

### Teaching, Research and Extension Faculty

**Thomas E. Adams** - Professor, [teadams@ucdavis.edu](mailto:teadams@ucdavis.edu), (530) 752-1266

**Research:** Biochemical endocrinology; hormone receptor dynamics; endocrine control of reproduction; stress; environmental estrogens; immunocastration.

**Graduate Groups:** Animal Biology; Molecular, Cellular and Integrative Physiology

**Trish Berger** - Professor, [tberger@ucdavis.edu](mailto:tberger@ucdavis.edu), (530) 752-1267

**Research:** Fertilization and fertility; gamete membrane interaction at the molecular level, including species comparisons; species variation and the effect of toxicants.

**Graduate Groups:** Animal Biology; Molecular, Cellular and Integrative Physiology; Cell and Developmental Biology

**Steven L. Berry** - Extension Specialist: Dairy Management and Health, [sberry@ucdavis.edu](mailto:sberry@ucdavis.edu), (530) 752-1279

**Research:** Dairy management and health; hoof health and lameness in dairy cattle; infectious and non-infectious diseases; management factors; cow comfort and welfare, relationship of lameness causing diseases to animal welfare, productivity, and culling.

**Graduate Groups:** Animal Biology

**Francine A. Bradley** - Extension Poultry Specialist: Poultry, (530) 752-6316

**Research:** Improving the productivity of California's poultry and game birds through better management and biosecurity. Direct statewide programs in biosecurity and disease surveillance programs for fairs and expositions and small holders of poultry, plus 4-H Poultry.

**Graduate Groups:** Avian Sciences

**C. Christopher Calvert** - Professor, [cccalvert@ucdavis.edu](mailto:cccalvert@ucdavis.edu), (530) 752-2991

**Research:** Protein and energy metabolism in mammalian and avian species; protein synthesis and turnover – measurement and controls, nutritional control of reproduction in ruminants; systems analysis of animal metabolism and function.

**Graduate Groups:** Molecular, Cellular and Integrative Physiology; Nutritional Biology; Animal Biology; Avian Sciences

**Ernest S. Chang** - Professor (Bodega Marine Lab), [eschang@ucdavis.edu](mailto:eschang@ucdavis.edu), (707) 875-2061

**Research:** Comparative biochemistry and physiology of marine invertebrates; especially the hormonal control of molting and limb formation in decapod crustaceans

**Graduate Groups:** Animal Behavior; Animal Biology; Ecology; Molecular, Cellular and Integrative Physiology

**Fred S. Conte** - Extension Specialist: Aquaculture; Lecturer, [fsconte@ucdavis.edu](mailto:fsconte@ucdavis.edu), (530) 752-7689

**Research:** Shellfish sanitation and computer simulation software, finfish and shellfish production systems.

**Extension Programs:** Computer decision support software; marine and freshwater aquaculture production and public policy, aquatic animal welfare.

**Mary E. Delany** – Professor and Chair, [medelany@ucdavis.edu](mailto:medelany@ucdavis.edu), (530) 752-1252

**Research:** Poultry and avian genetics, cytogenetics, developmental genetics, genomics; vertebrate telomere biology; role of the telomere/telomerase pathway in oncogenic disease.

**Graduate Groups:** Animal Biology; Avian Sciences; Genetics

**Edward J. DePeters** - Professor, [ejdepeters@ucdavis.edu](mailto:ejdepeters@ucdavis.edu), (530) 752-1263

**Research:** Ruminant nutrition of dairy cattle; mammary gland synthesis of milk protein and fat; nutrient digestion, absorption, and metabolism; evaluation of by-product feedstuffs and forage quality.

**Graduate Groups:** Animal Biology; Nutritional Biology

**Serge I. Doroshov** - Professor, [sidoroshov@ucdavis.edu](mailto:sidoroshov@ucdavis.edu), (530) 752-7603

**Research:** Developmental biology and hatchery technology of cultured fish; environmental physiology of early life stages; sturgeon aquaculture.

**Graduate Groups:** Animal Biology; Ecology; International Agricultural Development

**John M. Eadie** - Professor, [jmeadie@ucdavis.edu](mailto:jmeadie@ucdavis.edu), (530) 754-9204

**Research:** Waterfowl; avian behavior and ecology; population genetics; wetland and riparian ecology; molecular ecology.

**Graduate Groups:** Avian Sciences; Animal Behavior; Ecology; Population Biology

**James G. Fadel** - Professor, [jgfadel@ucdavis.edu](mailto:jgfadel@ucdavis.edu), (530) 752-1259

**Research:** Mathematical and statistical applications in nutrition, waste streams, and management systems; food and feed evaluation especially the effects of processing on carbohydrate digestibility; and the effects of compositional variability and nutrient utilization. Modeling, in vitro, and in vivo techniques are used to reach research goals.

**Graduate Groups:** Animal Biology; International Agricultural Development; Nutritional Biology

**Thomas R. Famula** - Professor, [trfamula@ucdavis.edu](mailto:trfamula@ucdavis.edu), (530) 752-7018

**Research:** Quantitative genetic theory and statistics; genetic control of animal growth and lactation; inheritance of disease in the dog.

**Graduate Groups:** Animal Biology; Genetics

**Jerry L. Hedrick** - Research Professor of Biochemistry, [jhedrick@ucdavis.edu](mailto:jhedrick@ucdavis.edu), (530) 752-3192

**Research:** Molecular and cellular biology of fertilization, glycobiology of the egg extracellular matrix, structural biology of glycoproteins, lectins, and proteases.

**Graduate Groups:** Biochemistry and Molecular Biology; Biophysics; Cell and Developmental Biology

**Russ Hovey** - Associate Professor, [rchovey@ucdavis.edu](mailto:rchovey@ucdavis.edu), (530) 752-1682

**Research:** Hormonal regulation of mammary gland growth and lactation, and breast cancer with specific interests in ovarian and pituitary hormone functions; role of stromal environment in cell function; across-species differences in mammary gland biology and hormone function.

**Graduate Groups:** Animal Biology; Genetics

**Silas S.O. Hung** - Professor, [sshung@ucdavis.edu](mailto:sshung@ucdavis.edu), (530) 752-3580

**Research:** Fish nutrition, feeding, toxicology, biochemistry, and physiology.

**Graduate Groups:** Animal Biology; Ecology; International Agricultural Development; Nutritional Biology; Pharmacology and Toxicology

**Annie J. King** - Professor, [ajking@ucdavis.edu](mailto:ajking@ucdavis.edu), (530) 752-3530

**Research:** Prevention of lipid oxidation in poultry muscle, eggs and their products; methodologies for determination of cholesterol and its oxidized derivatives in poultry muscle and eggs.

**Graduate Groups:** Agricultural and Food Chemistry; Avian Sciences; Food Science

**Kirk C. Klasing** - Professor, [kcklasing@ucdavis.edu](mailto:kcklasing@ucdavis.edu), (530) 752-1901

**Research:** Impact of nutrition on immunobiology and disease resistance; immunologic basis of stress; nutrition and metabolic adaptation required by carnivorous, granivorous, and nectivorous birds.

**Graduate Groups:** Animal Biology; Avian Sciences; Nutritional Biology; Immunology

**Dietmar Kueltz** - Associate Professor, [dkueltz@ucdavis.edu](mailto:dkueltz@ucdavis.edu), (530) 752-2991

**Research:** Proteomics and physiological genomics of environmental stress adaptation in fishes and aquatic invertebrates; evolution of environmental stress tolerance; effects of climate change, agriculture, and pollution on stress responses of endangered aquatic animals; cellular osmosensory stress signaling.

**Graduate Groups:** Animal Biology; Genetics; Ecology; Molecular, Cellular and Integrative Physiology

**Elizabeth Maga** - Associate Research Biologist, [eamaga@ucdavis.edu](mailto:eamaga@ucdavis.edu), (530) 752-5930

**Research:** Transgenic animals; targeted transgene insertion; efficiency of producing transgenic animals; modifying milk; molecular biology.

**Graduate Groups:** Animal Biology

**Bernie May** - Adjunct Professor; Director, Genomic Variation Laboratory, [bpmay@ucdavis.edu](mailto:bpmay@ucdavis.edu), (530) 754-8123

**Research:** Conservation biology; population genetics of natural populations, threatened and endangered species; genetic mapping of quantitative trait loci; genomic manipulation of commercially important aquatic species; effect of environmental stressors on natural gene pools.

**Graduate Groups:** Ecology; Genetics

**Juan F. Medrano** - Professor, [jfmedrano@ucdavis.edu](mailto:jfmedrano@ucdavis.edu), (530) 752-6786

**Research:** Animal genetics/genomics. Genetics modification of milk composition using genomic tool and fine mapping of quantitative trait genes affecting growth and obesity in mouse models.

**Graduate Groups:** Animal Biology; Genetics

**Joy A. Mench** - Professor, [jamench@ucdavis.edu](mailto:jamench@ucdavis.edu), (530) 752-7125

**Research:** Animal behavior and welfare; abnormal behavior in captive animals; environmental enrichment for poultry and small laboratory animals.

**Graduate Groups:** Animal Biology; Animal Behavior; Avian Sciences

**Deanne Meyer** - Extension Specialist: Livestock Waste Management; Lecturer, [dmeyer@ucdavis.edu](mailto:dmeyer@ucdavis.edu), (530) 752-9391

**Research:** Animal waste management.

**Graduate Groups:** Animal Biology

**James R. Millam** - Professor, [jmillam@ucdavis.edu](mailto:jmillam@ucdavis.edu), (530) 752-1149

**Research:** Physiology and neurochemical anatomy of the cGnRH I/II neuronal systems and related neuropeptide systems; biology, reproductive management, and welfare of captive parrots; sexual differentiation of the song control system in zebra finches; avian neuroendocrinology; avian environmental toxicology.

**Graduate Groups:** Animal Biology; Animal Behavior; Avian Sciences; Molecular, Cellular and Integrative Physiology

**Frank M. Mitloehner** - Associate Professor & Air Quality Specialist, [fmmitloehner@ucdavis.edu](mailto:fmmitloehner@ucdavis.edu), (530) 752-3936

**Research:** Air quality research related to livestock production, especially quantification and mitigation of air pollutants in dairies, beef feedlots, and poultry operations; environmental physiology research, focusing on effects of air emissions on animal and human health and welfare.

**Graduate Groups:** Animal Biology; Animal Behavior

**Kenji Murata** - Assistant Research Biochemist, [kmurata@ucdavis.edu](mailto:kmurata@ucdavis.edu), (530) 752-6789

**Research:** The molecular mechanisms of fertilization, particularly, sperm-egg interaction using fish system as the model animal; the molecular mechanisms of cardiovascular system development; the antioxidant effect of the polyphenol obtained from the plant seeds on the animal embryonic development, growth, nutrition, health and reproduction.

**James D. Murray** - Professor, [jdmurray@ucdavis.edu](mailto:jdmurray@ucdavis.edu), (530) 752-3179

**Research:** Genetic engineering of animals for use in agriculture, improving the technologies associated with cloning and the production of transgenic animals, modification of anti-microbial, functional and lipid characteristics of milk, equine genomics.

**Graduate Groups:** Animal Biology; Genetics

**Anita M. Oberbauer** - Professor, [amoberbauer@ucdavis.edu](mailto:amoberbauer@ucdavis.edu), (530) 752-4997

**Research:** Cell and molecular biology; animal growth, and development of genetic markers for canine diseases.

**Graduate Groups:** Animal Biology; Genetics; Molecular, Cellular and Integrative Physiology

**James W. Oltjen** - Extension Specialist: Animal Management Systems; Lecturer, [jwoltjen@ucdavis.edu](mailto:jwoltjen@ucdavis.edu), (530) 752-5650

**Research:** Animal management systems; resource use in animal agriculture; beef cattle growth.

**Graduate Groups:** Animal Biology; Nutritional Biology

**Extension Programs:** Computer decision support software; beef quality assurance; standardized performance analysis for cattle and sheep ranches.

**Kathryn Radke** - Professor, [kradke@ucdavis.edu](mailto:kradke@ucdavis.edu), (530) 754-9025

**Research:** cancer-causing retroviruses of domestic animals: bovine leukemia virus; transmission of bovine leukemia virus in colostrum; virus-immune system interactions, viral gene expression and pathogenesis.

**Graduate Groups:** Animal Biology; Biochemistry & Molecular Biology; Genetics; Microbiology

**Peter H. Robinson** - Extension Specialist: Dairy Nutrition and Management, [phrobinson@ucdavis.edu](mailto:phrobinson@ucdavis.edu), (530) 754-7565  
**Research:** On-farm animal management systems; on-farm implementation of strategies to reduce the environmental impact of cows.  
**Graduate Groups:** Animal Biology

**Janet F. Roser** - Professor, [jfroser@ucdavis.edu](mailto:jfroser@ucdavis.edu), (530) 752-2918  
**Research:** Equine reproductive physiology and endocrinology.  
**Graduate Groups:** Animal Biology; Comparative Pathology; Molecular, Cellular and Integrative Physiology

**Roberto D. Sainz** - Professor, [rdainz@ucdavis.edu](mailto:rdainz@ucdavis.edu), (530) 752-0526  
**Research:** Beef cattle nutrition, growth, body composition; genetic and nutritional determinants of energy metabolism; international (tropical) animal agriculture; mathematical modeling of animal function and production systems; silvopasture  
**Graduate Groups:** Animal Biology; International Agricultural Development; Nutritional Biology

**Cassandra B. Tucker** - Assistant Professor, [cbtucker@ucdavis.edu](mailto:cbtucker@ucdavis.edu), (530) 754-5750  
**Research:** Animal welfare, animal behavior, effects of housing design and environmental conditions on dairy cattle  
**Graduate Groups:** Animal Biology; Animal Behavior

**Alison Van Eenennaam** - Associate Extension Specialist: Animal Biotechnology and Genomics, [alvaneennaam@ucdavis.edu](mailto:alvaneennaam@ucdavis.edu), (530) 752-7942  
**Research:** Use of biotechnologies in animal agriculture, marker-assisted selection in cattle, cloned and transgenic animals, modification of milk lipids, containment of transgenic fish.  
**Graduate Groups:** Animal Biology; Genetics

**Dana Van Liew** - Lecturer, Coach-Livestock Judging Team, [dbvanliew@ucdavis.edu](mailto:dbvanliew@ucdavis.edu), (530) 752-9703  
**Research:** Livestock judging; management; outreach.

**Barry Wilson** - Professor, [bwwilson@ucdavis.edu](mailto:bwwilson@ucdavis.edu), (530) 752-3519  
**Research:** Cell and developmental biology, pesticides, neuron- and muscle toxicology, avian biology, ecotoxicology.  
**Graduate Groups:** Animal Biology; Pharmacology/Toxicology; Molecular, Cellular and Integrative Physiology

**Gideon Zeidler** – Associate Extension Specialist: Poultry (UC Riverside), [gideon.zeidler@ucr.edu](mailto:gideon.zeidler@ucr.edu), (951) 827-5038  
**Research:** Food engineer, refrigeration, food safety, utilization of agricultural waste, processing plant efficiency.  
**Extension Programs:** Hazard analysis critical control point monitoring, improvement and analysis; egg processing, safety and marketing

**Richard A. Zinn** - Professor (Desert Research and Extension Center), [razinn@ucdavis.edu](mailto:razinn@ucdavis.edu), (760) 756-3068  
**Research:** Nutrition, health, and management of feedlot cattle.  
**Graduate Groups:** Animal Biology