

NEWSLETTER

Fall 2011



GREETING FROM THE DEPARTMENT HEAD

Hi Everyone,

This year has gone by quickly with many changes. In August, our past Dean, Dr. Eugene Sander, assumed the University presidency and we welcomed our new Dean, Dr. Shane Burgess. We are so fortunate to have both President Sander and Dean Burgess. Many of you met Dean Burgess while he traveled the State extensively in the early days of his administration. If you have not met him, you will really enjoy doing so when you have the opportunity. In addition to these changes, Associate Deans Christensen and Cox retired and Vice Dean Kaltenbach will retire this month. We congratulate them and thank them for their great service to the College of Agriculture & Life Sciences and the University. A search for each of the Associate Dean positions has been underway and we anticipate welcoming the new Associate Deans after the beginning of the new year.

The Department continues to prosper. In the past three years, our undergraduate enrollments have nearly doubled, our graduate program, administered by the Department, remains strong and cross-disciplinary, and our investigators continue to obtain grants despite an abysmal climate for federal funding. We also fully launched our online education program, *Online To You*, this past summer. The revenues from this effort will help our Department remain strong for the future.

We surveyed several alumni for information on their career positions. The returns you sent were very helpful to us and we will do this again in the spring. THANK YOU!

It does not seem possible that we are so near to celebrating the holidays that will bring in 2012. At this time, I think of the many friends that we have in our alumni. Alumni, we need you!! Many of you contacted me this past year and what a pure pleasure it was to correspond with you. I had two very special letters from alumni that I taught in the past. How wonderful is that!! If you have not been in touch with us, please update us on your whereabouts and doings. We hope to have a Facebook or LinkedIn page for alumni exchange in the near future.

With this letter comes all of my very best wishes to each of you for a wonderful Holiday Season and a very Happy New Year!

Joy



WELCOME AND PROMOTIONS

Dharti Bhakta joined Joy Winzerling's laboratory as a Graduate Research Assistant.

Welcome to **Melanie Hingle, Ph.D., R.D.**, Research Assistant Professor to the Department.

Jennifer Ravia, M.S., R.D., Coordinator, Web Communications, Instruction & Technology.

Jennifer A. Teske, Ph.D., joined our Department as an Assistant Professor.

Alma Verdugo, Office Specialist for the Department main office.

NEW GRANTS

Statewide Instructional Technology Project
Investigator: **Melisa Page**
Funded by: Pima County School Superintendents

Mechanistic and Translational Studies of the Inflammatory Response in Pancreatic Cancer
Investigator: **Emmanuelle Meuillet**
Funded by: The Hirschberg Foundation

Research Frontiers in Nutritional Sciences Conference
Investigator: **Donato Romagnolo**
Funded by: USDA/AFRI

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PUBLICATIONS

HONGU ET AL.

Dietary Assessment Tools Using Mobile Technology. (2011) *Topics in Clinical Nutrition*. 26(4):300-311.

Follow-up Evaluation to Determine Short-Term Effectiveness of a Nutrition Education Program in a Primarily Latino Population. (2011) *The Forum for Family and Consumer Issues*. 16 (1). Available online at: <http://ncsu.edu/ffci/publications/2011/v16-n1-2011-spring/Mcdonald-kranch-hongu.php>.

S. GOING ET AL. AND L. HOUTKOOPER ET AL.

Integrating Nutrition and Physical Activity Education into Elementary Schools Serving Low-Income Families. (2011) *Amer. College of Sports Medicine Health and Fitness Journal*. 15(5):8-16.

M. HINGLE ET AL.

A Model of Goal Directed Vegetable Parenting Practices. (2011) *Appetite*. Accepted.

K. LIMESAND ET AL.

Salivary Gland Hypofunction and Xerostomia in Head and Neck Radiation Patients. (2011) *JNCI Monograph*. Accepted.

E. MEUILLET ET AL.

Recent Development of Anticancer Therapeutics Targeting the Akt Pathway. (2011) *Recent Patents on Anti-Cancer Drug Discovery*. 6 (1):146-59.

Identification and Development of mPGES-1 Inhibitors: Where we are at? (2011) *Future Medicinal Chemistry*. 3(15):1909-34.

Identification of a Novel Class of mPGES-1 Inhibitor With Anti-Tumor Activity in Colorectal and Lung Cancer Models. (2011) *Invest. New Drugs*. <http://www.ncbi.nlm.nih.gov/pubmed/21931968>

S. MISNER ET AL.

Individual and Family Correlates of Calcium-Rich Food Intake Among Parents of Early Adolescent Children. (2011) *Journal of the American Dietetic Association*. 111:376-384.

Development and Evaluation of a Tool to Identify Parental Psychosocial Factors Related to Consumption of Calcium-Rich Foods of Their Early Adolescent Children. (2011) *BMC Pediatrics*. Submitted.

Dietary Sources of Calcium Among Asian, Hispanic and Non-Hispanic White Parents and Early Adolescent Children by Parent Place of Birth. (2011) *Appetite*. Submitted.

D. ROMAGNOLO ET AL. AND O. SELMIN ET AL.

BRCA-1 Promoter Hypermethylation and Silencing Induced by the Aromatic Hydrocarbon Receptor-ligand TCDD are Prevented by Resveratrol in MCF-7 Cells. (2011) *J of Nutr. Bioch*. In Press.

Opportunities and Challenges for Nutritional Proteomics in Cancer Prevention. (2011) *Journal of Nutrition*. Accepted.

C. THOMSON ET AL.

Increasing the Vegetable Intake Dose is Associated With a Rise in Plasma Carotenoids Without Modifying Oxidative Stress or Inflammation in Overweight or Obese Postmenopausal Women. (2011) *Journal of Nutrition*. 141(10):1827-33. [PMID: 21865569].

A Review of Evidence-Based Strategies to Treat Obesity in Adults. (2011) *Nutrition in Clinical Practice*. 26(5):512-525.

A Systematic Review of Behavioral Interventions to Promote Intake of Fruits and Vegetables. (2011) *Journal of the American Dietetic Association*. 111:1523-1535.

Evaluation and Comparison of Food Records, Recalls and Frequencies for Energy and Protein Assessment Using Recovery Biomarkers. (2011) *Am Journal of Epidemiol*. 174(5):591-603. [PMID: 21765003].

Evaluations of 25-Hydroxyvitamin D Quantification Using a Commercial HPLC Kit Method. (2011) *Br J Biomed Sci*. 68(2):86-91. [PMID: 21706920].

Racial Differences in Colorectal Cancer Incidence and Mortality in the Women's Health Initiative. (2011) *Cancer Epidemiol Biomarkers Prev*. 20(7):1368-78. [PMID: 21602308].

Physical Activity and Survival in Postmenopausal Women With Breast Cancer: Results From the Women's Health Initiative. (2011) *Cancer Prev Res*. 4(4):522-529. [PMID: 21464032].

Dietary Intake, Supplement Use, and Survival Among Women Diagnosed With Early Stage Breast Cancer. (2011) *Nutr Cancer*. 63(3):327-333. [PMID: 21391124].

Improvement in Self-Reported Physical Health Predicts Longer Survival Among Women With a History of Breast Cancer. (2011) *Breast Cancer Res Treat*. 127(2):541-547. [PMID: 21042931].

Soy Food Consumption and Breast Cancer Prognosis. (2011) *Cancer Epidemiol Biomarkers Prev*. 20:854-858. [PMID: 21357380].

J. WINZERLING ET AL.

Insect Transferrins: Multifunctional Proteins. (2011) *Biochim Biophys Acta*. Jul 23. [Epub ahead of print]

Bacterial Recognition of Thermal Glycation Products Derived from Procine Serum Albumin with Lactose. (2011) *Acta Biochimica Polonica*, 58: 95-100.



SAVE THE DATE!

2012 Research Frontiers in Nutritional Sciences Conference

"The Obesogenic Environment: Behavior, Biology and Policy"

February 29th - March 1st, 2012
University of Arizona Student Union Grand Ballroom

Speakers include:

- Dr. Johanna Dwyer, National Institutes of Health (Keynote Speaker)
- Dr. Paul Coates, National Institutes of Health
- Dr. Michele Forman, M.D. Anderson Cancer Center
- Dr. Stephen Hursting, M.D. Anderson Cancer Center
- Dr. Walter Willett, Harvard School of Public Health
- Dr. Dale Kunkel, University of Arizona
- Dr. James Sallis, University of Arizona
- Dr. Janet Funk, University of Arizona
- Dr. Sharon Ross, National Cancer Institute
- Dr. Adrienne Bendich, Consultant
- Dr. Rafael Perez-Escamilla, Yale School of Public Health
- Cathy Nonas, New York City Dept. of Health and Mental Hygiene

Program is approved for 9.5 CPEUs by the Commission on Dietetic Registration

Registration

Advanced Registration: February 1, 2012

Professional \$175 (after deadline \$200)

Postdoc and Student \$75

Poster Submission Deadline: February 1, 2012

For more information contact Theresa Spicer at: 520-621-7126 or tspicer@ag.arizona.edu

<http://cals.arizona.edu/nutrition-conference/>

PRESENTATIONS, SEMINARS AND CONFERENCES

DR. HONGU

Invited Presentation: "Program that Works: Walking Together for 10 Years!" The 77th National Extension Association of Family & Consumer Sciences Annual Session & Exhibits, Albuquerque, NM, September, 2011.



DR. MEUILLET

Invited Presentations: "Targeting PH domains: A Novel Therapeutic Strategy for the Prevention and Treatment of Cancer and Cancer Metastasis." Institut de Recherche sur le Cancer de Montpellier, Montpellier, France, and the University Paul Sabatier, Toulouse, France, May, 2011.

DR. MISNER

Invited Presentation: "How to Motivate Parents to Promote Calcium Rich Foods Among Early Adolescents." W-2003 Multi-State Meeting, Corvallis, OR, October, 2011.

Invited Presentation: NC1169 EFNEP Related Research, Program Evaluation and Outreach Multi-State meeting, Lincoln, NE, October, 2011.

Invited Participation: Dr. Misner was invited to join the prestigious Journal Committee in the Society of Nutrition Education and Behavior this summer and was elected Secretary for the group.

Invited Participation: Dr. Misner was also selected to participate in the Conference Planning Committee for the National EFNEP Conference in Feb, 2012 and she also participated on the EFNEP Youth Evaluation team to gather questions for the future national on-line reporting system.

DR. ROMAGNOLO AND DR. SELMIN

Poster Presentation: "Epigenetics of BRCA-1 and Breast Cancer." Era of Hope Breast Cancer Research meeting, U.S. Department of Defense, Orlando, FL, August, 2011.

Poster Presentation: "BRCA-1 Promoter Hypermethylation Induced by Ligands of the Aromatic Hydrocarbon Receptor." Meeting of the American Institute for Cancer Research, Washington, D.C., November, 2011.

Poster Presentation: "Preventing Breast Cancer Gene Promoter Hypermethylation With the Grape Phytoalexin Compound Resveratrol." College of Medicine Frontiers in Biomedical Research, The University of Arizona, Tucson, AZ, November, 2011

DR. THOMSON

Invited Presentation: "Over the Counter Dietary Supplements." ADA Weight Management, Williamsburg, VA, October, 2011.

Invited Presentation: "Dietary Supplements and Weight Management." ADA Weight Management, Minneapolis, MN, October, 2011.

Conferences attended: The Obesity Society meeting, Orlando, FL., October, 2011 and Women's Health Initiative PI meeting, Washington, DC. November, 2011.

NSC SEMINARS

Dr. Nobuko (Kay) Hongu, Assistant Specialist, Nutrition and Physical Activity Extension Specialist, Department of Nutritional Sciences. "Walk Across Arizona: Walking Together for 10 years!"

Dr. Lynn Joens, Professor, Department of Veterinary Sciences & Microbiology, University of Arizona. "Oysters: Nutrition With Added Physiological Excitement."

Dr. John Konhilas, Assistant Professor, Department of Physiology, University of Arizona. "Diet, Disease, Exercise, and a Little Bit of Sex: The Impact on Cardiac Adaptation."

Dr. Jessica Miller, Postdoctoral Research Associate, Arizona Cancer Center, University of Arizona. "Application of Metabolomics to Chemoprevention Research."

Dr. Patricia Thompson, Associate Professor, Cellular & Molecular Medicine, University of Arizona. "Bile Acids and Colorectal Cancer, What Have we Learned?"

AWARDS, NOTABLES, AND IN THE NEWS

Congratulations to **Kelly Jackson** who was one of three recipients who received the Recognized Young Dietitian of the Year Award from the American Dietetics Association.

Linda Houtkooper was selected to be a member of the Science Board for the President's Council on Fitness, Sports and Nutrition. She was also selected to be a member of the Executive Advisory Committee for "the Next 25" for the University of Arizona.

Scottie Misner, Team Leader and The Supplemental Nutrition Assistance - Education Program Team (SNAP-Ed) received the 2011 College of Agriculture & Life Sciences Outstanding Team Award.



Donato Romagnolo was invited by the Medical Nutrition Council and the Nutrition Science Council of the American Society for Nutrition to Chair the 2012 Symposium on "Nutritional Regulation of Epigenetic Changes."

Donato Romagnolo was invited to serve as a scientific reviewer for the American Institute for Cancer Research Grant Program, Washington, D.C. He was also invited to serve as a member of the Internal Advisory Board for the NAU/UA Partnership for Native American Cancer Prevention Program.

Congratulations to **Theresa Spicer** who received the College of Agriculture & Life Sciences Second Quarter Outstanding Staff Award.



Congratulations to **Cynthia Thomson** who received the Abbott Nutrition Award in Women's Health from the American Dietetic Association. This award is given to recognize dietitians who make significant contributions to the importance of nutrition in women's health.

Cynthia Thomson was also awarded the 2011 American Medical Writers Association Book Awards: 1st Place, Best of the Best for Non-fiction medical writing for the *American Cancer Society's Complete Guide to Nutrition*.

GRADUATE DEGREES AND AWARDS



Doctors of Philosophy



Fatimah Yousef

Fatimah will be working in a postdoctoral position at King Abdulaziz University, to measure serum 25(OH)D among Saudi population in relation to bone health.

Masters of Science

Lindsey Diemert

Awards and Notables

The Oncology Nutrition Dietetic Practice Group (ON DPG) selected **Gayle McCartney** to receive the 2011 ON DPG Award for Excellence in Oncology Nutrition Research for an abstract she submitted for presentation at the American Dietetic Associate Food & Nutrition Conference and Exhibition.

Congratulations to **Ashley Vargas** who was selected as the 2011 recipient of the \$3,000.00 Member Seed Grant from the Research Dietary Practice Group for her project on the relationship between diet and cancer.

OTHER PRESENTATIONS

JENNIFER REEVES

Invited Presentations: "Winning Grants and Funding Opportunities to Expand Coordinated School Health" and "Breakfast with the Eggsperts." Integrating Nutrition and Physical Activity on a Daily Basis with Choosing Healthy Habits Planners. New York, NY. July, 2011.

Jennifer and the AZ State Coordinated School Health Team are developing the model policies guidebook for AZ Urban Physical Education.

UNDERGRADUATE STUDENT NEWS

Congratulations to **Zachary Conley** who was accepted into the Undergraduate Biology Research Program. Zachary also earned an Honors College Undergraduate Research Grant

Nichole Ashley Greene was accepted at Sodexo NY/Philadelphia Area-Medical Nutrition Therapy-Philadelphia Area Dietetic Internship in Fall, 2011. She is one of 14 interns in the NY area and 12 interns in the Philadelphia area.

Margeaux Krieger, Dezi Abeyta, and **Josh Siegleman** represented the Nutritional Sciences Department at the First Annual Health Professions College Fair at the Arizona Health Sciences Center, March 2011.

Chelsea Page is an undergraduate student who has been selected for the NASA Space Grant Internship Program for 2011-2012. She will be working on nutrition and physical activity research projects with her mentors, Dr. Kay Hongu (Department of Nutritional Sciences) and Dr. Barron Orr (Office of Arid Lands Studies).

Peter Raisanen was recognized as the Outstanding Graduating Senior in Nutritional Sciences for December 2011. Congratulations Peter!



Nutritional Sciences Club



The undergraduate Nutritional Sciences Club has been busy this year with events on and off campus, including organizing food drives and hosting a cooking demonstration at the Community Food Bank of Southern Arizona. The group was recently featured in an Arizona Daily Wildcat article which highlighted the group's efforts to increase awareness about nutrition issues in the community. For more details about the club, it's

goals and activities read the original Wildcat article at : http://www.wildcat.arizona.edu/index.php/article/2011/11/nutrition_comes_to_fruition

ALUMNI UPDATE - KIM KRUMHAR, PH.D., CNS



Kim Krumhar earned his Ph.D. in Nutritional Sciences at the University of Arizona in 1985 studying food protein chemistry under the direction of the late Dr. James W. Berry. After graduating, he accepted a post-doctoral appointment in the Department of Applied Biological Sciences at Massachusetts Institute of Technology in Cambridge, MA. After a year of postdoctoral work, he accepted an offer to join the Pepsico Organization in Texas as a Research Scientist developing food and nutritional products. In later years he moved into senior leadership positions at Nestle, Metagenics and Herbalife International. While at Herbalife he led and managed new product R&D in an exciting and fast moving nutritional products industry environment of rapid growth due to growing concern over the major chronic health issues of our day - obesity, cardiovascular disease, diabetes, women's health, and the challenges of providing appropriate nutrition for a rapidly aging population.

Most recently, Kim has rejoined the Nestle R&D organization in Solon, Ohio. He leads various nutrition-related initiatives including strategy development for Nestle's programs in Nutrition, Health and Wellness; new ingredient and technology development, investigation of new health claims and development of products and programs for Nestle's healthier-eating and weight maintenance products. This includes Jenny Craig, Lean Cuisine, Stouffers, Buitoni and other portion-controlled and prepared foods for managing weight and providing the right balance between indulgence and calorie control.

Kim is grateful for the training and mentorship received in his years at the University of Arizona, and for the inspiration and leadership of its faculty and staff who were instrumental in his early career and success as a scientist and professional in the field of Nutrition.

This newsletter is also available online at: <http://nutrition.arizona.edu>. If you would like to receive our newsletter via email, please contact Theresa Spicer at 621-7126 or email tspicer@ag.arizona.edu. The University of Arizona is an equal opportunity, affirmative action institution. The University does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, veteran status, or sexual orientation in its programs and activities.