

**Faculty Activities
Human Nutrition
2010**

Faculty (FTE)	Number of Faculty
Research and Teaching	14
Extension Faculty	3
Extension Associate/Assistant	2
Research Assist/Research Assoc/Post Doc	2

External Programs

	Number
Grants	35
KSU/College Research Awards	3
Ag Experiment Station Projects	8
Refereed Journal Articles	37
Book Chapters, Video, CD Rom, web sites, other articles	3
National and International Conference Presentations	93
State and local presentations	83
Offices in National and International Professional Organizations	8
Editorial Boards	4
Extension Publications	132
Reviewer for publications	17
Faculty Awards and Recognitions	30
Research Reviews 2	2

National and International Conferences
Special Sorghum Conference
Central States Region American College of Sports Medicine Conference
National TV programs
National evening new programs
National radio programs
Priester National extension Health Annual Conference
Experimental Biology Meeting
Eli-Lilly/Elanco Hyena Inmate Immunity
K-INBRE Symposium
SNE
APHA
Symposium of Biomedical Research Excellence
AXIO Learning Conference
Reciprocal Meat Conference
4 th Eurosense Symposium
15 th World Congress of Food Science and Technology
2 nd Conference of Society of Sensory Professionals
Institute of Food Technologists
4 th European Conference on Sensory and Consumer Research
Universidad Central de Caribe Medical School
Joint Nestle/General Mills International Symposium
Update of Sensory Evaluation Symposium
Universityi Kebangsan Malaysia Faculty of Science and Technology Research Symposium
3 rd Estonia-Finland Bilateral Product Development & Marketing Symposium
Kansas Speech Hearing Association
1 st National Congress on Pomegranati Product Economics, Industrialization, Diet & Health
Shanghai Academy of Agricultural Sciences
College of Veterinary Medical, Nanjing Agriculture University
Africa
NIA
Society Nutrition Education
American Dietetic Association

Faculty Awards and Recognitions
Member of the Governor's Council on Fitness
Presidential Award for Outstanding Undergraduate Teaching – May 2010
College of Human Ecology Council Faculty of Year Award – May 2010
Developed implementation and continuation of successful student learning outcomes award for KSU University Office of Assessment – November 2010
Faculty of Week by KSU Volleyball Team – November 27, 2010
Faculty of Week by Faculty Senate – October 7, 2010
Purple sweet potato project selected as one of the top intriguing discoveries from 2010 in KSU
Kansas Food Security Task Force Member appointed by Governor Parkinson – 3 Faculty
Human Ecology Dawleys' Scholars Award for Faculty Excellence in Student Development
Epsilon Sigma Phi, Alpha Rho Chapter International Service Award
Disability Support Services "PAAC Award"
Outstanding Alumnus and Commencement Speaker, Pratt Community College
Outstanding Faculty Member Award – Lambda Chi Alpha Fraternity
Kansas State University International Educator Award – 2 Faculty
Paper in Journal of Sensory Studies 2008 was 2 nd most cited article in 2010 – 2 faculty
Paper from 2009 was 3 rd most downloaded article from J of Sensory Studies in 2010 with more than 200 downloads – 2 faculty
2 nd Place in the Sensory Wiki Competition Sponsored by the Society of Sensory Professionals - 2 Graduate Students
2010 KSU Research Foundation Fellowship – Graduate Student
Kellogg Intern
One of five student research awards for SNE Conference – Graduate Student
Guest Editor online journal "Nutrients"
Journal of Nutrition Education and Behavior – Best GEM paper "Promotion Better Family Meals for Girls Attending Summer Programs"
Associate Media and Publishing named ADA's Cultural Food Practices Recipient of Bronze Award in Technical Book Category
K State Research and Extension Diversity Award
Research Innovation Award at Society of Sensory Professional Meetings "Predicting Product Success With Information Known Before Launch"

Articles in Refereed Journals
Nutrients
Journal of Nutrition for the Elderly
Journal of Sensory Studies
Journal of Nutrient Metabolism
Cancer Prevention Research
Journal of Nutrition Biochem
American Journal Nursing
Food Science and Technology
Plosone.org
Meat Science
Food Science and Technology
Indian Food Industry

Springer Science+Business Media
Nutrition Research
Animal Feed Science and Technology
SRX Veterinary Science
Biological Trace Elements Research
Nutrients
Proceedings of the Congress on Pomegranate
Journal of the Science of Food Agriculture
Dysphagia
Journal of Food Science
American Dietetic Association
Food Technology
Adolescent Medical Health
Molecular Carcinogenesis
Journal Nutrition Research
LWT-Food Science Technology
Journal of Clinical Nursing

<u>Peer Reviews for Journals</u>	<u>Research Reviews</u>
Journal of Nutrition Education and Behavior	Chair – NASA Food Science Grants Review Panel
Journal of Extension	USDA NRI ad hoc reviewer
Journal of Foodservice Management and Education	
Journal American Dietetics	
Journal of Medicinal Food	<u>Editorial Boards</u>
Comparative Medicine	Journal of Sensory Studies, Editor
Journal of Nutrition (2 faculty)	Kasetsart (Thailand) Journal of Natural Science (2 faculty)
Nutrition and Cancer	Journal of Sensory Studies
Journal of Sensory Studies	
Journal of Food Science	
Food Quality and Preference	
Food and BioProcess Engineering	
African Journal of Food Science	
Nutrition Research	
Biological Trace Elemental Research	
Experimental Biology and Medicine	

Agriculture Experiment Station Research	
K State Ag Experiment Station	Nutrient bioavailability-Phytonutrients and Beyond
K State Ag Experiment Station	5 α -Reductase Inhibition to Decrease Prostate Tumor Growth
K State Ag Experiment Station	Human Health Benefits of Agriculture-Derived Foods and Nutraceuticals
K State Ag Experiment Station	Development and Application of Sensory Testing Methods
K State Ag Experiment Station	Promoting Healthful Eating to Prevent Excessive Weight Gain in Young Adults
K State Ag Experiment Station	EFNEP- Related Research, Program Evaluation and Outreach
K State Ag Experiment Station	Naturally Occurring Host Defense Peptides and Their Potential Use as Novel Food Packaging Preservatives
K State Ag Experiment Station	Purple Sweetpotato, Anthocyanins, and Cancer Prevention

Prof/Act #	Grant Sources	Grant Names
TM	COBRE	Epithelial Function in Health & Disease
EC, DC	Peryam & Kroll Research Corp.	Evaluation of Product Characteristics
EC, DC	Frito Lay	Acceptance of Food Products During Use
SP	USDA-Formula Grant Opportunity	FY 2010 Expanded Food and Nutrition Ed Program
DL	COBRE	Epithelial Function in Health and Disease
WW	Terry C. Johnson Center for Basic Cancer Research	Bioinformatic Statistics for Weight loss-induced Cancer Prevention Studies
EC	USDA, ARS	Improving Sorghum Odor Determination Consistency
MH, DM	USDA-National Needs Fellowship	Training in Human Nutrition-Carbohydrate, Obesity, and Diet
TM	Fort Dodge Animal Health	Studies on the Innate Immunity of Canis Familiaris: Not Familiar After All
TM	Fort Dodge Animal Health	Hyena Hygiene: Not A Laughing Matter
MH	Peine Excellence for Aging Initiative	Snack Availability Eating Environment in Care Facilities
MH	United Sorghum Checkoff Program	Sorghum as a Super Health Food II. Starch Digestability and Glycemic Index of Sorghum Based Foods
PP	USDA	Family Nutrition Program
MH JH	ADA – Herbert D. and Nylda Gemple Research Award	Dietary Intake of EPA and DHA and Cognitive Performance in Soldiers Deployed to Combat
MH	Nutrijoy	Glycemic Response of A Sports Beverage
DM	National Institutes of Health	Kansas Bridges to the Future
WW	Terry C. Johnson Center for Basic Cancer Research	GRA salary support

Prof/Act #	Grant Sources	Grant Names
DL	Terry C. Johnson center for Basic Cancer Res	Cancer Ctr Travel Award – ASCB2009 Annual Meeting
EC	SHS International North American	Flavor Formulation Development
BL	Terry C. Johnson Center for Basic Cancer Res	5 Alpha-reductase Inhibitors for Reduction of Prostate Tumor Growth
DC	USDA	Food Industry Management Enhancement Program
WW	Terry C. Johnson Center for Basic Cancer Res	Undergraduate Cancer Mentor Award (2) Cancer Prevention by Anthocyanin-Enriched Purple Sweetpotato in Animal Model Anti-cancer Effects of Anthocyanins-enriched Purple Sweetpotato in Human
BL	COBRE	Epithelial Cell Growth (5 Alpha-Reductase Inhibitors for Reduction of Prostate)
TK	South Dakota St Univ (USDA-NRI)	Development of A Randomized Trial Guided by the Process of PRECCEDE-PROCEED for Prev of Exc Weight Gain in Communities of Young Adults
TR	USDA, CSREES-National Int. Fd. Safety	Multimedia Food Safety Training Program for Community Based Older Adults
MH	World Class Emprise	The Capacity of Natural Honey to Enhance Athletic Performance
KA, EC	National Cattlemen’s Beef Association	Differentiation of Beef Flavor Across Muscles and Quality Grades
MH	University of Nebraska	Sustainability Grain Barley
BL	COBRE	COBRE Pilot
DL	Terry C Johnson Center for Basic Cancer Res	EQ Grant
EC	USDA-DIPSA Technical Serv Div	Develop Consistent Standard Reference Samples to be Used for Comparison During Training and Evaluation of Musty Odors in Grain Sorghum
EC, DC, KA	USDA (ISE)	Understanding International Consumer Needs and Testing Strategies for Food Production Development
DM, TD	NIH (Ruth L. Kirschstein Nat Res Service Award)	Nucleotide-Mediated Foam cell Formation in Smooth Muscle Cells
DL	Terry C Johnson Center for Basic Cancer Research	Wolfberry Bioactive Components Induce Jurkat Cell Apoptosis
ECIV KA	Frances Lewis	Red Beef Flavor Difference

HN Refereed Professional Publications 2010

Professional Journal Articles

Lattimer, JM, and MD Haub (2010) Effects of Dietary Fiber and Its Components on Metabolic Health. *Nutrients* 2, 1266-1289.

Suzanne M. Ryan, John A. Unruh, Koushik Adhikari, Melvin C. Hunt, Collette Schultz Kaster, John O. Matthews. (2010) Prediction of Japanese color score. *Meat Science*, 84: 165-171.

Koushik Adhikari, Lauren M. Dooley, Edgar Chambers IV, Natnicha Bhumiratana. (2010) Sensory characteristics of commercial lactose-free milks manufactured in the United States. *LWT – Fd Sci and Technol*, 43: 113-118.

Mark D. Haub, Kelcie L. Hubach, Enas K. Al-tamimi, Sammy Ornelas, and Paul A. Seib. (2010) Different types of resistant starch elicit different glucose responses in humans. *J Nutr Metab*, 1-4.

Jean Getz, Koushik Adhikari, Denis M. Medeiros. (2010) Nutrigenomics and Public Health. *Food Technology*, 01.10, 29-33.

Jeehyun Lee, Delores H. Chambers. (2010) Descriptive Analysis and U.S. Consumer Acceptability of 6 Green Tea Samples from China, Japan, and Korea. *J of Fd Sci* 75(2): S141-S147.

Ping Ouyang, Yu Jiang, Hieu M. Doan, Linglin Xie, David Vasquez, Rute Welti, Xiaoyu Su, Nanyan Lu, Betty Herndon, Shie-Shien Yang, Richard Jeannotte, Weiqun Wang. (2010) Weight Loss via Exercise with Controlled Dietary Intake May Affect Phospholipid Profile for Cancer Prevention in Murine Skin Tissues. *Cancer Prev Res*, 3(4): OF1-OF12.

Martin Talavera-Bianchi, Edgar Chambers IV, Edward E. Carey, Delores H. Chambers. (2010) Effect of organic production and fertilizer variables on the sensory properties of pac choi (*Brassica rapa* var. Mei Qing Choi) and tomato (*Solanum lycopersicum* var. Bush Celebrity). *J Sci Food Agric*, 90: 981-988.

Martin Talavera-Bianchi, Edgar Chamber IV, Delores H. Chambers. (2010) Lexicon to describe flavor of fresh leafy vegetables. *J Sens Stud*, 25: 163-183.

Chintana Oupadissakoon, Edgar Chambers IV, Varapha Kongpensook, Suntaree Suwonsichon, Renoo Yenket, Annlyse Retiveau. (2010) Sensory properties and consumer acceptance of sweet tamarind varieties grown in Thailand. *J Sci Food Agric*, 90: 1081-1088.

Richard R. Rosenkranz, Abigail Bauer, David A. Dzewaltowski. (2010) Mother-daughter resemblance in BMI and obesity-related behaviors. *Int J Adolesc Med Health*, 22(4):

Valentina Remig, Barry Franklin, Simeon Margolis, Georgia Kostas, Theresa Nece, James C. Street. (2010) Trans Fats in America: A Review of Their Use, Consumption, Health Implications, and Regulation. *J Am Diet Assoc*, 110(4): 585-592.

Allisha Weeden, Valentina Remig, Thomas J. Herald, Richard C. Baybutt. (2010) Vitamin and Mineral Supplements Have a Nutritionally Significant Impact on Micronutrient Intakes of Older Adults Attending Senior Centers. *J Nutr Elder*, 29:241-254.

Joseph Przybyszewski, Weiqun Wang, Angela Au, Courtney Perry, Megan Guetzko, Ken Koehler, Diane F. Birt. (2010) Dietary Energy Restriction, in Part Through Glucocorticoid Hormones, Mediates the Impact of 12-O-Tetradecanoylphorbol-13-Acetate on jun D and fra-1 in Sencar Mouse Epidermis. *Molecular Carcinogenesis*, 49:592-602.

Laura Vazquez-Araujo, Edgar Chambers IV, Koushik Adhikari, Angel A. Carbonell-Barrachina. (2010) Sensory and Physicochemical Characterization of Juices Made with Pomegranate and Blueberries, Blackberries, or Raspberries. *J Food Science*, 75(7): S398-2404.

J. Lee, E. Chambers IV, D.H. Chambers, S.S. Chun, C. Oupadissakoon, D.E. Johnson. (2010) Consumer Acceptance for Green Tea by Consumers in the United States, Korea and Thailand. *J Sensory Studies*, 25:109-132.

Tandalayo Kidd, Paula K. Peters. (2010) Decisional Balance for Health and Weight is Associated with Whole-fruit Intake in Low-income Young Adults. *Nut. Res.*, 30:477-482.

Nancy J. Gonzalez, Koushik Adhikari, Martin F. Sancho-Madriz. (2010) Sensory Characteristics of Peach-flavored Yogurt Drinks Containing Prebiotics and Synbiotics. *J. LWT – Food Sci Tech.* 44:158-163.

Martin Talavera-Bianchi, Koushik Adhikari, Edgar Chambers IV, Edward E. Carey, Delores H. Chambers. (2010) Relation between Developmental Stage, Sensory Properties, and Volatile Content of Organically and Conventionally Grown Pac Choi. *J Food Science* 75(4) S173-S181.

Jane M Garcia, Edgar Chambers IV, Megan Clark, Jennifer Helverson, Ziad Matta. (2010) Quality of Care Issues for Dysphagia: Modifications involving Oral Fluids. *J Clinical Nursing* 19:1618-1624.

Martin Talavera-Bianchi, Edgar Chambers IV, Delores H. Chambers. (2010) Describing Flavor Using Fewer and Simpler “HITS” (High Identity Traits) Profiling: An Example With Cheese. *J Sensory Studies* 25:481-493.

Delores H. Chambers, Emilien Esteve, Annylse Retiveau. (2010) Effect of Milk Pasteurization on Flavor Properties of Seven Commercially Available French Cheese Types. *J Sensory Studies* 25:494-511.

S. Hooge, D. Chambers. (2010) A Comparison of Basic Taste Modalities, Using A Descriptive Analysis Technique, For Varying Levels of Sodium and KCl in Two Model Soup Systems. *J Sensory Studies* 25:521-535.

Brian L. Lindshield, John W. Erdman. Chapter 15 Carotenoids. *Nutrition and Health: Bioactive Compounds and Cancer.* Springer Science+Business Media 2010.

Brian L. Lindshield, Nikki A. Ford, Kirstie Canene-Adams, Alan M. Diamond, Matthew A. Walig, John W. Erdman, Jr. (2010) Selenium, but Not Lycopene or Vitamin E, Decreases Growth of Transplantable Dunning R3327-H Rat Prostate Tumors. *Plosone.org* 5(4):e10423.

Janet Mertz Garcia, Edgar Chambers IV. (2010) Managing Dysphagia Through Diet Modifications. *AJN* 110(11): 26-33.

Linda Yarrow, Jane Mertz Garcia. (2010) Malnutrition: Risks and Concerns in Dysphagia Management. *Perspectives on swallowing and Swallowing Disorders.* *Dysphagia.* 19: 115 - 120.

Mamadou Fofana, Koushik Adhikari, Koichi Futakuchi, Joseph Dassou, Roseline T.M> Bleoussi, Ibnou Dieng. (2010) Urban Consumer Acceptability of Newly introduced Rice with Local and Imported Rice in Benin: A Comparison. *Indian Food Industry* 29: 37-45.

D.A. Llewellyn, T.T. Marstonb, K.L. Teutemachere, J.J. Higginsd, T. Melgarejo. (2010) Evaluation of low molecular weight fractions and crude enzyme preparation from a *Trichoderma* cellulose complex as a treatment for fibrous feeds. *Animal Feed Sciencef and Technology* 160: 39-48.

A Linde, and T. Melgarejo: (2010) Interventional treatment of pericardial effusion. *SRX Veterinary Science Volume.* Article ID 725492; doi:10.3814/725492.

Allan Ayella, Soyoun Lim, Yu Jiang, Takeo Iwamoto, Dingbo Lin, John Tomich, Weiqun Wang.(2010) Cytostatic inhibition of cancer cell growth by lignin secoisolariciresinol diglucoside. *Nutrition Research.* 30,762-769

Jean Getz, Dingbo Lin, Denis M. Medeiros (2010) The cardiac copper chaperone proteins scd and CCS are up-regulated, but Cox 1 and Cox 4 are down-regulated, by copper deficiency. *Biol Trace elem Res* DOI 10.007/s2011-010-8858-z

Higgins MM and BJ Murray (2010) Nutrition-related practices and attitudes of Kansas skipped-generation(s) caregivers and their grandchildren. *Nutrients* 2:1188-1211.

Koppel, K. and Chambers E.IV. (2010) Development and application of a lexicon to describe the flavor of pomegranate juice. *J. Sensory Studies.* 25: 819-837.

Talavera-Bianchi, M., Chambers, E. IV, Carey, E., and Chambers, D.H. (2010) Relation between developmental stage, sensory properties, and volatile content of organically and conventionally grown pac choi (*Brassica rapa* var. Mei Qing

Choi). *J. Food Sci.* 75:S173-S181.

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Lee, J. and Chambers, D.H. (2010) *Flavors of green tea change little during storage.* *J Sensory Studies* 25: 512-520.