

## NEW YORK STATE COLLEGE OF VETERINARY MEDICINE

### ADMINISTRATION

Robert D. Phemister, dean

Donald F. Smith, associate dean for veterinary education

Douglas D. McGregor, associate dean for research and graduate education

John F. Cummings, secretary of the college

John A. Lambert, assistant dean for administration

Eugenia G. Kelman, assistant dean for student services

Timothy T. Redden, assistant dean for public affairs

Gloria R. Crissey, registrar, director of financial aid

Katherine M. Edmondson, director of educational development

### DEPARTMENT CHAIRS

Anatomy: C. Farnum

Avian and Aquatic Animal Medicine: B. Calnek

Clinical Sciences: B. Farrow

Diagnostic Laboratory: D. Lein

Microbiology, Immunology, and Parasitology: R. Avery

Pathology: B. Pauli

Pharmacology: G. Sharp

Physiology: D. Robertshaw

### THE COLLEGE

The College of Veterinary Medicine offers a professional program that requires four years of full-time academic and clinical study of the normal and abnormal structure and function of the animal body and the diagnosis, treatment, and prevention of animal disease.

Graduates of the college receive the Doctor of Veterinary Medicine (D.V.M.) degree, which is recognized by licensing boards throughout the world. Graduates generally enter private practice, academia, or become engaged in one of the increasing number of other biomedical activities.

Admission requires a minimum of three years of college work, including specific prerequisite courses and experience. Applications must be filed approximately one year before the proposed matriculation date. The competition for admission is keen, since there are many more qualified applicants than can be admitted.

Graduate programs in veterinary research and postdoctoral training in clinical specialties are open to Doctors of Veterinary Medicine and some highly qualified holders of baccalaureate

degrees and lead to the degree of Master of Science or Doctor of Philosophy.

More detailed information is contained in the Catalog of the College of Veterinary Medicine, which may be obtained by writing to the college.

Note: 500- and 600-level courses are open only to veterinary students except by written permission from the instructor.

The College of Veterinary Medicine has revised its curriculum; the new course requirements apply to the class that matriculates in the fall of 1993 and to subsequent classes. The previous course requirements remain in effect for the Class of 1995 and Class of 1996. Courses in the revised curriculum are designated with the prefix "VTMED"; courses in the previous curriculum are designated with prefixes indicative of their originating department.

### FOUNDATION

VTMED 510 The Animal Body Fall.

VTMED 517 Animals, Veterinarians and Society, Part A Fall.

VTMED 520 Genetics and Development Fall, spring.

VTMED 521 Neuroanatomy and Clinical Neurology Spring.

VTMED 527 Animals, Veterinarians and Society, Part B Fall, spring.

VTMED 530 Function and Dysfunction, Part I Spring.

VTMED 531 Function and Dysfunction, Part II Fall.

VTMED 537 Animals, Veterinarians and Society, Part C1 Spring.

VTMED 538 Animals, Veterinarians and Society, Part C2 Fall.

VTMED 540 Host, Agent, and Defense Fall.

VTMED 547 Animals, Veterinarians and Society, Part D Fall.

VTMED 550 Animal Health and Disease, Part I Spring.

VTMED 557 Animals, Veterinarians and Society, Part E1 Spring.

### DISTRIBUTION

VTMED 601 Anatomy of the Carnivore Spring.

VTMED 602 Anatomy of the Horse Spring.

VTMED 603 Anatomy of the Ruminant Spring.

VTMED 604 Comparative Anatomy: Patterns and Function Spring.

VTMED 605 Biomechanics: Concepts and Techniques (also VETA 604) Spring.

VTMED 606 Natural History and Ecology of an Estuary and Barrier Islands Spring.

VTMED 607 The Literature of Natural History Spring.

VTMED 610 Veterinary Aspects of Avian Biology Spring.

VTMED 611 Fish Health Management Spring.

VTMED 612 Management of Aquarium Systems Spring.

VTMED 620 Molecular Biology and Immunology of Host-Parasite Interactions (also VETMI 702) Spring.

VTMED 630 Clinical Biostatistics for Journal Readers Spring.

VTMED 632 Senior Seminar Distribution Fall, spring.

VTMED 633 Introduction to Non-traditional Companion and Laboratory Animals Spring.

VTMED 634 Introduction to Large Animal Ambulatory Practice Fall, spring, summer.

VTMED 635 Introduction to the Professional Literature (also VETCS 601) Spring.

VTMED 636 Introduction to Dairy Management Systems Spring.

VTMED 637 Introduction to Community Practice Service Fall, spring, summer.

VTMED 660 20 Questions on ECM (Extracellular Matrix) Spring.

VTMED 680 Behavior Problems of Horses (also VETPH 626) Spring.

VTMED 681 Behavior Problems of Small Animals Spring.

VTMED 682 Acid Base Relations (also VETPH 627 and Biological Sciences 715) Fall, spring.

### ANATOMY

VETA 505 Applied Anatomy Fall.

VETA 506 Applied Anatomy Spring.

VETA 600 Special Projects in Anatomy Fall and spring.

VETA 601 Research Opportunities in Veterinary Medicine Fall, January, spring, and summer.

VETA 602 Advanced Clinical Neurology Spring.

VETA 604 Biomechanics: Concepts and Techniques (also VTMED 605) Spring.

### AVIAN AND AQUATIC ANIMAL MEDICINE

VETAV 555 Avian Diseases Fall.

VETAV 614 Research Opportunities in Veterinary Medicine Fall, January, spring, and summer.

[VETAV 663 Veterinary Medicine in Developing Nations Spring.]

VETAV 672 Aquavet I: Introduction to Aquatic Veterinary Medicine Mid-May to mid-June.

VETAV 673 Aquavet II: Comparative Pathology of Aquatic Animals Mid-May to early June.

VETAV 770 Advanced Work in Avian Diseases Spring.

VETAV 772 Advanced Work in Aquatic Animal Diseases Fall and spring.

VETAV 773 Advanced Work in Avian Immunology Fall and spring.

## CLINICAL SCIENCES

- VETCS 520 Preventive Medicine in Animal Health Management Spring.
- VETCS 547 Practice Management Fall, spring, and summer.
- VETCS 548 Anesthesiology Fall.
- VETCS 562 Theriogenology II Fall.
- VETCS 563 Large Animal Medicine and Surgery Fall.
- VETCS 564 Large Animal Medicine and Surgery Spring.
- VETCS 566 Radiographic Techniques Fall.
- VETCS 567 Clinical Nutrition Fall.
- VETCS 570 Theriogenology Service Spring.
- VETCS 572 Senior Seminar Fall and spring.
- VETCS 574 Large Animal Surgery Service Fall, spring, and summer.
- VETCS 575 Ambulatory Service Fall, spring, and summer.
- VETCS 578 Clinical Anesthesiology Service Fall, spring, and summer.
- VETCS 580 Radiology Service Fall, spring, and summer.
- VETCS 582 Large Animal Surgical Exercises Spring.
- VETCS 583 Small Animal Medicine and Surgery Fall.
- VETCS 584 Small Animal Medicine and Surgery Spring.
- VETCS 586 Small Animal Surgical Exercises Spring.
- VETCS 588 Cardiology Service Fall and spring.
- VETCS 589 Small Animal Medicine and Community Practice Services Fall, spring, and summer.
- VETCS 591 Small Animal Surgery Service Fall, spring, and summer.
- VETCS 593 Ophthalmology Service Fall, spring, and summer.
- VETCS 594 Large Animal Medicine Service Fall, spring, and summer.
- VETCS 596 Opportunities in Veterinary Medicine Fall, spring, and summer.
- VETCS 598 Dermatology Service Fall, spring, and summer.
- VETCS 600 Journal Reading I Fall and spring.
- VETCS 601 Dentistry Fall and spring.
- VETCS 603 Reproductive Examination of the Mare Fall.
- VETCS 605 Selected Topics in Wildlife Medicine Spring.
- VETCS 616 Research Opportunities in Veterinary Medicine Fall, spring, January and summer.
- VETCS 664 Introduction to Epidemiology Fall.
- VETCS 665 Study Designs Spring.
- [VETCS 666 Advanced Methods in Epidemiology Fall.]
- VETCS 675 Special Problems in Large Animal Medicine Fall and spring.
- VETCS 676 Special Problems in Large Animal Surgery Fall and spring.
- VETCS 677 Special Problems in Theriogenology Fall and spring.
- VETCS 678 Fundamental Techniques in Bovine Embryo Transfer Spring.
- VETCS 679 Dairy Herd Management and Health Fall.
- VETCS 680 Poisonous Plants Fall.
- VETCS 681 Horse Health Management Spring.
- VETCS 683 Elementary Biostatistics Spring.
- VETCS 684 Horse Lameness Spring.
- VETCS 686 Goats: Management and Diseases Spring.

- VETCS 688 Special Problems in Small Animal Medicine Fall and spring.
- VETCS 689 Special Problems in Small Animal Surgery Fall and spring.
- VETCS 690 Veterinary Dermatology Spring.
- VETCS 691 Advanced Large Animal Internal Medicine Spring.
- [VETCS 694 Avian and Reptile Medicine and Surgery Spring.]
- VETCS 695 Advanced Equine Surgical Techniques Spring.
- VETCS 696 Basic and Therapeutic Horseshoeing Spring.
- VETCS 697 Advanced Techniques in Food Animal Surgery Spring.
- VETCS 698 Senior Seminar Selective Fall and spring.
- VETCS 699 Llama Tutorial Fall and spring.
- [VETCS 700 Pathophysiology of Gastrointestinal Surgery Fall.]
- [VETCS 701 Pathophysiology of Orthopedic Surgery January.]
- [VETCS 702 Pathophysiology of Cardiopulmonary Surgery Fall.]
- [VETCS 703 Surgical Principles and Surgery of the Integumentary System Spring.]
- VETCS 704 Pathophysiology of Urogenital Surgery Fall.
- VETCS 705 Animal Pain and Its Control Spring.
- VETCS 706 Pathophysiology of Neurologic Surgery Spring.
- VETCS 707 Clinical Biostatistics Spring.
- VETCS 708 Epidemiology Seminar Series Fall and spring.
- VETCS 766 Graduate Research Fall, spring, and summer.
- VETCS 768 Master's-Level Thesis Research Fall and spring.
- VETCS 769 Doctoral-Level Thesis Research Fall and spring.
- VETCS 799 Independent Studies in Epidemiology Fall and spring.

## DIAGNOSTIC LABORATORY

- VETDL 531 Regulatory Medicine Spring.
- VETDL 611 Mastitis January.
- VETDL 700 Special Projects in Diagnostic Endocrinology Fall and spring.
- VETDL 701 Special Projects in Infectious Diseases Fall and spring.
- VETDL 702 Special Topics in Infectious Diseases Fall and spring.
- VETDL 703 Doctoral-Level Thesis Research Fall and spring.
- VETDL 704 Master's-Level Thesis Research Fall and spring.

## MICROBIOLOGY, IMMUNOLOGY, AND PARASITOLOGY

- VETMI 315 Basic Immunology Lectures (also Biological Sciences 305) Fall.
- [VETMI 318 Pathogenic Bacteriology and Mycology (also Biological Sciences 304) Spring.]
- [VETMI 331 Medical Parasitology Fall.]
- VETMI 408 Viruses and Diseases (replaces VETMI 417) Spring.
- VETMI 605 Special Projects in Microbiology Fall and spring.
- VETMI 606 Small Animal Infectious Diseases

Spring.

- VETMI 607 Virus Diseases of Cattle Fall.
- VETMI 615 Research Opportunities in Veterinary Medicine Fall, January, spring, and summer.
- VETMI 651 Clinical Parasitology of Avian Species Spring.
- VETMI 700 The Biology of Animal Viruses and Viral Pathogenesis Fall.
- VETMI 701 Models of Viral Pathogenesis Fall.
- VETMI 702 Molecular Biology and Immunology of Host-Parasite Interactions Fall.
- [VETMI 705 Advanced Immunology Lectures (also Biological Sciences 705) Spring.]
- VETMI 706 Immunology Seminar Series Fall and spring.
- VETMI 707 Advanced Work in Bacteriology, Virology, and Immunology Fall and spring.
- VETMI 708 Selected Topics in Animal Virology Spring.
- VETMI 709 Laboratory Methods of Diagnosis Fall and spring.
- VETMI 710 Microbiology Seminars Fall and spring.
- VETMI 711 Independent Study: Joint Physiology Fall.
- VETMI 719 Immunology of Infectious Diseases and Tumors (also Biological Sciences 706) Spring.
- [VETMI 720 Special Topics in Immunology: Macrophage Function and Regulation Spring.]
- VETMI 721 Special Topics in Immunology: Neuroendocrine-Immune Interactions Spring.
- VETMI 722 Special Topics in Immunity: Nutrition and Immunity Spring.
- VETMI 737 Advanced Work in Animal Parasitology Fall and spring.
- VETMI 783 Seminars in Parasitology Fall and spring.

## PATHOLOGY

- VETPA 539 Introduction to Laboratory Animal Medicine Spring.
- VETPA 540 Pathology Service Fall, spring, and summer.
- VETPA 549 Laboratory Animal Clinical Rotation Fall and spring.
- VETPA 636 Wildlife Pathology Fall.
- VETPA 637 Postmortem Pathology Fall and spring.
- VETPA 638 The Bottom Line Fall and spring.
- VETPA 640 Principles of Toxicological Pathology Fall.
- VETPA 641 Clinical Immunology Fall.
- VETPA 713 Cell Cycle and Cancer Biology Spring.
- VETPA 736 Pathology of Nutritional Diseases Spring.
- VETPA 750 Cancer Cell Biology Spring.
- VETPA 788 Seminar in Surgical Pathology Fall and spring.
- VETPA 789 Seminar in Necropsy Pathology Fall and spring.

## PHARMACOLOGY

- VETPR 607 Introduction to Pharmacology Fall.
- VETPR 608 Basic Pharmacology Fall.
- VETPR 619 Clinical Pharmacology Fall.
- VETPR 620 Advanced Clinical Pharmacology Spring.

- VETPR 621 Toxicology (also Toxicology 621) Spring.
- VETPR 622 Special Projects in Pharmacology Fall, spring, and summer.
- VETPR 629 Research Opportunities in Veterinary Medicine Fall, January, spring, and summer.
- VETPR 660 Safety Evaluations in Public Health (also Toxicology 660) Spring.
- VETPR 700 Calcium as a Second Messenger in Cell Activation Spring.
- VETPR 701 Organ System Toxicology (also Toxicology 611)
- VETPR 703 Receptor Binding: Theory and Techniques (also Biological Sciences 790, Sec. 02) Spring.
- VETPR 704 CNS Neuropharmacology: Mechanisms of Synaptic Transmission Fall.
- VETPR 705 Molecular Mechanisms of Receptor-G Protein Coupled Signaling Spring.
- VETPR 706 Growth Factor-Coupled Signaling (also Biological Sciences 734)

### Special Projects and Research in Pharmacology

- VETPR 711 The Role of Calcium in Stimulus-Secretion Coupling Fall, spring, and summer.
- VETPR 712 Eosinophil Stimulus-Response Coupling Fall, spring, and summer.
- VETPR 713 Mechanisms of Growth-Factor Action Fall, spring, and summer.
- VETPR 714 Central Nervous System Neurotransmitters Fall, spring, and summer.
- VETPR 718 Structure-Function of the Nicotinic Acetylcholine Receptor Fall, spring, and summer.
- VETPR 720 Modulation of Nicotinic Acetylcholine Receptor Function Fall, spring, and summer.
- [VETPR 723 The Role of Calcium in the Control of Electrolyte Transport Fall, spring, and summer.]
- [VETPR 724 The Control of Hormone Secretion Fall, spring, and summer.]
- VETPR 730 Graduate Research in Pharmacology Fall, spring, and summer.

### Special Topics in Pharmacology

- VETPR 741 Neuromodulation Fall, spring, and summer.
- VETPR 742 Receptor Mechanisms Fall, spring, and summer.
- VETPR 745 Biochemical Neuropharmacology Fall, spring, and summer
- VETPR 747 Amino Acid Neurotransmitters Fall, spring, and summer.
- VETPR 748 Stimulus-Secretion Coupling Fall, spring, and summer.
- VETPR 749 Second Messengers in Cell Activation Fall, spring, and summer.
- VETPR 750 Cell Calcium Fall, spring, and summer.
- [VETPR 755 Calcium in the Control of Hormone Secretion Fall, spring, and summer.]
- [VETPR 756 Mechanisms of Calcium Handling Fall, spring, and summer.]
- [VETPR 757 Intestinal Electrolyte Transport Fall, spring, and summer.]
- VETPR 760 Advanced Topics In Pharmacology Fall, spring, and summer.

### PHYSIOLOGY

- [Biological Basis of Sex Differences (Biological Sciences 214) Fall.]
- Histology: The Biology of the Tissues (Biological Sciences 313) Fall.

- Cellular Physiology (Biological Sciences 316) Spring.
- VETPH 346 Introductory Animal Physiology (also Biological Sciences 311) Fall.
- Mammalian Physiology (Biological Sciences 458) Spring.
- Undergraduate Research in Biology (Biological Sciences 499) Fall and spring.
- VETPH 612 Research Opportunities in Veterinary Medicine Fall, January, spring, and summer.
- Lipids (Biological Sciences 619 and Nutritional Sciences 602) Fall.
- VETPH 625 Problems in Dog and Cat Behavior Spring.
- VETPH 626 Problems in Equine Behavior Spring.
- VETPH 627 Acid-Base Relations (also Biological Sciences 715) Fall, spring, and summer.
- VETPH 628 Graduate Research in Animal Physiology (also Biological Sciences 719) Fall and spring.
- [Plasma Lipoproteins (Biological Sciences 712) Spring.]
- Stress Physiology (Biological Sciences 711) Fall.
- [Cardiac Electrophysiology (Biological Sciences 713) Fall.]
- [Physiology of Pregnancy (Biological Sciences 714) Spring.]
- [Regulation of Mitosis and the Cell Cycle (Biological Sciences 716) Spring.]
- Structure and Function of Joints with Emphasis on Arthritis (Biological Sciences 717) Fall.
- [Evolution of Color (Biological Sciences 718) Spring.]
- VETPH 720 Special Problems in Physiology Fall and spring.
- [VETPH 752 Biological Membranes and Nutrient Transfer (also Biological Sciences 618) Spring.]
- VETPH 758 Molecular Mechanisms of Hormone Action (also Biological Sciences 658) Spring.
- VETPH 759 Nutrition and Physiology of Mineral Elements (also Biological Sciences 615 and 659) Spring.
- Fundamentals of Endocrinology, Lecture (Animal Science 427) Fall.
- Fundamentals of Endocrinology, Laboratory (Animal Science 428) Fall.
- VETPH 811-812 Advanced Physiological Methods I and II (Biological Sciences 811, 812) 811, Fall; 812, spring.

### FACULTY ROSTER

- Aquirre, Gustavo D., Ph.D., U. of Pennsylvania. Alfred H. Caspary Professor, Clinical Sciences
- Ainsworth, Dorothy M., Ph.D., U. of Wisconsin-Madison. Asst. Prof., Clinical Sciences
- Antczak, Douglas F., Ph.D., U. of Cambridge (England). Dorothy Havemeyer McConville Professor of Equine Medicine, Microbiology, Immunology, and Parasitology
- Appel, Max J., Ph.D., Cornell U. Prof., Microbiology, Immunology, and Parasitology
- Appleton, Judith A., Ph.D., U. of Georgia. Assoc. Prof., Microbiology, Immunology, and Parasitology
- Avery, Roger J., Ph.D., U. of Newcastle-upon-Tyne (England). Prof., Microbiology, Immunology, and Parasitology
- Babish, John G., Ph.D., Cornell U. Assoc. Prof., Pharmacology
- Baines, Joel, Ph.D., Cornell U. Asst. Prof., Clinical Sciences

- Ball, Barry A., Ph.D., Cornell U. Assoc. Prof., Clinical Sciences
- Barr, Stephen C., Ph.D., Louisiana State U. Asst. Prof., Clinical Sciences
- Bell, Robin G., Ph.D., Australian National U. Prof., Microbiology, Immunology, and Parasitology
- Bertram, John E., Ph.D., U. of Chicago. Asst. Prof., Anatomy
- Beyenbach, Klaus W., Ph.D., Washington State U. Prof., Physiology
- Bloom, Stephen E., Ph.D., U. of Pennsylvania. Prof., Avian and Aquatic Animal Medicine
- Blue, Julia T., Ph.D., U. of Pennsylvania. Assoc. Prof., Pathology
- Bowman, Dwight D., Ph.D., Tulane U. Assoc. Prof., Microbiology, Immunology, and Parasitology
- Bowser, Paul R., Ph.D., Auburn U. Assoc. Prof., Avian and Aquatic Animal Medicine
- Calnek, Bruce W., D.V.M., Cornell U.
- Rudolph J. and Katharine L. Steffen Professor, Avian and Aquatic Animal Medicine
- Campbell, S. Gordon, Ph.D., Cornell U. Prof., Microbiology, Immunology, and Parasitology
- Carmichael, Leland E., Ph.D., Cornell U. John M. Olin Professor of Virology; Clinical Sciences
- Casey, James W., Ph.D., U. of Chicago. Assoc. Prof., Microbiology, Immunology, and Parasitology
- Center, Sharon A., D.V.M., U. of California at Davis. Assoc. Prof., Clinical Sciences
- Cerione, Richard A., Ph.D., Rutgers U. Prof., Pharmacology
- Chang, Yung Fu, Ph.D., Texas A&M. Asst. Prof., Diagnostic Laboratory
- Cooper, Barry J., Ph.D., U. of Sydney (Australia). Prof., Pathology
- Corradino, Robert A., Ph.D., Cornell U. Assoc. Prof., Physiology/(Section of Physiology)
- Cummings, John F., Ph.D., Cornell U. Prof., Anatomy
- Daels, Peter F., Ph.D., U. of California at Davis. Asst. Prof., Clinical Sciences
- deLahunta, Alexander, Ph.D., Cornell U. James Law Professor of Veterinary Anatomy
- Dietert, Rodney R., Ph.D., U. of Texas at Austin. Prof., Microbiology, Immunology, and Parasitology.
- Divers, Thomas J., D.V.M., U. of Georgia. Assoc. Prof., Clinical Sciences
- Dobson, Alan, Ph.D., U. of Aberdeen (Scotland). Prof., Physiology/(Section of Physiology)
- Dubovi, Edward J., Ph.D. U. of Pittsburgh. Assoc. Prof., Diagnostic Laboratory
- Ducharme, Normand G., D.V.M., U. of Montreal (Canada). Assoc. Prof., Clinical Sciences
- Dykes, Nathan L., D.V.M., Cornell U. Asst. Prof., Clinical Sciences
- Erb, Hollis N., Ph.D., U. of Guelph (Canada). Prof., Clinical Sciences
- Famum, Cornelia, Ph.D., U. of Wisconsin-Madison. Assoc. Prof., Anatomy
- Farrow, Brian R. H., Ph.D., U. of Sydney (Australia). Prof., Clinical Sciences
- Fewtrell, Clare, D.Phil., U. of Oxford (England). Assoc. Prof., Pharmacology
- Fortune, Joanne E., Ph.D., Cornell U. Prof., Physiology
- Fox, Francis H., D.V.M., Cornell U. Prof. Emeritus, Clinical Sciences
- French, Tracy W., D.V.M., Purdue U. Assoc. Prof., Pathology

- Fubini, Susan L., D.V.M., U. of Georgia.  
Assoc. Prof., Clinical Sciences
- Gilbert, Robert O., B.V.Sc., U. of Pretoria  
(South Africa). Assoc. Prof., Clinical  
Sciences
- Gilmour, Robert F., Jr., Ph.D., SUNY—Upstate  
Medical Center. Assoc. Prof., Physiology
- Gleed, Robin D., D.V.Sc., U. of Liverpool  
(England). Assoc. Prof., Clinical Sciences
- Grohn, Yrjo T., Ph.D., College of Veterinary  
Medicine, Helsinki (Finland). Assoc. Prof.,  
Clinical Sciences
- Guan, Jun-Lin, Ph.D., U. of California at San  
Diego. Asst. Prof., Pathology
- Guard, Charles L. III, Ph.D., Case Western  
Reserve U. Assoc. Prof., Clinical Sciences
- Hackett, Richard P., Jr., D.V.M., Ohio State U.  
Assoc. Prof., Clinical Sciences
- Harvey, H. Jay, D.V.M., Kansas State U.  
Assoc. Prof., Clinical Sciences
- Henion, John D., Ph.D., SUNY at Albany.  
Prof., Diagnostic Laboratory
- Hermanson, John W., Ph.D., U. of Florida.  
Assoc. Prof., Anatomy
- Hornbuckle, William E., D.V.M., Oklahoma  
State U. Assoc. Prof., Clinical Sciences
- Houpt, Katherine A., Ph.D., U. of Pennsylva-  
nia. Prof., Physiology/(Section of Physi-  
ology)
- Houpt, T. Richard, Ph.D., U. of Tennessee.  
Prof., Physiology/(Section of Physiology)
- Jacobson, Richard H., Ph.D., Montana State U.  
Assoc. Prof., Diagnostic Laboratory
- Kallfelz, Francis A., Ph.D., Cornell U. Prof.,  
Clinical Sciences
- Kern, Thomas J., D.V.M., U. of Missouri.  
Assoc. Prof., Clinical Sciences
- King, John M., Ph.D., Cornell U. Prof.,  
Pathology
- Kollias, George V., Ph.D., U. of California at  
Davis. Prof., Clinical Sciences
- Krook, Lennart P., Ph.D., Royal Veterinary  
College at Stockholm (Sweden). Prof.,  
Pathology
- Lein, Donald H., Ph.D., U. of Connecticut.  
Assoc. Prof., Diagnostic Laboratory
- Levine, Roy A., Ph.D., Indiana U. Asst. Prof.,  
Pathology
- Lewis, Robert M., D.V.M., Washington State U.  
Prof., Pathology
- Loew, Ellis R., Ph.D., U. of California at Los  
Angeles. Assoc. Prof., Physiology
- Ludders, John W., D.V.M., Washington State  
U. Assoc. Prof., Clinical Sciences
- Lust, George, Ph.D., Cornell U. Prof.,  
Microbiology, Immunology, and Parasitol-  
ogy
- Macleod, James N., V.M.D., Ph.D., U. of  
Pennsylvania. Asst. Prof., Physiology
- Marsh, James A., Ph.D., Northwestern U.  
Prof., Microbiology, Immunology, and  
Parasitology
- Maylin, George A., Ph.D., Cornell U. Assoc.  
Prof., Diagnostic Laboratory
- McDonough, Patrick, Ph.D., Cornell U. Asst.  
Prof., Diagnostic Laboratory
- McGregor, Douglas D., D.Phil., U. of Oxford  
(England). Prof., Microbiology,  
Immunology, and Parasitology
- Mechor, Gerald D., D.V.M., U. of  
Saskatchewan (Canada). Asst. Prof.,  
Clinical Sciences
- Meyers-Wallen, Vicki N., Ph.D., U. of  
Pennsylvania. Assoc. Prof., Anatomy
- Miller, William H., Jr., V.M.D., U. of Pennsyl-  
vania. Assoc. Prof., Clinical Sciences
- Minor, Ronald R., Ph.D., U. of Pennsylvania.  
Prof., Pathology
- Mohammed, Hussni, O., Ph.D., U. of  
California at Davis. Assoc. Prof., Clinical  
Sciences
- Moise, N. Sydney, D.V.M., Cornell U. Assoc.  
Prof., Clinical Sciences
- Moon, Paula, D.V.M., Ohio U. Asst. Prof.,  
Clinical Sciences
- Myers, Dean, Ph.D., U. of Wyoming. Asst.  
Prof., Physiology
- Naqi, Syed A., Ph.D., Texas A & M U. Prof.,  
Avian and Aquatic Animal Medicine
- Nathanielsz, Peter W., M.D., U. of Cambridge  
(England). Prof., Physiology
- Nixon, Alan J., B.V.Sc., U. of Sydney (Austra-  
lia). Assoc. Prof., Clinical Sciences
- Noden, Drew M., Ph.D., Washington U. Prof.,  
Anatomy
- Norcross, Neil L., Ph.D., U. of Massachusetts.  
Prof., Clinical Sciences
- Noronha, Fernando M., D.V.M., U. of Lisbon  
(Portugal). Prof., Microbiology, Immunol-  
ogy, and Parasitology
- Nowak, Linda M., Ph.D., U. of Michigan.  
Assoc. Prof., Pharmacology
- Oswald, Robert E., Ph.D., Vanderbilt U. Prof.,  
Pharmacology
- Parrish, Colin R., Ph.D., Cornell U. Assoc.  
Prof., Microbiology, Immunology, and  
Parasitology
- Pauli, Bendicht U., Ph.D., U. of Bern  
(Switzerland). Prof., Pathology
- Pearce, Edward, J., Ph.D., National Institute for  
Medical Research (England). Asst. Prof.,  
Microbiology, Immunology, and Parasitol-  
ogy
- Phemister, Robert D., Ph.D., Colorado State U.  
Prof., Pathology
- Quaroni, Andrea, Ph.D., U. of Pavia (Italy).  
Assoc. Prof., Physiology
- Quimby, Fred W., Ph.D., U. of Pennsylvania.  
Prof., Pathology
- Randolph, John F., D.V.M., Cornell U. Assoc.  
Prof., Clinical Sciences
- Ray, Jharna, Ph.D., U. of Calcutta (India).  
Asst. Prof.
- Rebhun, William C., D.V.M., Cornell U. Prof.,  
Clinical Sciences
- Reimers, Thomas J., Ph.D., U. of Illinois.  
Assoc. Prof., Diagnostic Laboratory
- Rendano, Victor T., V.M.D., U. of Pennsylva-  
nia. Assoc. Prof., Clinical Sciences
- Reynolds, Arleigh J., Ph.D., Cornell U. Asst.  
Prof., Clinical Sciences
- Riis, Ronald C., D.V.M., U. of Minnesota.  
Assoc. Prof., Clinical Sciences
- Robertshaw, David, Ph.D., Glasgow U.  
(England). Prof., Physiology
- Rowland, Peter, H., D.V.M., Tufts U. Asst.  
Prof., Pathology
- Scarlett, Janet M., Ph.D., U. of Minnesota.  
Assoc. Prof., Clinical Sciences
- Schat, Karel A., Ph.D., Cornell U. Prof., Avian  
and Aquatic Animal Medicine
- Schlafer, Donald H., Ph.D., U. of Georgia.  
Assoc. Prof., Pathology
- Schwark, Wayne S., Ph.D., U. of Ottawa  
(Canada). Prof., Pharmacology
- Scott, Danny W., D.V.M., U. of California at  
Davis. Prof., Clinical Sciences
- Scott, Fredric W., Ph.D., Cornell U. Prof.,  
Microbiology, Immunology, and Parasitol-  
ogy
- Sears, Philip M., Ph.D., Ohio State U. Assoc.  
Prof., Diagnostic Laboratory
- Sharp, Geoffrey W. G., D.Sc., U. of London  
(England). Prof., Pharmacology
- Shin, Sang J., D.V.M., Seoul National U.  
(Korea). Assoc. Prof., Diagnostic Labora-  
tory
- Short, Charles E., Ph.D., U. of Turku (Finland)  
Prof., Clinical Sciences
- Silver, Robert B., Ph.D., U. of California at  
Berkeley. Assoc. Prof., Physiology
- Sirois, Jean, Ph.D., Cornell U. Asst. Prof.,  
Physiology
- Smith, Donald F., D.V.M., U. of Guelph  
(Canada). Prof., Clinical Sciences
- Smith, Mary C., D.V.M., Cornell U. Assoc.  
Prof., Clinical Sciences
- Spitsbergen, Jan M., Ph.D., Cornell U. Asst.  
Prof., Avian and Aquatic Animal Medicine
- Summers, Brian A., Ph.D., Cornell U. Assoc.  
Prof., Pathology
- Tapper, Daniel N., Ph.D., Cornell U. Prof.,  
Physiology/(Section of Physiology)
- Tennant, Bud C., D.V.M., U. of California at  
Davis. James Law Professor of Comparative  
Medicine, Clinical Sciences
- Todhunter, Rory J., Ph.D., Cornell U. Asst.  
Prof., Clinical Sciences
- Trotter, Eric J., D.V.M., U. of Illinois. Assoc.  
Prof., Clinical Sciences
- Wasserman, Robert H., Ph.D., Cornell U.  
James Law Professor of Physiology,  
Physiology/(Section of Physiology)
- Weiland, Gregory A., Ph.D., U. of California at  
San Diego. Assoc. Prof., Pharmacology
- White, Maurice E., D.V.M., Cornell U. Prof.,  
Clinical Sciences
- Winter, Alexander J., Ph.D., U. of Wisconsin-  
Madison. James Law Professor of Veteri-  
nary Microbiology; Microbiology, Immunol-  
ogy, and Parasitology
- Wootton, John F., Ph.D., Cornell U. Prof.,  
Physiology
- Yen, Andrew, Ph.D., Cornell U. Prof.,  
Pathology

