

Faculty Expertise Index

Advanced Artificial Intelligence, Technology, & Control Systems Development for Biological & Food Process Control – Ted Labuza; Roger Ruan

Anthropometry – Chery Smith

Application of Behavior Change Theory – Marla Reicks

Biorefining, Bioprocessing, & Value-Added Process Development – Ted Labuza; Roger Ruan

Bioterrorism – (see Microbiology)

Biotransformation Enzymes – Sabrina Peterson

Body Cell Mass & Fluid Distribution Determination by Multiple Tracer Dilution – Carrie Earthman

Body Composition & Energy Expenditure Assessment – Carrie Earthman; Dan Gallaher; Susan Raatz; Joanne Slavin

Brain Sites & Substrates Mediating Energy Balance – Catherine Kotz

Carbohydrates – Mirko Bunzel; Daniel Gallaher; Ted Labuza; Joanne Slavin

Lignins from Dietary Fiber – Mirko Bunzel

Non-Starch Polysaccharides – Mirko Bunzel; Daniel Gallaher; Joanne Slavin

Resistant Starch – Joanne Slavin

Clinical Nutrition – Carrie Earthman

Community Nutrition

Community & Individual Nutrition Assessments – Chery Smith

Community Nutrition – Chery Smith

Culture, Food & Health

Cross-Cultural Engagement – Tiffany Beckman; Craig Hassel

Cross-Cultural Health – Linda Brady

Culture, Food & Health – Tiffany Beckman

Latino Nutrition – Linda Brady

Nutritional Anthropology – Chery Smith

Sociocultural Aspects of Food – Chery Smith

Dairy Chemistry/Components – Ted Labuza; Tonya Schoenfuss; David Smith

Diabetes

Diabetes – Shalamar Sibley

Diet & Type 2 Diabetes – Andrew Flood; Mary (Penny) Gannon; Susan Raatz

Influence of Diet on the Risk of Diabetes – Chen; Andrew Flood

Insulin Resistance & Type 2 Diabetes – Xiaoli Chen

Molecular & Cellular Mechanism of the Development & Prevention of Nutrition – Related Chronic

Prevention & Treatment of Diabetes – Doug Mashek

Role of Adipose Tissue in the Development of Obesity-Linked Insulin Resistance & Type 2

Diabetes – Shalamar Sibley

Whole Grains, Grain Components, & Diabetes – Andrew Flood; Daniel Gallaher

Diet & Health (see Obesity, Phytochemicals, Nutrition)

Cancer

Diet & Cancer – Andrew Flood; Sabrina Peterson; Joanne Slavin

Diet & Colon Cancer – Andrew Flood; Daniel Gallaher

Omega 3 fatty acids & sex hormone mediated cancer – Susan Raatz

Diet & Reproductive Hormones – Mindy Kurzer

Dietary Bioactive Peptides/Phytochemicals – Daniel Gallaher; Baraem Ismail; Sabrina Peterson

Dietary Fat – Daniel Gallaher; Doug Mashek; Susan Raatz

Dietary Fiber – Mirko Bunzel; Daniel Gallaher; Ted Labuza; Susan Raatz; Joanne Slavin

Dietary Influences on Cholesterol Lowering & Atherosclerosis – Daniel Gallaher; Susan Raatz; Joanne Slavin

Dietary Supplements – Linda Brady; Ted Labuza; Mary Schmidl

Lignins from Dietary Fiber – Mirko Bunzel

Diversity in Food & Health Epistemology – Craig Hassel

Education & Facilitation

Dietetic Education – Carrie Peterson

Leading Focus Group Discussions – Chery Smith

Nutrition Education – Marla Reicks

Estrogen Metabolism in Humans – Mindy Kurzer

Fatty Acids

Fatty Acids & Energy Metabolism Changes – Doug Mashek

Omega 3 Fatty Acids & Chronic Disease Risk Reduction – Susan Raatz

Fiber – Structural Characteristics & Physiological Effects – Mirko Bunzel; Daniel Gallaher; Joanne Slavin

Flavor (see Sensory Science)

Flavor Chemistry – Gary Reineccius; Jean-Paul Schirle-Keller

Flavor Processing – Gary Reineccius

Off-Flavors – Gary Reineccius; Jean-Paul Schirle-Keller

Food Additives – Artificial Sweeteners – Ted Labuza

Food Analysis

Chromatographic Separation Techniques – Mirko Bunzel

Gas Chromatography – Mass Spectrometry – Gary Reineccius

Liquid Chromatography – Mass Spectrometry – Chi Chen

Food Biotechnology – Daniel O’Sullivan; Ted Labuza

Food Defense – Frank Busta; Francisco Diez-Gonzalez; Ted Labuza

Food Engineering – Ted Labuza; Gary Reineccius; Roger Ruan; David Smith

Food Labeling – Ted Labuza

Food Laws & Regulations – Ted Labuza; Mary Schmidl

Food Processing (see Phytochemicals, Advanced Artificial Intelligence)

Canning Technology – Ted Labuza

Cheese-Making – Larry McKay; Dan O’Sullivan; Tonya Schoenfuss; Dave Smith

Dehydration – Ted Labuza; Gary Reineccius

Encapsulation Technology – Ted Labuza; Gary Reineccius

Extrusion of Foods – Ted Labuza

Food Irradiation – Francisco Diez-Gonzalez; Ted Labuza

Food Quality – Len Marquart; Tonya Schoenfuss; Zata Vickers

Technology & Control Systems Development for Biological & Food Process Control – Roger Ruan

Food Recalls – Francisco Diez-Gonzalez; Ted Labuza

Food Service Management – Leonard Marquart

Food Toxicants – Acrylamide – Ted Labuza

Functional Foods – Ted Labuza; Mary Schmidl

Gene Diet Interactions – Charles Muscoplat; Sabrina Peterson

Gene Regulation in Lactococcus – Daniel O’Sullivan

Gene Transfer Systems & Plasmids in Dairy Lactocci – Larry McKay

Glycogen Metabolism – Mary (Penny) Gannon

Health Literacy – Linda Brady

Hepatic Steatosis, Prevention & Treatment – Doug Mashek

Human Nutrition – Joanne Slavin

Lipid Oxidation

Antioxidants – A. Saari Csallany; Ted Labuza

Fatty Acid Degradation in Oils & in Vivo (Toxic Hydroxynonenal Formation) – A. Saari Csallany

Medical Foods – Mary Schmidl

Metabolomics – Chi Chen

Microbiology (Frank Busta; Francisco Diez-Gonzalez; Joellen Feirtag; Ted Labuza; Dan O’Sullivan)

Antimicrobial Compounds – Ted Labuza; Daniel O’Sullivan

Bacteriophage – Daniel O’Sullivan

Bacteriophages against Foodborne Pathogens – Francisco Diez; Joellen Feirtag

Bacteriophages of Dairy Starter Cultures – Larry McKay

Bifidobacteria Genomics – Daniel O’Sullivan

Bioerroism Agents – Francisco Diez-Gonzalez; Ted Labuza

Fermentations – Larry McKay

Food Safety Microbiology – Frank Busta; Francisco Diez-Gonzalez; Joellen Feirtag; Ted Labuza

Fresh Fruits and Vegetables – Francisco Diez-Gonzalez; Joellen Feirtag

Hazard Analysis & Critical Control Points – Francisco Diez-Gonzalez; Joellen Feirtag

Organic Foods (Safety) – Francisco Diez-Gonzalez

Pre-Harvest Control of Pathogenic E. coli – Francisco Diez-Gonzalez

Predictive Microbiology – Francisco Diez-Gonzalez; Ted Labuza

Sanitizers – Francisco Diez-Gonzalez; Joellen Feirtag

Neural Networks

Neural Networks & Feeding – Allen Levine

Neural Regulation of Food Intake – Allen Levine

Neuropeptides

Regulation of Feeding, Behavior & Energy Expenditure – Catherine Kotz; Allen Levine

Nutraceuticals – Linda Brady

Nutrigenomics – Xiaoli Chen; Charles Muscoplat

Nutrition

Assessments & Surveys – Chery Smith
Community & Individual Nutrition Assessments – Chery Smith
International Nutrition – Chery Smith
Nutritional Anthropology – Chery Smith
Nutritional Management & Assessment of Clinical Populations – Carrie Earthman
Sports Nutrition – Linda Brady; Carrie Peterson; Joanne Slavin
Survey Development – Chery Smith

Obesity

Diet and Obesity – Xiaoli Chen; Joanne Slavin
Molecular & Cellular Mechanism of the Development & Prevention of Nutrition – Related Chronic
Nutritional Management after Gastric Bypass Surgery – Carrie Earthman
Obesity – Mary Schmidl
Prevention & Treatment of Obesity – Doug Mashek
Regulation of Feeding, Behavior & Energy Expenditure – Catherine Kotz; Allen Levine
Role of Adipose Tissue in the Development of Obesity-Linked Insulin Resistance & Type 2 –
Shalamar Sibley

Opioid Peptides & Reward – Allen Levine

Organic Foods (see Microbiology)

Phytochemicals

Bioavailability of Phytochemicals as Affected by Their Chemical Structure & Interactions with
Proteins – Baraem (Pam) Ismail; Ted Labuza
Chemistry & Fate of Phytochemicals during Processing & Storage – Baraem (Pam) Ismail; Ted
Labuza
Phytochemicals – Joanne Slavin

Phytoestrogens – Mindy Kurzer

Phytochemicals, Hydroxycinnamates in Cereal Grains & Other Plant Products – Mirko Bunzel

Plant Cell Wall Chemistry – Mirko Bunzel

Prebiotics – Daniel Gallaher; Joanne Slavin; David Smith

Probiotic Cultures – Daniel O'Sullivan

Proteins & Enzymes – Baraem (Pam) Ismail; Ted Labuza

Proteomics – Xiaoli Chen

Sensory – Food Acceptability, Testing – Zata Vickers

Shelf Life of Foods – (Shelf Life Dating, Prediction, Extension & testing) – Ted Labuza; Roger Ruan
RFID Tags – Ted Labuza

Soy – Mindy Kurzer

Vitamin D – (deficiency and repletion in relation to nonskeletal endpoints including glucose homeostasis
and cancer, and how obesity relates to vitamin D status) - Shalamar Sibley

Whole Grains & Cereals

Carbohydrates – Joanne Slavin
Whole Grains – Daniel Gallaher; Leonard Marquart; Joanne Slavin

Xenobiotic & Drug Metabolism – Chi Chen