

NUTRITIONAL SCIENCES

DEGREES/MAJORS, DOCTORAL MINORS, GRADUATE/PROFESSIONAL CERTIFICATES

- Clinical Nutrition, M.S. (<http://guide.wisc.edu/graduate/nutritional-sciences/clinical-nutrition-ms/>)
- Nutritional Sciences, Doctoral Minor (<http://guide.wisc.edu/graduate/nutritional-sciences/nutritional-sciences-doctoral-minor/>)
- Nutritional Sciences, M.S. (<http://guide.wisc.edu/graduate/nutritional-sciences/nutritional-sciences-ms/>)
- Nutritional Sciences, Ph.D. (<http://guide.wisc.edu/graduate/nutritional-sciences/nutritional-sciences-phd/>)

PEOPLE

FACULTY

MEMBERS OF THE INTERDEPARTMENTAL GRADUATE PROGRAM IN NUTRITIONAL SCIENCES WITHIN THE DEPARTMENT

Eide, Dave (Department Chair), Professor of Nutritional Sciences; Ph.D., 1987. Nutritional genomics and molecular responses to changes in nutrient status

Eisenstein, Richard, Professor of Nutritional Sciences; Ph.D., 1985. Iron metabolism; posttranscriptional control of proteins required for the uptake, storage, and use of iron

Fan, Jing, Assistant Professor of Nutritional Sciences, Ph.D., 2014. Cancer metabolism; metabolic regulation in dynamic mammalian systems

Groblewski, Guy, Professor of Nutritional Sciences; Ph.D., 1991. Intracellular signal transduction and membrane/ protein trafficking in gastrointestinal epithelial cells

Kuchina, Adam, Assistant Professor of Nutritional Sciences; Ph.D., 2017; Muscle and Protein Metabolism; Understanding how disease affects muscle and protein metabolism and muscle assessment techniques

Lai, Huichuan, Professor of Nutritional Sciences; Ph.D., R.D., 1994. Epidemiological studies linking nutrition and disease outcomes in pediatric populations

Ney, Denise, Professor of Nutritional Sciences; Ph.D., 1986. Nutritional management of phenylketonuria and gastrointestinal physiology

Ntambi, James, Steenbock Professor of Nutritional Sciences (also Biochemistry); Ph.D., 1985. Mechanisms of fat cell differentiation; regulation of gene expression by dietary and hormonal factors

Olson, Beth, Associate Professor. Ph.D. – Nutrition, University of California at Davis. Breastfeeding support and improving infant feeding practices

Parks, Brian, Assistant Professor of Nutritional Sciences, Ph.D., 2008. Systems genetics, Gene-diet interactions, and molecular mechanisms of obesity and diabetes

Sunde, Roger, Professor of Nutritional Sciences; Ph.D., 1980. Selenium deficiency as a model for nutrient regulation of gene expression; molecular mechanism of selenium regulation and homeostasis; biochemical functions of selenium

Tanumihardjo, Sherry, Professor of Nutritional Sciences; Ph.D., 1993. Vitamin A assessment methodology; carotenoid bioavailability; and international nutrition

Yen, Eric, Assistant Professor of Nutritional Sciences; Ph.D. 2000. Intestine, assimilation of dietary fat, and energy balance

MEMBERS OF THE INTERDEPARTMENTAL GRADUATE PROGRAM IN NUTRITIONAL SCIENCES FROM OUTSIDE THE DEPARTMENT:

The department faculty above are also included in the trainers for IGPNS.

Anderson, Rozalyn, Assistant Professor, Ph.D., 2000. Nutrient sensitive regulatory pathways in aging and age-associated disease

Arriola Apelo, Sebastian I, Assistant Professor of Dairy Science; Ph.D., 2013. Mechanistic mathematical models of nutrient metabolism and cellular signaling, with the major goal of maximizing nutrient efficiency for a sustainable dairy industry

Attie, Alan, Professor of Biochemistry; Ph.D., 1980. Cell biology of lipoprotein assembly; genetics of obesity and diabetes

Binkley, Neil, Associate Professor of Medicine, M.D., 1979. Vitamin K insufficiency and osteoporosis

Bolling, Brad, Associate Professor of Food Sciences, Ph.D., 2007, Food chemistry and analysis, dietary phytochemicals, functional foods and prevention of chronic disease.

Carey, Hannah, Professor of Veterinary Medicine; Ph.D., 1983. Gastrointestinal physiology; intestinal adaptation; mammalian hibernation and its application to biomedicine; cellular and physiological responses to stress

Crenshaw, Thomas, Professor of Animal Science; Ph.D., 1980. Skeletal tissue growth and assessment; statistical approaches to establishment of mineral and amino acid requirements; swine nutrition

Davis, Dawn, Assistant Professor; M.D., Ph.D., 2003. Dissertation: "Changes in pancreatic beta cell gene expression in response to obesity and in the setting of beta cell proliferation"

Denu, John, Professor of Biomolecular Chemistry; Ph.D., 1993. Investigation of the proposed "Histone Code"; understanding the mechanisms of enzymes that reversibly modify proteins and the effects of these modifications on protein function

Engelmann, Corinne, Associate Professor of Population Health Sciences; Ph.D. (2006). Study design and data analysis of genetic, demographic, socioeconomic, behavioral, physiological and environmental factors of complex diseases, including biomarkers and preclinical traits related to Alzheimer's disease, and also vitamin D deficiency

- Engin, Feyza**, Assistant Professor of Biomolecular Chemistry; Ph.D., 2007. Investigating the molecular mechanisms of organelle dysfunction and cellular stress responses in the pathogenesis of diabetes
- Fernandez, Luis**, Professor of Surgery, M.D., 1987. Islet cell transplantation and beta cell biology
- Funk, Luke**, Assistant Professor of Surgery. 2005 MD, Ph.D., FACS. Bariatric and metabolic surgery, esophageal and gastric disorders, abdominal wall hernias and gall bladder disorders
- Galmozzi, Andrea**, Assistant Professor; Ph.D., 2010. Trafficking of signaling metabolites.
- Goldman, Irwin**, Professor of Horticulture; Ph.D. Vegetable breeding and genetics, human health attributes of vegetable crops and breeding of vegetables for culinary quality
- Hernandez, Laura**, Assistant Professor of Dairy Science; Ph.D., 2008. Regulation of lactation and milk synthesis in relation to the autocrine, paracrine, endocrine and serotonin systems. Regulation of mammary gland calcium transport and maternal calcium homeostasis during lactation
- Kanarek, Marty**, Professor of Population Health Sciences and Environmental Studies; Ph.D., 1978. Environmental epidemiology; potential population health effects from consumption of fish contaminated with mercury, PCBs, and other chemicals
- Karasov, William**, Professor of Wildlife Ecology; Ph.D., 1981. Molecular mechanisms of intestinal enzyme adaptation, intestinal absorption, nutritional ecology of wild vertebrates
- Kimble, Michelle**, Assistant Professor of Medicine; Ph.D., 2003. Pancreatic beta-cell response to nutrient and hormonal stimulation
- Kling, Pamela**, Associate Professor of Pediatrics; M.D. 1985. Erythropoiesis, iron metabolism and roles of erythropoietin in early development
- Knoll, Laura**, Associate Professor of Medical Microbiology & Immunology; Ph.D., 1994. Using -omics technology to study host/ pathogen interactions and metabolism of the intracellular parasite *Toxoplasma gondii*
- Kudsk, Kenneth**, Professor of Surgery; M.D., 1975. Effect of route and type of nutrition on surgical outcome; mucosal immunity and response to infection
- Lamming, Dudley**, Assistant Professor of Endocrinology, Diabetes, and Metabolism; Ph.D., 2008. Protein regulation of cellular processes that affect growth, metabolism, and aging
- Leone, Vanessa**, Assistant Professor of Animal Biologics and Metabolism; Ph.D., 2009. Intersection of diet, gut microbes, circadian rhythms, and metabolism using preclinical models.
- Mares, Julie**, Professor of Ophthalmology; Ph.D., 1987. Epidemiological study of relationships between diet and age-related eye disease
- Malecki, Kristen**, Assistant Professor of Population Health Sciences, Ph.D. 2005. Epidemiological study of relationships between environment and health; system-science approaches to addressing health disparities, translational community base environmental health research
- Merrins, Matthew**, Assistant Professor of Medicine; Ph.D., 2008. Ability of pancreatic islet beta cells to trigger cell proliferation and release of insulin during periods of increased insulin demands
- Prolla, Tomas**, Professor of Genetics and Medical Genetics. Ph.D. 1994. Molecular mechanisms of ageing and its retardation through caloric restriction
- Reed, Jess**, Professor of Animal Sciences; Ph.D. 1983. Flavonoids and other phytochemicals in animal and human health and nutrition
- Reeder, Scott**, Professor. M.D., Ph.D. Abdominal adiposity, liver fat, liver iron overload and other features of diffuse liver disease, quantification of perfusion in liver tumors, hemodynamics of portal hypertension, and the use of new contrast agents in liver and biliary diseases
- Rey, Federico**, Associate Professor of Bacteriology; Ph.D. 2006. Understand how variations in the gut microbiome modulate the effects of diet and host's susceptibility to cardiometabolic disease
- Schrage, William**, Professor of Kinesiology; Ph.D., 2001 (Physiology). Human cardiovascular studies focused primarily on regulation of skeletal muscle or cerebral blood flow in response to exercise or environmental stress, and how obesity and insulin resistance alter this regulation.
- Simcox, Judith**, Assistant Professor of Biochemistry; Ph.D., 2014. Transcriptional Regulation of Nutrient Responsive Pathways in Thermogenesis
- Simon, Philipp**, Professor of Horticulture; Ph.D., 1977. Biochemical genetics and breeding of carrots, alliums, and cucumber; genetic improvement of vegetable culinary and nutritional value
- Trentham-Dietz, Amy**, Professor of Cancer Epidemiology. Ph.D. 1997. Modifiable lifestyle factors including obesity, physical activity, and environmental factors to better understand breast cancer etiology and reveal avenues for prevention
- Van Pijkeren, Jan Peter**, Assistant Professor of Food Science, Ph.D., Diet-Microbe-Phage interactions in the gut ecosystem.
- Westmark, Cara**, Assistant Professor of Neurology. Ph.D. Alzheimer's disease and fragile X syndrome focuses on the synaptic function of amyloid beta protein precursor (APP) and amyloid-beta
- White, Heather**, Assistant Professor of Dairy Science; Ph.D. 2010. Nutritional Physiology – Focus on hepatic carbon flux specifically during the coordinated responses to the transition to lactation, nutrition, and stress in dairy cattle and during onset and progression of NAFLD and NASH in humans

SUPPORT STAFF

Graduate Coordinator: Katie Butzen MS.Ed., kbutzen@wisc.edu