruth Burkitt, Leon and Orpha Striegel, Frank Adams and Nancy Coulter, Dan Holland and Betty Paultitz, Bernard and Charlotte Campbell, James and Doris Palmer, and Jerry and Bernice Banicki.

## In Memoriam

**Dr. Danny R. Kleckler**, 41, was killed in an accident on July 22, 1993 while moving equipment into his new clinic. He is survived by his wife, Susan. A 1977 graduate of the UI College of Veterinary Medicine, Dr. Kleckler was a partner in the North Central Embryo Service, Monroe, Wisconsin. A memorial has been established in Dan's name. Contributions can be mailed to the Orangeville Community Bank, 401 S. Church St., Orangeville, IL 61060.

## Broccoli Research, Cont'd from page 1

tain doses, CHB suppressed the growth and viability of the tumor cells while leaving the normal mammary cells intact. It seems that CHB elevates the substance, glutathione, which protects the cells from the reactive carcinogens. Their findings are scheduled to be published in an upcoming issue of *Toxicology Letters*.

"The synergy between CHB and selenium is promising initial evidence that CHB could have a role in chemoprotection or chemotherapy," says Dr. Wallig.

In another NIH-funded study, Illinois scientists fed laboratory rats corn oil containing subtoxic doses of CHB for six days. When tissues in the rats were examined, researchers found no cell

death but significantly elevated levels of glutathione especially in the pancreas. This suggests that CHB can be used to elevate tissue glutathione so that reactive chemicals can be detoxified before they react with tissues to cause cancer. These results appeared in the November 1992 issue of *Fundamental and Applied Toxicology*.

A number of studies have shown that a diet abundant in cruciferous vegetables—broccoli, Brussels sprouts, cabbage, cauliflower—can lower the risk of cancer. Researchers at the college plan to continue their studies and expand to other foods which may offer dietary chemoprotection. ■

More than 120,000 alumni are—including approximately 75,000 who are life members. As a member you'll receive *Illinois Quarterly* magazine six times a year and qualify for our tour program and insurance program (including term life and major medical). You'll be supporting an organization which exists only to serve alumni and the University. And you'll continue your loyal involvement with something great—your University of Illinois.

Alumni Association, 227 Illini Union, 1401 W. Green St., Urbana, Illinois 61801 (Make check payable to University of Illinois Alumni Association).

- ▲ One year single membership - \$25
- ▲ One year husband/wife - \$30
- ▲ Three year single membership - \$65
- ▲ Three year husband/wife - \$80
- ▲ Single life membership - \$350 (Installment plan: \$400 - \$20 down, four yearly payments of \$95)
- ▲ Husband/wife life membership - \$400 (Installment plan: \$450 - \$20 down, four yearly payments of \$107.50)

Name \_\_\_\_\_  
 SS# \_\_\_\_\_  
 Spouse's name (if an alumnus) \_\_\_\_\_  
 If female, please include maiden name \_\_\_\_\_  
 Does spouse have a U of I degree? \_\_\_\_\_  
 Address \_\_\_\_\_  
 College & dept \_\_\_\_\_  
 Year of graduation \_\_\_\_\_

Please Check:  
 Urbana-Champaign Campus     Chicago Campus     If you did not attend the University of Illinois, please check this box.



## College Briefs

● **Dr. Dave Sisson**, professor of veterinary clinical medicine, has been elected president of the Cardiology Specialty of the American College of Veterinary Internal Medicine. He will serve for the 1993-94 term.

● Six faculty members from the college participated in a Symposium on Outcomes Assessment in Veterinary Medical Education on May 17th and 18th at the University of Tennessee College of Veterinary Medicine in Knoxville. **Drs. Jo Ann Eurrell, Kristi Arndt Green, James Hixon, Ann Johnson, Gerald Pijanowski, and Mike Tumbleton** attended.

The symposium stressed the necessity of evaluating what students are learning and able to do after graduation as part of the accreditation process. It offered sessions on methods of assessment, what has happened at other universities, curricular and formative evaluation, how to prepare students, and how to develop and implement an assessment program. The group prepared a written summary highlighting the necessity of outcomes assessment, recommendations for the UI College of Veterinary Medicine, and a synopsis of speakers' presentations. The summary will be posted on the college's network bulletin board or contact Dr. Hixon for a hard copy.

● **Dr. Dana Buoscio**, resident in cardiology, was chosen to receive the "Resident Research Abstract Award" for an oral presentation entitled "Hemodynamic Effects of Isoproterenol Infusion in Normal Dogs" during the 1993 American College of Veterinary Internal Medicine Annual Meeting. The meeting was held in Washington, D.C. from May 19-23, 1993.

● **Dr. Philip Solter**, graduate student in veterinary clinical pathology, won the Beecham Award for the best poster presentation by a resident or graduate student at the 1993 American College of Veterinary Internal Medicine (ACVIM) Forum in Washington, D.C., on May 19-23, 1993. The title of his poster was "Relation of Liver Alkaline Phosphatase Activity to Hepatic Cholestasis and Bile Acids Concentrations in Prednisone-Treated Dogs."

● An exhibit honoring **Dr. Roger P. Link**, former head of veterinary pharmacology and physiology at the college, was on display in the Veterinary Medicine Library during June. During his 43-year career, Dr. Link was on the faculties of four universities, and served as AVMA president and ISVMA president. In 1992, a scholarship was created in his memory by his wife, Marjorie, and son, Ron. It provides \$1,000 to a veterinary student who demonstrates excellence in studies and leadership in the student chapter of the AVMA or other organized student veterinary groups. The display featured Dr. Link's AVMA gavel, surgical instruments, awards and historical photos. Library display cases are available on an intermittent basis to college faculty and staff. Contact Mitzi Williams at 333-2193 for information.



● **Carla Manuel**, secretary for veterinary pathology, was named the University of Illinois campus' first Office Professional of the Year. She received a plaque and certificate during the June 16,

1993 meeting of the Secretariat, an organization of supervisory-level staff employees at the University of Illinois. Manuel was chosen from among 20 nominees on the basis of her outstanding office professionalism.

● **Dr. Ann Johnson**, associate professor in veterinary clinical medicine/small animal surgery, was invited to Cambridge, Great Britain between June 25-July 2, 1993. She was asked to serve on the Examination Committee which helped administer the first Certifying Examination for the European College of Veterinary Surgeons. While there, she also gave two lectures entitled "Teaching Methods for Veterinary Surgery," and "Treatment of Complex Fractures."

● **Terry Rathgeber**, associate dean for development, was elected vice-president of the Association of Veterinary Development Professionals during the organization's annual meeting on July 20, 1993. The meeting was held in Minneapolis, Minnesota in conjunction with the AVMA convention.

● **Dr. Deoki Tripathy**, veterinary pathobiology, has been elected to the American College of Veterinary Microbiologists Board of Governors. His tenure on the board began on July 19, 1993, during the organization's annual meeting held in conjunction with the AVMA convention in Minneapolis, Minnesota.

● Professor emerita **Virginia R. Ivens**, who taught parasitology at the college for 37 years before retiring in 1988, recently established a scholarship designed to help women or minority veterinary students. Based on financial need, the award is presented to two first-year students. The selected students shall continue to receive the scholarship support during the remaining years of their DVM academic program.

Professor emerita Ivens remembers the challenges she encountered during her own educational years, and would now like to render some much-needed assistance to these students who are experiencing financial hardship.

● **Dr. Laura Gumprecht**, 1993 graduate, has been accepted as a Merck Research Fellow at the University of Illinois College of Veterinary Medicine. She will train under the supervision of **Dr. Wanda Haschek-Hock**, veterinary pathobiology, in the newly established "Training Program in Toxicologic Pathology." The research fellowship from Merck is part of the Department of Safety Assessment's goal to foster the training of promising individuals in toxicologic pathology.

### The Caleel Fund

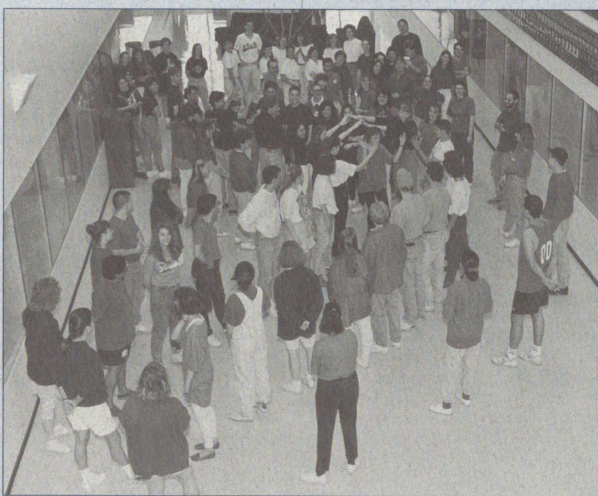
ON JUNE 26-27, 1993, the college hosted the fifth annual Illini Benefit Hunter Show. Proceeds from this show benefit the Maria Caleel Fund for Equine Sports Medicine Research. The Caleel Fund was established at the University of Illinois College



TANIA BARK

of Veterinary Medicine in 1989 in memory of Maria Louise Caleel, a first-year veterinary student who died tragically in March of 1988. The Caleel Fund helps support research focused on problems of the athletic horse, such as navicular disease, cardiovascular physiology during exercise, and the effects of hypothyroidism on exercise.

This is the second year the show was held on college grounds and the first year it was a two-day event. Nearly 40 riders participated in 64 classes in 19 divisions. Contributions to the fund are always welcome.



LI MORALDES

The class of 1996 put together a human model of the nephron for three extra credit points in Dr. Gary Sherman's veterinary physiology I course. Nephrons are the "plumbing" system in the kidney. The entire project was designed and orchestrated by Christine Merle and Margie Minnett, both first-year veterinary students. Color-coordinated t-shirts and other props helped distinguish various parts of the "interpretive dance of the nephron."

## Six New Residents Begin Their Service

SIX RESIDENCY positions at the college have recently turned over. Residents spend three years at Illinois, concentrating on cases in their area of interest. Upon completion of their terms, most have generally attained board certification in their specialty area.

In small animal medicine, **Dr. Lisa Down**, a Texas A&M graduate, will be

working on her PhD while completing an internal medicine residency.

**Dr. Carol Marks**, University of Guelph, is also pursuing small animal internal medicine. **Dr. Leslie Henshaw**, Oklahoma State University, is studying dermatology, while **Dr. Renee Riepe**, University of Tennessee, will be concentrating on cardiology.

● The College of Veterinary Medicine served as the site of a trustee retreat for the University of Illinois Board of Trustees on Thursday, July 8th. Ten board members, including UI President Stanley Ikenberry and new chancellor Michael T. Alken, along with a host of university officers and staff, spectators, and media spent the day at the college. They brainstormed a variety of university philosophies and policies. The group enjoyed lunch in the college's spacious Atrium. Special thanks to all college faculty and staff for sprucing up their areas in preparation for a tour request.

**Dr. Kevin Winkler**, University of Georgia, is the new small animal surgery resident.

**Dr. Carol Vischer**, University of Illinois, is working in equine internal medicine. The food animal residency has not been filled yet.

Often, residents are the contact person on cases referred to the university.

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From left to right: **Drs. Lisa Down, Carol Vischer, Kevin Winkler, Leslie Henshaw, Carol Marks, Renee Riepe.**



BOB WATERS

They work closely with faculty in their chosen specialty area.