

**DEPARTMENT OF
FOOD SCIENCE AND
TECHNOLOGY
THE UNIVERSITY OF
GEORGIA**

**Faculty Research
Interests**

Athens, GA 30602 (Phone: 706-542-2286; FAX: 706-542-1050)

<http://www.foodscience.caes.uga.edu/>

Casimir C. Akoh

Research Professor

Ph.D. Washington State University

cakoh@uga.edu; 706-542-1067

Food chemistry and biochemistry.

Chemical and enzymatic synthesis of fat

substitutes and structured lipids. Food

emulsifiers; enzymatic modification of

lipids and phospholipids; synthesis of

flavor and fragrance compounds.

Recovery of frying oil; nutraceuticals, and

phytochemicals.

Jinru Chen

Professor*

Ph.D. University of Guelph

jchen@uga.edu; 770-412-4738

Microbial genetics - rapid detection of

bacterial pathogens; epidemiological

typing; microbial stress response;

bacterial physiology and pathogenicity;

elimination of pathogens from food.

Manjeet S. Chinnan

Emeritus Professor*

Ph.D. North Carolina State University

chinnan@uga.edu; 770-412-4741

Food Processing and Engineering. Ma-

thematical modeling and computer simu-

lation of food processes; frying of foods;

utilization of edible films; food packaging;

processing of cereal legumes; posthar-

vest handling of peanuts.

Ronald R. Eitenmiller

Emeritus Professor

Ph.D. University of Nebraska

eiten@uga.edu; 706-542-1091

Basic and applied studies with food and

microbial enzymes; amine formation in

food and relation to safety and quality;

food composition; vitamin analysis me-

thods, processing effects on nutrient

quality, functional foods, phytochemicals.

Joseph F. Frank

Professor

Ph.D. University of Wisconsin

cmsjoe@uga.edu; 706-542-0994

Dairy and food microbiology; growth and

survival of microorganisms in the food

processing plant; biofilms; microbial

viability detection; dairy fermentations.

Mark A. Harrison

Professor and Graduate Coordinator

Ph.D. University of Tennessee

mahfst@uga.edu; 706-542-1088

Food microbiology and toxicology. Oc-

currence and survival characteristics of

bacterial pathogens in processed food;

shelf-life extension of processed food;

pathogen detection methodology.

Yao-wen Huang

Professor

Ph.D. University of Georgia

huang@uga.edu; 706-542-1092

Aquatic food technology. Processing and

microbiology of fishery and poultry prod-

ucts; new product; shelf-life extension of

processed food; by-product recovery and

utilization.

Yen-Con Hung

Professor*

Ph.D. University of Minnesota

yhung@uga.edu; 770-412-4739

Physical properties of foods; food quality

enhancement; inactivation of pathogens

on foods; mathematical and computer

modeling of heat and mass transfer; non-

destructive quality sensing; postharvest

handling of fruits and vegetables.

William C. Hurst

Professor and Outreach Coordinator

Ph.D. Louisiana State University

bhurst@uga.edu; 706-542-0993

Postharvest technology of horticultural

crops (fruits, nuts, vegetables). HACCP

and SQC (Statistical Quality Control) in-

struction for fruit/vegetable processing,

fresh produce handling, and minimally

processed produce.

William L. Kerr

Professor and

FPRDL Coordinator

Ph.D. University of California

wkerr@uga.edu; 706-542-1085

Physical properties of foods; food proc-

essing. Rheological and textural

properties of foods. NMR, ultrasound,

and calorimetric techniques as process

sensors. Computational modeling of

food components.

Ronald B. Pegg

Assistant Professor

Ph.D. Memorial University of Newfound-

land

rpegg@uga.edu; 706-542-1099

Functional foods and health aspects of

food products.

Robert D. Phillips

Emeritus Professor*

Ph.D. Auburn University

rphilli@uga.edu; 770-412-4744

Nutritional and functional properties of

plant proteins. Food protein from novel

and underutilized sources. Detoxification

of aflatoxin-contaminated peanut meal,

reduction of allergenic potential of pea-

nuts, generating new products from ce-

reals and legumes. Nutraceutical formu-

lations from muscadines and blueberries.

Anna V. A. Resurreccion

Distinguished Research Professor*

Ph.D. University of Georgia

aresurr@uga.edu; 770-412-4736

Consumer preferences. Sensory evalua-

tion. Food quality. Relationship between

physico-chemical quality characteristics

of raw, processed, packaged and stored

food. Modeling and optimization of formu-

lations and processes in food products

that utilize plant protein sources. Nutrition.

(Continued next page)

Robert L. Shewfelt

Meigs Professor & Undergraduate Coordinator
Ph.D. University of Massachusetts
shewfelt@uga.edu; 706-542-5136
Flavor and color quality of foods as evaluated by instrumental techniques, sensory analysis and consumer testing; postharvest physiology of fresh fruits and vegetables.

Rakesh K. Singh

*Faculty located at:
Dept. of Food Science and Technology
Griffin, Georgia 30223-1797
Phone: 770-412-4758
FAX: 770-412-4748

Center for Food Safety**Griffin, Georgia 30223-1797****(Phone: 770-228-7284) (FAX: 770-229-3216)**<http://www.ugacfs.org/>**Walid Alali**

Assistant Professor
Ph. D. Texas A & M
walali@uga.edu; 770-467-6066

Analytical and molecular epidemiology of food borne pathogens. Epidemiology of infectious disease organisms. Developing novel quantitative molecular approaches to food safety. Developing multivariate statistical models to adjust for dependency (i.e., clustering) among phenotypic and genotypic data.

Larry R. Beuchat

Emeritus D. W. Brooks Distinguished

Professor

Ph.D. Michigan State University
lbeuchat@uga.edu; 770-412-4740

Microbiology of fruits, vegetables, nuts, and legumes; methodology for detection of yeasts, molds and pathogenic bacteria; metabolic injury of bacteria and fungi; antimicrobial compounds in foods; fermented foods; thermal resistance of mold ascospores; food preservatives.

Jennifer Cannon

Assistant Professor

Ph.D. University of North Carolina
jcannon@uga.edu; 770-467-6094

Foodborne Viruses: Methods for detection of human noroviruses and Hepatitis A virus on ready-to-eat and minimally processed foods; virus transfer by handling, processing, and irrigation; physical and chemical treatments for virus inactivation.

Michael P. Doyle

Regents Professor and Director

Ph.D. University of Wisconsin
mdoyle@uga.edu; 770-228-7284

Foodborne bacterial pathogens. Research focused on the development of methods for pathogen detection and the identification of means to control or eliminate pathogens from foods.

Marilyn C. Erickson

Associate Professor

Ph.D. Oregon State University
mericks@uga.edu; 770-412-4742

Food Biochemistry - Oxidative stability of foods; Antioxidant supplementation to tissues and formulated foods; Applications of oxidative stress for inactivation of food-borne pathogens.

Ynes R. Ortega

Associate Professor

Ph.D. University of Arizona
ortega@uga.edu; 770-233-5587

Parasitology; detection of human and animal pathogenic parasites in food, biological and environmental samples; pathogenesis of coccidian parasites with emphasis on *Cryptosporidium parvum* and *Cyclospora cayentanensis*; methods for parasites inactivation in food products.

Professor and Department Head

Ph.D. University of Wisconsin

rsingh@uga.edu; 706-542-1084

Thermal process modeling including aseptic processing and continuous high-pressure, recovery of food processing waste water, and biosensor development.

Louise Wicker

Professor and MFT Coordinator

Ph.D. North Carolina State University
lwicker@uga.edu; 706-542-2574

Protein chemistry, pectin substances, pectic enzymes. Physical properties of foods. Enzymes as process aids. Pectin-protein interactions and colloidal stability of juices, juice drinks, acidified milk drinks, functional beverages. Prediction of performance of ingredients in complex food systems and value added processing of foods for quality, stability and performance.

Adjunct Faculty

Mark Berrang

Adjunct Assistant Professor
Ph.D. University of Georgia
Microbiologist, USDA-ARS-PPMQ
Russell Research Center
mark.berrang@ars.usda.gov

Contamination of poultry carcass with *Campylobacter* and *Listeria* during processing and further processing.

Aaron L. Brody

Adjunct Professor
Ph.D. Massachusetts Institute of Technology
Consultant, Packaging/Brody Inc.
aaronbrody@aol.com

Food packaging and food product development.

Faith J. Critzer

Adjunct Assistant Professor
Ph. D. University of Tennessee
Bush Bros. and Company
fcritzer@bushbros.com

Studies which examine gene expression profiles of foodborne pathogens and spoilage microorganisms. Rapid detection of foodborne pathogens using traditional and molecular techniques. Novel intervention and sampling technologies to improve the safety of food, such as, non-thermal plasma processing technology for the decontamination of foodborne pathogens from produce surfaces.

Jeffrey L. Kornacki

Adjunct Assistant Professor
Ph.D. University of Wisconsin
President and Senior Technical Director,
Kornacki Food Safety Associates, LLC
Jlkorn731@gmail.com

Food safety and microbiology.

Karina G. Martino

Adjunct Assistant Professor
Ph.D. Michigan State University
kgmart@uga.edu

Food processing. Modeling food quality Value-added processing of agricultural commodities. Food safety engineering. Predictive microbiology, including growth

and inactivation. Parameters estimation, uncertainty assessment of model prediction. Microbial food safety and risk assessment determination by using predictive modeling.

Young W. Park

Adjunct Assistant Professor
Ph.D. Utah State University
Professor, Fort Valley State College
parky@fvsu.edu

Chemistry/biochemistry of foods and dairy products; chemical and biochemical characterization, isolation, quantification of nutrients and constituents in foods especially in goat milk and its products; cholesterol, volatile compounds, fat and protein moieties; degradation processes of foods in relation to their shelf-life.

Mary Alice Smith

Adjunct Associate Professor
Ph.D. University of Arkansas for Medical Sciences

Associate Professor, Department of Environmental Health Science, UGA
masmith@uga.edu

Effects of toxicants on reproduction and development; environmental and microbial risk assessment methodology; effects of pathogens on pregnancy and development.

Hong Zhuang

Adjunct Associate Professor
Ph. D. University of Kentucky
Research Food Technologist
USDA-ARS
Russell Research Center
hong.zhuang@ars.usda.gov

Developing rapid and non-destructive spectral methods to predict poultry meat quality; Developing packaging technology for poultry meat shelf life extension; Evaluating and improving poultry meat quality and poultry processing using sensory analysis and instrumental methods; Developing quality assessment methods for poultry meat products.

(Revised January 2011)