



## 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; Sertoli cell proliferation and development.

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

**Steven L. Berry** - Extension Specialist: Dairy Management and Health, [slberry@ucdavis.edu](mailto:slberry@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 (Palm Springs)

**Research:** Improving the productivity of California's poultry 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

**Christopher C. Calvert** - Professor, [cccaltvert@ucdavis.edu](mailto:cccaltvert@ucdavis.edu), (530) 752-1269

**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 Associate Dean in CA&ES, [medelany@ucdavis.edu](mailto:medelany@ucdavis.edu), (530) 754-9343

**Research:** Avian genetics and genome organization including projects in molecular cytogenetics, developmental genetics, vertebrate telomere biology and the 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; Biostatistics

**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:** Genetic engineering of ruminant milk for animal and human health; efficiency of producing transgenic animals; efficiency of gene targeting, role of modulation of intestinal microbiota on health and resistance to infection, relationship between casein genotypes and milk quality.

**Graduate Groups:** Animal Biology, Food Science

**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; Ecology

**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 control of animal growth, particularly bone and the impact on animal function, and investigation of the genetic causes of canine traits, especially disease.

**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) 752-9025

**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, [rdsainz@ucdavis.edu](mailto:rdsainz@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; ecological footprint

**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