

**Faculty Activities  
Human Nutrition  
2008**

<b>Faculty (FTE)</b>	<b>Number of Faculty</b>
Research and Teaching	15
Extension Faculty	3.5
Extension Associate/Assistant	3
Research Assist/Research Assoc/Post Doc	3

**External Programs**

	<b>Number</b>
Grants	33
Ag Experiment Station Projects	9
Refereed Journal Articles	41
Book Chapters, Video, CD Rom, web sites, other articles	4
Manuals	
National and International Conference Presentations	43
State and local presentations	83
Offices in National and International Professional Organizations	7
Offices in State and Local Organizations	
Editorial Boards	10
Extension Publications	102
Review Panels	5
Video Conferences	
Faculty Awards and Recognitions	12

<b>National and International Conferences</b>
American Chemical Society
AACC International Meeting
Society of Sensory Professionals
American College of Sports Medicine Central States Annual Conference
2 Day Workshop in Korea “Flavor Description and Classification of Cheese From Around the World”
14 <sup>th</sup> World Congress of food Science and Technology
Experimental Biology Meeting
ACS National Meeting
Food Innovation Conference
American Dietetic Association Food and Nutrition Conference and Expo
Korea Atomic Energy Research Institute
Tennessee State University Family and Consumer Science Seminar
American Public Health Association Conference
Tennessee State University – nutrition and food classes
National Ataxia Investigators’ Meeting
American Association of Cell Biology
Institute of Animal Husbandry and Vet Science, Zhejiang Academy of Agricultural Sciences
Institute of Food Technologists
American Speech-Language Hearing Association Annual Meeting
Universidad Central Del Garibe
International Standards Organization Committee on Sensory and Consumer Research Standards, Beijing

<b>Faculty Awards and Recognitions</b>
KSRE Diversity Award
Professor of Year Award from Department of Housing and Dining
Professor of Year Award – Human Ecology Student Council
Bronze Quill Award of Excellence
Member of team that won 2008 Distinguished Team Award from Extension Honorary, Epsilon Sigma Phi
University Distinguished Professor
Co-author of paper named “Best Paper” at the Society of Sensory Professionals conference
Biggest Extension Enthusiast
College Human Ecology Extension Excellence Award
Outstanding Doctoral Award from Central States American College of Sports Medicine
Developing Scholars Program Poster Award
3 <sup>rd</sup> Place KSU Graduate Paper Competition in Social and Behavioral Sciences Division

<b>Articles in Refereed Journals</b>
Journal of the American Dietetic Association
Journal of Food Quality
Journal of Sensory Studies
Proceedings of the 3 <sup>rd</sup> International Conference on O-Cha (Tea) Culture and Science
Journal of Nutrition Education and Behavior
Nutrition Reviews
Journal of Food Science
Food Protection Trends
Medicine and Science in Sports and Exercise
Journal of School Health
Psychology of Sport and Exercise
Journal of Nutrition
Journal of Environmental Health
Food Protection Trends
Journal of Foodservice Management and Education
Horticulture Science
Metabolism
Journal of Animal Science
American Journal of Animal and Veterinary Sciences
Food Quality Preference
Dysphagia
Biochem Biophys. Res Comm
Experimental Eye Research
Biophysical Reviews and Letters
International Journal of Applied Research in Veterinary Medicine
American Journal of Animal and Veterinary Sciences
Journal of Veterinary Medical Education
Wheat Antioxidants
American Journal of Public Health
Genes and Development
Methods
Plant Biotechnology Journal
Journal of Veterinary Internal Medicine
Journal of the American Medical Association
Perceptual and Motor Skills
Journal of the Science of Food and Agriculture

<b>Editorial Boards</b>	<b>Review Panels</b>
Molecular Nutrition and Food Research	USDA: National Res Initiative Competitive Grants Program
Experimental Biology and Medicine	NIH Grant Review Panel Member
Nutrition Research	USDA NRI ad hoc reviewer
Biological Trace Element Research	National Beef Cattlemen's Association
Journal of Nutrition	NIH Integrative Nutrition and Metabolic Processes Study Section
Journal of Sensory Studies (3 members)	
Co-Editor, Journal of Sensory Studies	
Editorial Advisory Board of Kasetsart (Thailand) Journal of Sensory Science (2 members)	
Assoc Editor of Journal of Biophysical Reviews and Letters	

<b>Agriculture Experiment Station Research</b>	
K State Ag Experiment Station	Nutrient bioavailability-Phytonutrients and Beyond
K State Ag Experiment Station	Cancer Prevention By Phytochemicals in Functional Foods
K State Ag Experiment Station	Using Stages of Change Model to Promote Consumption of Grains, Vegetables and Fruits By Young Adults
K State Ag Experiment Station	Human Health Benefits of Agriculture-Derived Foods and Nutraceuticals
K State Ag Experiment Station	Developing Sensory Tools For Evaluation of Products, Services, and Information
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

<b>Prof/Act #</b>	<b>Grant Sources</b>	<b>Grant Names</b>
MH 000560	MGP Ingredients Inc.	Acute Effect of Resistant Starch on Glucose Absorption and Insulin Sensitivity
EC, DC GHHN 528164	Peryam & Kroll Research Corp.	Evaluation of Product Characteristics
EC, DC 528152	Frito Lay	Acceptance of Food Products During Use
SP	USDA-Formula Grant Opportunity	FY 2009 Expanded Food and Nutrition Ed Program
DL GHHN 531326	Cobre	Epithelial Function in Health and Disease
PP, KF	United Methodist Health Ministry Fund	Moove to Lowfat Fund
MH, DM	USDA-National Needs Fellowship	Training in Human Nutrition-Carbohydrate, Obesity, and Diet
TM GHHN 600665	Fort Dodge Animal Health	Studies on the Innate Immunity of Canis Familiaris: Not Familiar After All
MMH	USDA/KS Gov Budget (KS Dept. on Aging	KS Senior Farmer's Market Nutrition Program
TM GHHN 0001034	Fort Dodge Animal Health	Hyena Hygiene: Not A Laughing Matter
PP	USDA	Family Nutrition Program
DD, RR	Sunflower Foundation	Girl Scouts Family Connection for Health Promotion
TM GHHN 531264	National Institutes of Health-Cobre	Epithelial Function in Health & Disease
MH GHHN 601105	Nutrijoy	Glycemic Response Of A Sports Beverage

<b>Prof/Act #</b>	<b>Grant Sources</b>	<b>Grant Names</b>
DM GHHN 600517	National Institutes of Health	Kansas Bridges to the Future (Year 5)
DM GHHN	National Institutes of Health	Kansas Bridges to the Future (Year 6)
GW GHHN 529571, 600260	National Institutes of Health	Weight Control, Cell Signaling and Cancer Prevention
EC GHHN 528199	SHS International North American	Flavor Formulation Development
PP, KF	Kansas Health Foundation	Berry Berry Good-Childhood Overweight Prevention Project
DC	USDA	Food Industry Management Enhancement Program
GW	Terry C. Johnson Center for Basic Cancer Res	Undergraduate Student Cancer Research-Mentoring 2 Students
GW GHHN 600861	Terry C. Johnson Center for Basic Cancer Res	Undergraduate Mentoring (3 Students)
GW GHHN 600555	Terry C. Johnson Center for Basic Cancer Res	Graduate Student Travel
MMH	United Methodist Health Ministry Fund/KS Nutrition Campaign	Pick A Better Snack
DL GHHN 601012	Univ of KS Med Ctr Res Institute	The Role of Gap Junctions in Oxidative Neurodegeneration in Cerebellum
MH GHHN600715	Nutrijoy	Services Agreement
MH GHHN000560	MGP	Resistant Starch and Exercise on Insulin Sensitivity In Older Adults
DL GHHN 60808	Univ of Kansas Med Ctr Research Institute (K-INBRE)	The Role of Gap Junctions in Oxidative Neurodegeneration In Cerebellum
TR GHHN 000671	American Dietetic Association	Association Among Dietary Supplement Use, Diet Intake, and Chronic Conditions of Older Adults
KH GHHN	United Methodist Health Ministry Fund	Develop and Air A Series of Nutrition and Physical Activity "Novellas" for the Spanish Speaking Population in Southwest Kansas
KH	United Methodist Health Ministry Fund	Healthy Hispanic Families
TR GHHN 000648	USDA, CSREES-National Int. Fd. Safety	Association Among Dietary Supplement Use, Diet Intake, and Chronic Conditions of Older Adults
GW GHHN 600260	Health and Human Services	

<b>Prof</b>	<b>Award Source</b>	<b>Award Title</b>
SP	Big 12 Fellowship	
SP	African Studies Center	Landscape/Lifescape Analyses of the Sustainability Nexus of Family Households in Aids-Impacted Africa
KA	Faculty Development	Can Proteomics Be Used to Screen Super-Tasters?

### Internal Programs

<b>Numbers of Enrolled Majors</b>	<b>Totals</b>		<b>NUEX</b>		<b>NUTR SCI</b>		<b>PHN</b>	
	S	F	S	F	S	F	S	F
-Spring 2008, Fall 2008								
HN Undergraduate Majors	178	215	82	96	45	49	51	70
Athletic Training Majors	224	128						
M.S. Majors	1	2						
Ph.D. Majors	20	20						
M.S. Food Science	10	11						
PhD Food Science	0	0						
Master of Public Hlth	3	6						
Non Degree	1	0						

<b>Numbers of Graduates In Majors</b>	<b>Totals</b>		<b>NUEX</b>		<b>NUSCI</b>		<b>PHN</b>	
	SP	SU/ F	S	F	S	F	S	F
Spring 2006, Fall 2006								
Undergraduate Majors	33	8	10	1	9	1	14	6
Athletic Training Majors	12	6						
M.S. Majors (MPH – 1, Fd Sci - 3)	3	1						
Ph.D. Majors	2	3						

# HN Refereed Professional Publications

## 2008

### Professional Journal Articles

- Satyabrata Das, Dingbo Lin, Snehalata Jena, Aibin Shi, Srinivas Battina, Duy H Hua, Rachel Allbaugh, and Dolores J Takemoto. (2008). Protection of retinal cells from ischemia by a novel gap junction inhibitor. *Biochem Biophys Res Commun*, 373: 504-508
- Michael Barnett, Dingbo Lin, Vladimir Akoyev, Lloyd Willard, and Dolores J Takemoto. (2008). Protein kinase C epsilon activates lens mitochondrial cytochrome C oxidase Subunit IV during hypoxia. *Exp Eye Res*, 86:226-234
- Sandra B. Procter, PhD, RD, and Carol Ann Holcomb, PhD, CHES. (2008). Breastfeeding Duration and Childhood Overweight Among Low-Income Children in Kansas, 1998-2002. *Am J Public Health*. 98(1).
- Weiqun Wang, Allan Ayella, Yu Jiang, Ping Ouyang, and Hongyan Qu. (2008). Chapter 16 Wheat Lignans: Promising Cancer Preventive Agents. *Wheat Antioxidants*. 264-272. John Wiley & Sons, Inc. Hoboken, NJ.
- Jane Mertz Garcia, PhD,<sup>1</sup> Edgar Chambers IV, PhD<sup>2</sup>, Ziad Matta, MA,<sup>2</sup> and Megan Clark, MS<sup>1</sup>. (2008). Serving Temperature Viscosity Measurements of Nectar- and Honey-Thick Liquids. *Dysphagia*. 23:65-75.
- Delores Chambers, Jeehyun Lee, and Edgar Chambers IV. (2008). Descriptive Sensory Analysis of Samples of Green Tea From Around World. Proceedings of the 3<sup>rd</sup> International Conference on O-CHA(Tea) Culture and Science. MI-P-104. pp. 1-2.
- Jeehyun Lee<sup>1</sup>, Delores Chambers<sup>1</sup>, Edgar Chambers IV<sup>1</sup>, Soonsil Chun<sup>2</sup>, and Chintana Oupadissakoon<sup>3</sup>. (2008). Consumer Acceptability of Green Tea in Three Countries. Proceedings of the 3<sup>rd</sup> International Conference on O-CHA(Tea) Culture and Science. MI-P-103. pp. 1-2.
- Jeehyun Lee<sup>1</sup>, Delores Chambers<sup>1</sup>, Koushik Adhikari<sup>1</sup>, and Youngmo Yoon<sup>2</sup>. (2008). Flavor and Volatile Compound Changes of Green Tea When Infused Multiple Times. Proceedings of the 3<sup>rd</sup> International Conference on O-CHA(Tea) Culture and Science. Pr-P-116. pp. 1-2.
- H. Gajula, S. Alavi, K. Adhikari, and T. Herald. (2008). Precooked Bran-Enriched Wheat Flour Using Extrusion: Dietary Fiber Profile and Sensory Characteristics. *J Food Sci*. Vol. 00, Nr. 0, pp. S1-S7.
- Richard Linhardt, Koushik Adhikari, Ingolf Grün, and Steve Welker. (2008). Consumer Sensory Test of Seven Varieties of Rice in Osh (Pilaf) at Four Different Locations in Uzbekistan. *J Food Qual*, 31: 394-401.
- Tandalayo Kidd, Elaine Johannes, Larry Simonson, Denis Medeiros. (2008). KNACK Online: An Evidence-based Web Site Developed to Address Adolescent Obesity. *J Nutr Educ Behav*, 40: 189-190.
- Annika Linde, Gerald H. Lushington, Frank Blecha and Tonatiuh Melgarejo. (2008). Rat Cardiomyocytes Express a Classical Epithelial Beta-Defensin. *Am J Anim Vet Sci*, 3(1): 1-6.
- Julie Budke, Jane Mertz Garcia, PhD; Edgar Chambers IV, PhD. (2008). Comparisons of Thickened Beverages Using Line Spread Measurements. *J Am Diet Assoc*, Vol. 108, Nr. 9, pp.1532-1535.
- Pairin Hongsoongnern, Edgar Chambers IV. (2008) A Lexicon for Green Odor or Flavor and Characteristics of Chemicals Associated with Green. *J Sens Stud*, 23: 205-221.
- Pairin Hongsoongnern, Edgar Chambers IV. (2008) A Lexicon for Texture and Flavor Characteristics of Fresh and Processed Tomatoes. *J Sens Stud*, 23: 583-599.
- Martin Talavera-Bianchi, Delores H. Chambers. (2008) Simplified Lexicon to Describe Flavor Characteristics of Western European Cheeses. *J Sens Stud*, 23: 468-484.

- Jennifer Akers, Patricia Payne, Carol Ann Holcomb, Bonnie Rush, David Renter, Manuel H. Moro, Lisa C. Freeman (2008) Public-Health Education at Kansas State University. *J Vet Med Educ*, 35(2): 187-193.
- Denis M. Medeiros. (2008) Assessing mitochondria biogenesis. *Methods*. 46: 288-294
- Brian L. Lindshield, Jennifer L. King, Adrian Wyss, Regina Goralczyk, Chi-Hua Lu, Nikki A. Ford, and John W. Erdman Jr. (2008) Lycopene biodistribution is altered in 15, 15'-Carotenoid Monooxygenase Knockout Mice. *J Nutr*, 138: 2367-2371.
- Sunghun Park, Mark P. Elless, Jungeun Park, Alicia Jenkins, Wansang Lim, Edgar Chambers IV, and Kendel D. Hirschi. (2008) Sensory analysis of calcium-biofortified lettuce. *Plant Biotechnol J*.
- Yu Jiang and Weiqun Wang. (2008) Potential mechanisms of cancer prevention by weight control. *Biophys Rev Lett*, Vol. 3 No. 3: 421-437.
- Satyabrata Das, Dingbo Lin, Snehalata Jena, Aibin Shi, Srinivas Battina, Duy H. Hua, Rachel Allbaugh, Dolores J. Takemoto. (2008) Protection of retinal cells from ischemia by a novel gap junction inhibitor. *Biochem Biophys Res Commun*, Vol. 373 pp. 504-508.
- Karen J. Coleman, Karly S. Geller, Richard R. Rosenkranz, David A. Dzewaltowski. (2008) Physical Activity and Healthy Eating in the After-School Environment. *J Sch Health*, Vol. 78 No. 12 pp. 633-640.
- Richard R. Rosenkranz, David A. Dzewaltowski. (2008) Model of the home food environment pertaining to childhood obesity. *Nutr Rev*, Vol. 66(3): 123-140.
- Sin-Ae Park, Candice Shoemaker, Mark Haub. (2008) Observing gardening posture and motion of older gardeners for health benefits and risks. *HortScience*. 43(4): 1171.
- Sin-Ae Park, Candice Shoemaker, Mark Haub. (2008) Gardening as a physical activity for health in older adults. *HortScience*. 43(4): 1152-1153.
- April J. Stull, John P. Thyfault, Mark D. Haub, Richard E. Ostlund Jr., Wayne W. Campbell. (2008) Relationships between urinary inositol excretions and whole body glucose tolerance and skeletal muscle insulin receptor phosphorylation. *Metabolism*. 57(11): 1545-1551.
- Sin-Ae Park, Candice A. Shoemaker, Mark D. Haub. (2008) A preliminary investigation on exercise intensities of gardening tasks in older adults. *Percept Mot Skills*, 107: 974-980.
- Mark Haub. (2008) Sports Nutrition: Energy Metabolism and Exercise. *J Am Med Assoc*, 299(19): 2330-2331.
- Sin-Ae Park, Candice Shoemaker, Mark Haub. (2008) Can older gardeners meet the physical activity recommendation through gardening? *Horticulture Technology*. 18: 639-643.
- J.W. Stephens, M.E. Dikeman, J.A. Unruh, M.D. Haub, M.D. Tokach, S.S. Dritz. (2008) Effects of oral administration of sodium citrate or acetate to pigs on blood parameters, postmortem glycolysis, muscle pH decline, and pork quality attributes. *J Anim Sci*, 86(7): 1669-1677.
- Luis Tinoco, Alberto Barreras-Serrano, Gilberto Lopez-Valencia, Alma Rossana Tamaya-Sosa, Hector Quiroz-Romero, Tonatiuh Melgarejo. (2008) Seroprevalence of larva migrans of *Toxocara canis* and evaluation of associated risk factors among children in a Mexico-U.S. border region. *J Appl Res Vet Med*, 6(2): 130-136.
- A. Linde, C. Ross, E. Davis, L. Dib, F. Blecha, T. Melgarejo. (2008) Innate Immunity and Host Defense Peptides: Role in Veterinary Medicine. *J Vet Intern Med*, 22: 247-265.
- X. Zhao, J.R. Nechols, K.A. Williams, W. Wang, E.E. Carey. (2008) Comparison of phenolics in organically and conventionally grown Pac Choi (*Brassica rapa* L. *Chinensis* group). *J Sci Food Agric*, 89(6): 940-946.
- Yunong Zhang, Adam Snider, Lloyd Willard, Dolores J. Takemoto, Dingbo Lin. (2008) Loss of Purkinje cells in the PKCgamma H101Y transgenic mouse. *Biochem Biophys Res Commun*, 378: 524-528. (Epub 2008 Dec 3)

M.M. Lopez Osornio, G. Hough, A. Salvador, E. Chambers IV, S. McGraw, S. Fiszman. (2008) Beef's optimum internal cooking temperature as seen by consumers from different countries. *Food Qual Prefer*, 19(1): 12-20.

Linda Yarrow, Valentina Remig, Mary Meck Higgins. (2008) Food Safety Awareness: Concerns, Practices, and Openness to Change of College Students with Health and Non-Health Majors. *Food Protection Trends*. 28(7): 585-591.

Kuei-I Lee, Valentina Remig, Carol Shanklin. (2008) Competencies and Skills Required for Foodservice Directors in Assisted Living Facilities. *Journal of Foodservice Management and Education*. Vol. 3 [www.nacufs.org](http://www.nacufs.org)

D.A. Dzewaltowski, G.J. Ryan, R.R. Rosenkranz. (2008) Parental Bonding May Moderate the Relationship between Parent Physical Activity and Youth Physical Activity After School. *Psychol Sport Exerc*, 9(6): 848-854.

S.G. Trost, R.R. Rosenkranz, D.A. Dzewaltowski. (2008) Physical Activity Levels Among Children Attending After-School Programs. *Med Sci Sports Exerc*, 40(4): 622-629.

Ling Lai, Teresa C. Leone, Christoph Zechner, Paul J. Schaeffer, Sean M. Kelly, Daniel P. Flanagan, Denis M. Medeiros, Attila Kovacs, Daniel P. Kelly. (2008) Transcriptional coactivators PGC-1 $\alpha$  and PGC-1 $\beta$  control overlapping programs required for perinatal maturation of the heart. *Genes Dev*, 22:1948-1961.