NOTE FROM THE DIRECTOR

It was a remarkable and exciting year for the Division of Nutritional Sciences and I am proud to share our accomplishments as well as the achievements of our faculty, graduate students and alumni.

Faculty and students in the Division were well recognized for their exceptional research and teaching accomplishments. Most significantly, Dr. David Baker was elected to the National Academy of Sciences. This highly prestigious honor is a fitting recognition of Dr. Baker’s career accomplishments. He was one of 72 new members of the National Academy elected this year. There are ~ 2000 members of the National Academy of Sciences in the 30 scientific disciplines the Academy recognizes. Dr. Baker joins 46 other members in the "Animal, Nutritional, and Applied Microbial Sciences" scientific discipline.

I am particularly gratified to report that the Division of Nutritional Sciences was selected as the 2005 recipient of the highly prestigious 5-year $500,000 Freedom to Discover Nutrition Grant from Bristol-Myers Squibb. The grant will support research conducted by a multidisciplinary group of Nutritional Sciences faculty members on the topic of “Defining the nutritional requirements of the developing intestinal ecosystem”. The Division also received another USDA National Needs grant in April 2005. The grant will support two predoctoral fellows to conduct research in the area of “Soy and Human Health”. Preceptors on the grant include faculty from the Colleges of ACES, Applied Life Studies and Veterinary Medicine. Fellowship funding will allow us to recruit the highest quality students to conduct research in this important area.

We welcomed nine students into the Division in the past year. See page 7 for more information on these exceptional individuals. Three new faculty joined the Division during the 2004-2005 academic year (see pages 21-22). These faculty expand our research strengths in the areas of nutritional genomics and the role of exercise and nutrition in disease prevention.

I am pleased to announce that the Division hired a new Project Coordinator, Ms. Armgard Haken. Armgard received her B.S. and M.S. in Biology from the University of Illinois. She was employed in the Agricultural Engineering Department at UIUC and then by Archer Daniels Midland in Decatur, IL prior to accepting the position in the Division. Armgard is assisting with administering the three Division training grants, maintaining the web site, developing marketing materials for the Division and will be taking a larger role in alumni relations and the Division's endowment initiatives in the future. I am grateful to the College of ACES for agreeing to partially support the Project Coordinator position for 3 years. The goal will be for this position to be self-supporting by the end of the 3-year period.

In closing, I would like to acknowledge the contributions of the faculty and students to the program. Without your hard work and dedication, we would not continue to grow and improve each year. Likewise, the support of campus administrators and the guidance of the External Advisory Committee are instrumental to our success. Last, but not least, our alumni. You are doing an exceptional job of advocating for the program through your successful careers and professional accomplishments. Please do not hesitate to contact me at any time (sdonovan@uiuc.edu or 217-333-4177).

Sharon M. Donovan, Ph.D., R.D.
Note from the Director

Division Web Site and Alumni Placement

Nutritional Sciences 411 Memories
External Advisory Committee/Graduate Student Forum

External Advisory Committee Members
External Advisory Committee Reception
Kraft Foods Human Nutrition Endowment
Endowment Fund Giving Opportunities

Welcome New Graduate Students
Recent Graduates
NSGSA 2005 Officers
Margin of Excellence Awards
Fellowship Recipients
2005 Baker and Robinson Awards
2005 Nishida Award
Student Awards and Achievements

2005 Nutrition Symposium
NSGSA Picnic, Quiz Bowl, Holiday Party
NSGSA Faculty Award
New Faculty
Faculty Awards, Achievements, Professional Service
Faculty Research Strides
Faculty Invited Talks
Faculty Personal Achievements
2005 Mars Nutrition Research Council Lectureship
David Baker Elected to National Academy of Sciences
ASNS 2005 Award Recipient
Fall 2004 Seminar and Spring 2005 Seminar
Alumni News & E-mail Addresses
EB05 Reception; Thanks to Ed Ulman!
Photo Gallery from EB 2005

Visit our Web Site for E-mail Addresses of Current Faculty & Students
http://www.nutrsci.uiuc.edu

If you have any comments or suggested improvements for the web site, contact us anytime at nutrsci@uiuc.edu

Visit the Alumni Information section under the “Graduate Students and Alumni” link on the web site to ensure that your information is up-to-date. <http://www.nutrsci.uiuc.edu/students_alumni/alumni_info.cfm>. If the information is incorrect, simply click on the “Contact Us” link at the bottom of the page and e-mail us your current information. Please let us know if you do not want your information included on the web site.

You can also use the “Alumni Update” form to provide new contact information, employment updates or submit newsletter information at any time of the year <http://www.nutrsci.uiuc.edu/students_alumni/alumni_update.html>.

We have posted an “Alumni Outcomes Assessment” form that we ask you to complete and submit on-line <http://www.nutrsci.uiuc.edu/students_alumni/alumni_survey.html>. This information will be used to assist us in program evaluation and improvement. We are requesting that alumni complete the form at 2 and 5 years postgraduation and then at 5 year increments. For example, this year, graduates from 2003, 2000, 1995, 1990...etc, are asked to complete the form. However, alumni are welcome to complete the questionnaire at any time.
The annual Nutritional Sciences External Advisory Committee (EAC) meeting was held on September 7-8, 2005. The graduate students and members of the EAC are provided with the opportunity to interact in private. It is the intention of this EAC/Graduate Student Forum to enable students to receive information regarding options that they may face following graduation, while providing the External Advisory Committee with important feedback from our students that may not be obtainable in other settings. With this in mind, the graduate students are divided into groups that are led in discussion by members of the External Advisory Committee.

This year's topics included:

What steps need to be taken (ie. postdoc) and what other skills (ie. cross-training) should a student prepare for to get the position they desire in academia or industry?

How to balance professional achievement and home life during the process of getting the position desired and after reaching their ultimate goal?

What aspects should one look for in a future employer in regards to pregnancy leave/time off, day care, glass ceiling gender issues, etc?

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The Infamous Jack Sprat Question (and Answer)

For hundreds of Nutritional Sciences students for a quarter of a century, the Infamous Jack Sprat Question was an integral part of Nutritional Sciences 411.

With the retirement of Dr. James L. (Mad Dog) Robinson in 2002, Jack Sprat is no longer part of the course, now renumbered as Nutritional Sciences 511. Accordingly, the answer to the question now can be released.

*Question:*

Jack Sprat could eat no fat.
His wife could eat no lean.
Their son, in protest, starved himself.
Metabolically, what does it all mean?

*Answer:*

Jack isn’t doing all that bad.
His wife’s condition is a bit more sad.
Their son, although he’s still alive,
Needs food soon, or he won’t survive!

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EXTERNAL ADVISORY COMMITTEE/GRADUATE STUDENT FORUM

The annual Nutritional Sciences External Advisory Committee (EAC) meeting was held on September 7-8, 2005. The graduate students and members of the EAC are provided with the opportunity to interact in private. It is the intention of this EAC/Graduate Student Forum to enable students to receive information regarding options that they may face following graduation, while providing the External Advisory Committee with important feedback from our students that may not be obtainable in other settings. With this in mind, the graduate students are divided into groups that are led in discussion by members of the External Advisory Committee.

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How to balance professional achievement and home life during the process of getting the position desired and after reaching their ultimate goal?

What aspects should one look for in a future employer in regards to pregnancy leave/time off, day care, glass ceiling gender issues, etc?
The External Advisory Committee (EAC) is comprised of leaders in industry and academia. This committee assists the Division in our quest to continually improve the quality of our program. This year we welcomed Richard Black, Eric Gugger, Greg Paul and Roger Sunde to the Committee. We would like to acknowledge the contributions of Gail Czarnecki-Maulden, Samual Kahn and Eric Lien who will complete their terms on the Committee this year. Thank you!

Director, Medical and Regulatory Affairs, Ross Products Division, Abbott Laboratories, Columbus, OH.

Vice President, Global Nutrition/Chief Nutrition Officer, Kraft Foods Global, Inc., Glenview, IL.

Research Fellow, Nutrition Sciences, Mead Johnson Nutritionals, Evansville, IN.

**Dr. Gail Czarnecki-Maulden**, Current Term 2000-2006.
Senior Research Nutritionist, Nestle Purina Product Technology Center, St. Louis, MO.

Technology Manager, Nutrition Science, General Mills, Minneapolis, MN.

**Dr. Samuel G. Kahn**, Current Term 2003-2006.
Consultant: Nutrition and International Food Programs, Potomac, MD.

Director, Product Safety & Regulatory Affairs, Personal Health Care, Procter & Gamble, Co., Mason, OH.

**Dr. Gilbert A. Leveille**, Ad Hoc
Senior Consultant, Scientific & Regulatory Affairs, Cargill, Inc., Denville, NJ.

Senior Scientific Advisor, Wyeth Nutrition, Malvern, PA.

**Dr. Luis A. Mejia**, Current Term 2002-2008.
Director, Regulatory and Scientific Affairs, Archer Daniels Midland Company, Decatur, IL.

Global Director, Nutrition Strategy, The Solae Company, St. Louis, MO.

**Dr. Susan M. Potter**, Current Term 2002-2008.
Vice President, Health and Nutrition Sciences, Tate and Lyle, Decatur, IL.

Professor and Chair, Dept Nutritional Sciences, University of Wisconsin, Madison, WI.

The faculty and students thank the Committee members for their valuable contributions to our program.

(not pictured: R. Burns)
A reception for EAC members, faculty, students and administrators was held at Dr. Donovan's home on September 7, 2005.

Presenters at the September 2005 EAC Meeting
Amanda Bergschneider-Newell (M.S. candidate), Kelly Swanson (Assistant Professor), and Jessica Campbell (Ph.D. candidate)

Faculty member Mary Ann Lila and M.D./Ph.D. candidate Tristan Kraft

Committee member Gil Leveille and Emeritus Faculty member Dave Baker

Ph.D. candidates Marcela Cortes, Christina Sherry, Kristin Harris, Committee member Pam Anderson and Ph.D. candidates Marcela Araya-Roldan, Victoria Vieira

Committee members Sue Potter and Eric Gugger and Director Sharon Donovan

Ph.D. candidate Marcela Araya-Roldan, Committee member Eric Gugger, Ph.D. candidates Jessica Campbell, Kristin Harris and Kirstie Canene-Adams

Faculty member Lee Beverly and Committee member Eric Lien
In 2002, Kraft Foods established a $1M endowment in the Division of Nutritional Sciences, which provides funding for undergraduate scholars in the Department of Food Science and Human Nutrition, graduate fellows in the Division, unrestricted support for the Division and a Kraft Endowed Professorship.

In late 2004, the endowment commitment was fulfilled and we are currently in the process of selecting the inaugural holder of the Kraft Professorship.

The Department of Food Science and Human Nutrition selected the following undergraduate students to receive a $2000 Kraft Scholarship for the 2005-06 academic year.

Leslie Selcke is a Junior in Food Science.
Aili Sun is a Junior in Food Science.
Sophia Torres is a Junior in Food Science.

The Division is extremely thankful to Kraft for their generous support of our academic programs and looks forward to our continuing collaborations.

Endowment Fund Giving Opportunities

Thank you to those of you who have supported the Division through contributions to the Endowment Fund and the Annual Fund. Your generosity is greatly appreciated and is providing critical support for our students and programs.

If you have not taken the opportunity to support your alma mater, please consider making that step in 2006. You can donate to our unrestricted Endowment Fund or remember a former professor by donating to the following established accounts:

- Nutritional Sciences Endowment Fund
- David H. Baker Nutrition Scholar Award
- Toshiro Nishida Research Award
- James L. Robinson Nutrition Impact Award
- Willard J. Visek Lectureship

It is easy to make a contribution on-line. On our web site under the "Endowment Fund" tab, you will find a link to allow you to use a credit card. Alternatively, you can send a check to the Division office. Please make the check payable to the "University of Illinois Foundation" and indicate your account preference on the check subject line or in a letter accompanying the check. If you work in industry, please inquire whether your company participates in a matching program. Your donation is tax deductable.

A primary goal is to establish 5 endowed graduate fellowships; we have 2 through the Kraft Endowment. Currently, the Provost will match the interest off the endowed fellowship account so that it only requires $150,000 to endow a named graduate fellowship rather than $300,000. If you or your company would like to consider that option, please contact Dr. Donovan (sdonovan@uiuc.edu).
Summer 2005

Nancy Engelmann, M.S. candidate, B.S. 2005 in Molecular and Cellular Biology, UIUC. *Advised by John Erdman.*

Kristin Reifsteck, M.S. candidate, B.S. 2004 in Dietetics, FSHN, UIUC. *Advised by Kelly Tappenden.*

Emily Tomayko, M.S. candidate, B.S. 2005 in Dietetics, University of Georgia, Athens. *Advised by Ken Wilund.*

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Fall 2005


Ren-Hau Lai, Ph.D. candidate, B.S. 1999 in Civil Engineering, National Central University, Taiwan; M.S. 2002 in Civil Engineering, University of Michigan, Ann Arbor; B.S. 2005 in Traditional Chinese Medicine, Beijing University. *Advised by Elizabeth Jeffery.*


August 2004

Renu Stephen, M.S.  Current Position: Doctoral candidate, Arizona State University, Tempe, AZ.  Advised by Kelly Tappenden.

October 2004

David Albin, Ph.D.  Current Position: Postdoctoral Fellow, USDA Eastern Regional Research Center, Wyndmoor, PA.  Advised by Kelly Tappenden.

Anne Bartholome, Ph.D.  Current Position: Senior Scientist, Novartis Medical Nutrition, St. Louis Park, MN.  Advised by Kelly Tappenden.

Jamie Baum, Ph.D.  Current Position: Postdoctoral Scholar, Cellular & Molecular Physiology, Penn State University College of Medicine, Hershey, PA.  Advised by Don Layman.


December 2004

Brian Berg, Ph.D.  Current Position: Postdoctoral Fellow, Dept of Neurology, Rush University Medical Center, Chicago, IL.  Advised by Rod Johnson.

Kajorn Kitiphongspattana, Ph.D.  Current Position: Postdoctoral Scholar, Dept of Medicine, University of Chicago, IL.  Advised by Rex Gaskins.

Emily Petr, M.S.  Current Position: Dietetic Intern, Vanderbilt University, Nashville, TN.  Advised by John Erdman.


May 2005

2005 Officers

Chair..............................Marcela Araya-Roldan
Treasurer.......................Dolores Doane
Reporter/Secretary..........Gerardo Nava

Co-Chair.......................Christina Sherry
Co-Treasurer...............Denise Walker
Webmaster......................Meredith Barnes

Executive Committee Representative..Tristan Kraft

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**Travel Awards**

The objective of the travel award program is to encourage students to present their research at national and international professional meetings by helping to defray the costs of travel to these meetings.

**Fall 2004**
Aline Andres
Amanda Bergschneider-Newell
Jessica Campbell
Kirstie Canene-Adams
YeWon Cheon
Tristan Kraft
Brian Lindshield

**Spring 2005**
Dolores Doane
Mengyuan Du
Marlene Guillon
Adam Reppert
Susan Zaripheh
Xiangfeng Zhang

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**2005 Research Awards**

The research award provides students with experience preparing research proposals and helps to support high quality research conducted by those students. The primary criterion for selection is the quality of the proposed research.

**Fall 2004**
Pascasie Adedze
Aline Andres
Jessica Campbell
Kirstie Canene-Adams
YeWon Cheon
Cheryl Dikeman
Mengyuan Du

**Spring 2005**
Jessica Hartke
Hyun-Young Koo
Brian Lindshield
Karen Ochonicky
Chad Stroud
Barbara Yudell
Susan Zaripheh
Attention Alumni: If you have internship opportunities available at your company, please let the Division office (nutrsci@uiuc.edu) know so that we can inform our graduate students.

Back Row: Lee Beverly, Adam Reppert, Tory Parker, Brian Lindshield, Meredith Barnes, Christopher Guest
Middle Row: Victoria Vieira, Jennifer Croix, Bianca Maples, Lilly Sueiro
Front Row: Barbara Yudell, Christina Mack, Cheryl Dikeman, Marcela Cortes, Susan Evans

2004-2005 Fellowship Recipients

JBT Fellowship (College of ACES)
Cheryl Dikeman
Brian Lindshield
Tory Parker
Adam Reppert
Barbara Yudell

USDA National Needs Fellowship
Predoctoral
Meredith Barnes
Susan Evans
Layne Norton
Chad Stroud

NIH Fellowship
Predoctoral
Jennifer Croix
Christopher Guest
Bianca Maples
Victoria Vieira
Postdoctoral
Jessica Buchanan
Jason O'Connor

University Fellowship
Amanda Bergschneider-Newell
Katrina Sprengelmeyer

Kraft Human Nutrition Fellowship
Christina Mack
Lilly Sueiro

Fulbright Scholarship
Mina Mojtahedi

Conacyt Scholarship (Mexican Government)
Marcela Cortes
Gerardo Nava

USDA National Needs Fellowship
Predoctoral
Meredith Barnes
Susan Evans
Layne Norton
Chad Stroud

NIH Fellowship
Predoctoral
Jennifer Croix
Christopher Guest
Bianca Maples
Victoria Vieira
Postdoctoral
Jessica Buchanan
Jason O'Connor

University Fellowship
Amanda Bergschneider-Newell
Katrina Sprengelmeyer

Kraft Human Nutrition Fellowship
Christina Mack
Lilly Sueiro

Fulbright Scholarship
Mina Mojtahedi

Conacyt Scholarship (Mexican Government)
Marcela Cortes
Gerardo Nava
On January 19, 2005, the recipients of the Baker and Robinson Graduate Student Awards were announced. The **David H. Baker Nutrition Scholar Award** is given annually to the most outstanding graduate student majoring in Nutritional Sciences at UIUC; and the **James L. Robinson Nutrition Impact Award** is given annually to the graduate student who has made the greatest extracurricular impact on the Division of Nutritional Sciences.

A cash award of $500 is provided to each award recipient and the recipient's name is added to a plaque permanently displayed outside the Division office.
On May 4, 2005, the first recipient of the Nishida Graduate Student Award was announced. The Toshiro Nishida Research Award is given annually to a Nutritional Sciences student at UIUC to help foster professional development by supporting travel to scientific conferences.

This award is supported by a permanent endowment established in the UI Foundation by Dr. Nishida, his former students and friends. The $500 prize is awarded as partial reimbursement for expenses incurred for registration and/or travel to the meeting. The recipient's name is permanently displayed on a plaque outside the Division office.

Meredith Barnes received the first "Toshiro Nishida Research Award"

Toshiro Nishida, Meredith Barnes, and Lee Beverly (advisor)

Student Awards and Achievements

Meredith Barnes received a Graduate College Conference Travel Award to attend the 65th Annual Scientific Session of the American Diabetes Association meeting held July 10-14, 2005 in San Diego, CA where she presented "Rate of decline in blood glucose affects noradrenergic activity in the ventromedial hypothalamus". She was selected for membership in Gamma Sigma Delta Honor Society (Agriculture). Meredith also ran the Coca Cola Zero Rock 'n' Roll Marathon in San Diego, CA on June 5, 2005.


Jennifer Croix was married to Alex Jerez-Roman on January 18, 2005. Congrats!

Dolores Doane serves as the Nutritional Sciences Graduate Student Association (NSGSA) co-treasurer; she became a member of the American Society for Nutrition (ASN) and will serve on the ASN Student Interest Group Executive Committee from 2005-2008. She presented her first abstract/poster at the Experimental Biology meeting in San Diego, CA in April 2005. Dolores was acknowledged on the Incomplete List of Teachers Ranked as Excellent by Their Students for ANSC 362 (Animal Physiology). She trained with Team in Training (through Leukemia Lymphoma Society) for her first marathon and also ran the Coca Cola Zero Rock 'n' Roll Marathon in San Diego, CA on June 5, 2005 in under 5 hours.
Nancy Engelmann received the Hope E. Hopps Award from the Society for In Vitro Biology and the LAS James Scholar Research Award, UIUC. She presented a poster at the In Vitro Biology meetings in June 2005 entitled "Quantitation of in vitro red clover isoflavones".


Kristin Harris and husband Mark welcomed their first child, Owen, on January 31, 2005.


Tristan Kraft received a Summer Research Fellowship from the UIUC College of Medicine and a Thomas Buetow Memorial Fund and Carle Development Foundation Travel Award. He had the following publication: Kraft TFB, Schmidt BM, Knight CTG, Cuendet M, Gills JJ, Kang YH, Pezzuto JM, Seigler DS, Lila MA. (2005) Chemopreventive potential of wild blueberry fruits in multiple stages of carcinogenesis. J Food Sci 70:S159-166.

Karen Ochonicky was the recipient of the Abbott Veterinary Medical Scholars Fellowship for 2004-2005. She presented a talk entitled "Inhibitory effects of human and porcine milk oligosaccharides on sialic acid dependent and sialic acid independent strains of rotavirus" at the 2005 National American Society of Animal Science meetings in Cincinnati, OH.

Tory Parker and his wife Andrea welcomed their son, Judson Tory, on September 7, 2005. He weighed 6 lb 15 oz and was 19.75 inches long. Congratulations!

Karen Plawecki received the 2005 ACES Outstanding Instructor Award from Alpha Zeta. Alpha Zeta is a professional organization of men and women in agriculture and natural resources. It is the oldest fraternal society in agriculture and is dedicated to the highest levels of scholarship, leadership, integrity and service. Congratulations Karen!

Adam Reppert served as Treasurer for the NSGSA in 2004-2005. He received a Society of In Vitro Biology Travel Award to attend the 2005 conference where he presented "Novel isoflavone C- glycosides elicited in pueraria lobata (kudzu) cell and root cultures". Adam completed a Black Rhinoceros Internship at Fossil Rim Wildlife Center, Glen Rose, TX in summer 2005.

Trina Sprengelmeyer is a member of the American Dietetic Association and is a teaching assistant for FSHN 120 for fall 2005. She developed outreach materials for non-traditional diabetes education, which are posted at http://www.urbanext.uiuc.edu/diabetes/index.html.
About the Nutritional Sciences Symposium

Each year the NSGSA organizes a day for students to present their research in the area of nutritional sciences that includes a student competition for both poster and oral presentations. The symposium provides a valuable opportunity for students to present their research to peers and faculty while practicing for presentations at national meetings. Winners of the poster and oral competitions win cash prizes. The symposium featured keynote speaker Dr. Simin Meydani, D.V.M., Ph.D., Associate Director of the USDA Human Nutrition Research Center on Aging at Tufts University, Boston, MA, who presented "Nutritional Modulation of Immune Response in the Aged: Molecular Mechanisms and Clinical Implications".

Oral Presentations

“Total polyphenol content, antioxidant capacity and human DNA topoisomerase inhibition of herbal teas” Amanda Bergschneider-Newell, at left (Advisor: Elvira deMejia)

“A peptide-based diet with a low amount of free amino acids enhances gastrointestinal structure and function in young pigs with a compromised gastrointestinal tract” Bianca Maples, at right (Advisor: Kelly Tappenden)

“Metabolic fate of broccoli-derived glucoraphanin in Fisher 344 rats” Radha Bheemreddy (Dept FSHN), at left (Advisor: Elizabeth Jeffery)

“Influence of age on caspases and Bcl-2 protein in chicken skeletal muscle” Xiangfeng Zhang, at right (Advisor: Jan Novakofsli)
“The influence of liquid chromatography methods on proanthocyanidin structural integrity and bioactivity” Jessica Alwerdt, at left (Advisor: Mary Ann Lila)

“Isoflavones at concentrations present in soy-based infant formula inhibit rotavirus infectivity in vitro” Aline Andres, at right (Advisor: Sharon Donovan)

“Rate of decline in blood glucose affects noradrenergic activity in the ventromedial hypothalamus” Meredith Barnes (Advisor: Lee Beverly)

“Relative bioavailability of phytoene and phytofluene in male Fisher 344 rats” Jessica Campbell (Advisor: John Erdman)

“Effects of dietary lycopene, tomato and broccoli powders on the growth of Dunning R3327-H prostatic adenocarcinoma tumors” Kirstie Canene-Adams (Advisor: John Erdman)

“Orexin A increases glutamate and decreases GABA release in the perifornical region of the lateral hypothalamus” Dolores Doane (Advisor: Lee Beverly)

“Correlations of chemical composition, antioxidant capacity and cellular oxidative stress in extracts from broccoli cultivars” Marian Eberhardt (Dept FSHN) (Advisor: Elizabeth Jeffery)

“A tryptophan-rich diet did not increase brain tryptophan and serotonin of fasted rats” Marlene Guillon (Advisor: Lee Beverly)

“The cloning of the rat CMO II gene and the transcriptional regulation of CMO I and CMO II in tissues of rats fed lycopene for different lengths of time” Susan Zaripheh (Advisor: John Erdman)
Congratulations to the following winners:

Poster 1st Place: Aline Andres, Meredith Barnes, Kirstie Canene-Adams
2nd Place: Jessica Campbell, Dolores Doane, Tristan Kraft

Oral: Bianca Maples (1st Place) and Radha Bheemreddy (2nd Place)

“Chemopreventive activity of *Sambucus nigra* and *S. canadensis* berries” **Tristan Kraft**, above (Advisor: Mary Ann Lila)

“The effect of tomato, broccoli, lycopene, or finasteride treatment on connexin 43, Skp2, or PTEN protein levels in Dunning R-3327-H transplantable prostate tumors” **Brian Lindshield**, above (Advisor: John Erdman)

“Prediction equations overestimate resting metabolic rate of spinal cord injured athletes” **Mina Mojtahedi**, above (Advisor: Ellen Evans)
Graduate students, faculty and their families enjoyed a picnic in Hessel Park on September 29, 2005. The picnic serves as a welcome for new graduate students and faculty to kick off a new academic year.

On left: Dave Baker and Larry Schook  
On right: Frances Schook and Norraine Baker

Jessica and Jon Campbell

On left: Tristan Kraft, Barbara Yudell and Chris Guest  
On right: Nancy Engelmann

On left: Owen and Mark Harris  
On right: Kristin Harris

Kirstie and Dave Adams and Brian Lindshield
WINNING TEAM

Team Swanson
Kristin Harris, Xiangfeng Zhang, Dr. Kelly Swanson, Emily Tomayko and Barbara Yudell

Team Beverly
Amanda Bergschneider-Newell, Tory Parker, Dr. Lee Beverly, Jennifer King and Tristan Kraft

Team Wallig
Jessica Campbell, Adam Reppert, Dr. Matt Wallig, Yan Gao and Meredith Barnes

Team Wilund
Brian Lindshield, Keng-I Lin, Dr. Ken Wilund, Victoria Vieira and Marcela Cortes

Master of Ceremonies and Quiz Bowl Judges
Mary Ann Lila (MC) and Judges Manabu Nakamura and Jim Robinson
HAPPY HOLIDAYS FROM THE NSGSA

Each year, NSGSA selects an organization from the Champaign area to assist during the holiday season. This year, they selected “The Center for Women in Transition”
Door prizes went to Dr. Garrow, Laura Feeney, Linda Barenthin and Mark, Kristin and Owen Harris

Jackie, John and Edie Erdman

Elvira deMejia and Amanda Bergschneider-Newell

Wesley, Dayton, Jennifer and Lianna King

Adam Reppert, Meredith Barnes, Dolores Doane and Tristan Kraft

Norraine and David Baker

Don and Ian Wallace, Sharon Donovan and Tory Wallace

Theresa and Mark Kuhlenschmidt
May 2005

Kimberly A. Huey, Ph.D.
Assistant Professor
Department of Kinesiology
College of Applied Life Studies (ALS)

Research Interests: Cellular adaptations occurring in skeletal muscle in response to changes in both loading and neural activation.

We study various in vivo and in vitro models of increased loading such as muscle stretch and models of reduced muscle activation such as denervation and spinal cord injury. One line of research has utilized in vivo gene injection into rat skeletal muscle to study regulation of myosin heavy chain (MHC) gene expression under different loading conditions. Myosin is one of the major contractile proteins in skeletal muscle and provides the majority of functional diversity among muscles; thus, changes in MHC gene expression ultimately change the contractile properties of the muscle. Specifically, adult rat skeletal muscle expresses one slow MHC isoform (Type I) and 3 fast MHC isoforms (Types IIa, IIx, and IIb). Past work has characterized important elements in the slow type I MHC gene promoter that regulate its expression in response to chronic muscle inactivity with spinal cord injury or denervation. Future work in this area includes investigating how anabolic agents impact Type I MHC gene regulation in denervated muscle, thus, providing insight into novel therapies to prevent muscle atrophy during sustained disuse. Recent work has focused on the role of small heat shock proteins (HSP) in skeletal muscle adaptation to alterations in loading and activation. Ongoing studies are investigating changes in the expression and phosphorylation of Hsp25 and Hsp20 in response to increased or decreased muscle loading, in vivo. Currently, we are studying modulation of Hsp25 expression and phosphorylation in rat hindlimb muscles functionally overloaded by synergist ablation. These experiments have provided the physiological basis for experiments utilizing in vitro stretch (or shortening) to directly study signaling pathways involving Hsp25 and Hsp20 and their effects on muscle mass and function. Studies also are planned to investigate how the interaction between pro-inflammatory cytokines (e.g. tumor necrosis factor alpha) and HSPs may contribute to the loss of muscle mass associated with high levels of cytokines, such as occurs with aging or disease. Overall, our research has implications in several areas such as the benefits of exercise and training and the effects of aging and inactivity on our muscles.
**May 2005**

**Kelly S. Swanson, Ph.D.**  
Assistant Professor  
Department of Animal Sciences  
College of Agricultural, Consumer and Environmental Sciences (ACES)

**Research Interests:** Comparative nutrition; companion animal nutrition; nutritional genomics; obesity and diabetes; prebiotics; intestinal microbiota and disease.

Our research is focused on evaluating the impact of nutrients on the prevention and (or) treatment of various disease states. While companion animals are often the focus of our research, comparing responses across species also is of interest. Therefore, rodent, swine and human experiments also commonly are performed. One primary research aim of our lab is to study the effects of diet and age on intestinal microbiota abundance and activity. In addition to microbial plating methods, denaturing gradient gel electrophoresis (DGGE) and qRT-PCR are used. By using DNA microarrays, qRT-PCR, and immunohistochemistry, another primary objective is to identify the impact of specific nutrients and subsequent changes in intestinal microbiota on gene and protein profiles of intestinal tissue. Similar molecular techniques are used to study obesity and type 2 diabetes, identifying diet and age effects on gene expression and protein abundance in liver, skeletal muscle and adipose tissue. By using these techniques, we hope to identify genes and (or) proteins that are involved in disease pathogenesis that may be used in the development of prevention and treatment strategies.

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**May 2005**

**Kenneth R. Wilund, Ph.D.**  
Assistant Professor  
Department of Kinesiology  
College of ALS

**Research Interests:** The effect of exercise training and dietary modifications on diseases associated with abnormal cholesterol metabolism.

My laboratory investigates the effect of endurance exercise training on the development of cardiovascular disease and cholesterol gallstones in mouse models of these diseases. We also assess the impact of endurance exercise training and dietary macronutrient manipulations on plasma sterol levels, and novel markers of coronary atherosclerosis, calcification, and the metabolic syndrome.

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**STAFF NEWS**

**Introducing Armgard Haken, the new Division Project Coordinator!**

She is located in the Division office (449 Bevier Hall) with Linda. Her e-mail address is: aehaken@uiuc.edu
David H. Baker (emeritus) is a member of the FASEB Board of Directors and is a member of the Organizing Committee, International Council of Amino Acid Science. He serves on the following committees for American Society for Nutrition (ASN): Public Policy, Dannon Institute Mentorship Award and the BioServ Award. Dr. Baker became a Fellow in ASN in April 2005 and was elected to the National Academy of Sciences in May 2005.

Karen Chapman-Novakofski is an Associate Editor of the *Journal of Nutrition Education and Behavior*, the professional journal of the Society for Nutrition Education.

Donald P. Briskin received the College of ACES Paul A. Funk Award.

Elvira deMejia was cited on the fall 2004 "Incomplete List of Teachers Ranked as Excellent by Their Students" for FSNH 416, Food Chemistry Laboratory.

Sharon M. Donovan continued to be active in the leadership of ASNS during the process of reorganization to ASN by serving on the Joint Council Advisory Group. She completed her 3-year term as Secretary of ASNS in 2005, but was appointed Secretary of the ASN Transition Executive Board for 2005-2006. She also chaired the nominating committee for BioServ Research Award, and served on the selection committees for Peter J. Reeds Young Investigator Award and the newly established Excellence in Teaching Award. She also became a member of the Steering Committee for the Energy and Macronutrient RIS, 2005-2007. She served on two review committees for the NIDDK: A Special Emphasis Panel reviewing applications for Clinical Nutrition Research Unit Core Centers in March and a Special Emphasis Panel reviewing applications for Obesity Nutrition Research Centers in November 2005.

John W. Erdman, Jr. serves on the Board of Trustees, ILSI-NA; is a member of the Scientific Advisory Board of the United Soybean Board; and serves as Chair of the Mars Nutrition Research Council. He is Chair of the Committee on Military Nutrition Research and the Committee on Optimization of Nutrient Composition of Military Rations for Short-term, High-stress Situations for the IOM/NAS.

George C. Fahey, Jr. is a member of four editorial boards: *Journal of Nutrition, British Journal of Nutrition, Archives of Animal Nutrition* and *Journal of Animal Physiology and Animal Nutrition*. He is also a committee member on four Scientific boards: Fats and Proteins Research Foundation, Milk Specialties Co., International Ingredients, Inc. and the National Corn to Ethanol Research Center.

Timothy A. Garrow was promoted to Professor in August 2005. He received the 2005 Teacher Fellow Award from the North American Colleges and Teachers of Agriculture (NACTA). Criteria included in the selection are the instructor's teaching philosophy; evaluations submitted by current students, alumni, administrative officers and peers; a self-evaluation as well as factors such as availability to students, teaching innovations and departmental/institutional activity.

H. Rex Gaskins was cited on the fall 2004 "Incomplete List of Teachers Ranked as Excellent by Their Students" for NUTR 510, Postgenomics: Tools and Applications.

Schuyler S. Korban received the College of ACES Spitze Land-Grant Professorial Career Excellence Award.

Soo-Yeun Lee was cited on the fall 2004 "Incomplete List of Teachers Ranked as Excellent by Their Students" for FSHN 595, Advanced Sensory Evaluation (Extramural Program).

Roderick I. Mackie received the College of ACES Senior Faculty Award for Excellence in Research.
Kelly S. Swanson accepted an Assistant Professor position in the Department of Animal Sciences, UIUC in August 2004 and became a member of the Division in January 2005. Kelly was a 2005 Dannon Institute Nutrition Leadership Institute Recipient and was selected as a 2005-06 Faculty Fellow of the National Center for Supercomputing Applications (NCSA) UIUC.

Kelly A. Tappenden received the 2005 American Society for Parenteral and Enteral Nutrition Dudrick Research Scholar Award. A.S.P.E.N. presents this annual award to recognize and support an investigator who has shown significant achievements in nutrition support, is an A.S.P.E.N. member, and who demonstrates exceptional research productivity and the potential to continue to make contributions in the field of Specialized Nutrition Support. Dr. Stanley Dudrick, the individual credited with development of parenteral nutrition, nominated Kelly. She received the College of ACES Academy of Teaching Excellence Award. The Academy of Teaching Excellence comprises a select group of College faculty who affirm and encourage excellence in teaching and advising by providing teaching development programs, leadership and support to foster advances in instruction, and promoting excellence in undergraduate and graduate education. She also received the 2004 Faculty Award for Excellence in Research, which is awarded annually to recognize outstanding professional achievement and demonstrated excellence in the area of research.

She serves on committees for the Department of Food Science & Human Nutrition, Nutritional Sciences, Animal Sciences, the College of ACES and the University of Illinois. Kelly serves as the Director of Research, Board of Directors for the American Society for Parenteral and Enteral Nutrition and President, Board of Directors for the American Society for Parenteral and Enteral Nutrition Rhoads Research Foundation. She serves on the BioServ Award Nominating Committee and the Minority Affairs Committee for the American Society for Nutrition; Nutritional and Obesity Section Delegate for the American Gastroenterological Association; and the Governance Task Force and Intersociety Research Meeting Working Group for A.S.P.E.N. Kelly is an Associate Editor, Gastroenterology Intestinal Failure supplement and serves on Editorial Boards for Current Nutrition Reviews, Intestine, and Journal of Nutrition. She also participated on Review Panels for the Clinical and Integrative Gastrointestinal Pathobiology Study Section and the National Research Service Award Postdoctoral Fellowship, National Institute of Diabetes and Digestive and Kidney Diseases, NIH and Crohn's and Colitis Foundation of Canada Grants in Aid.

David H. Baker studied toxicological aspects of methionine, cysteine, cystine and N-acetylcysteine; and S-methylmethionine: It's role in transmethylation.

Sharon M. Donovan received new grants from Mead Johnson Nutritionals, Wyeth Nutritionals, The Solae Company and the USDA. In addition, she continues to serve as PI on the three Division training grants and the BMS Freedom to Discover grant. She had the opportunity to visit Havana, Cuba in May and August 2005 to initiate a collaborative research project investigating the impact of soy consumption in 7-13-year-old children on growth, development and short- and long-term health outcomes. Collaborators on the project include Tony DeLio at the University of Illinois, Pam Horn-Ross at the Northern California Cancer Center and Armando Rodríguez and Ibrahin Quintana from the Institute of Nutrition and Food Hygiene in Havana, Cuba.

John W. Erdman, Jr. received a grant with Mary Ann Lila from NIH/NCI to support use of tomato cell culture systems to produce labelled carotenoids. He also received grants from the following: American Institute for Cancer Research to evaluate the effects of lycopene, selenium and vitamin E on prostate cancer in cell culture and animal models; and from Masterfoods, USA to evaluate the effects of consumption of cocoa products on serum lipids in mildly hypercholesterolemic individuals.
George C. Fahey, Jr. received new grants from Novus Int'l, Zinpro Corp., Lesaffre Yeast Corp., Nestle Purina Healthcare, Ross Products Division of Abbott Laboratories, USDA, and Archer Daniels Midland/Department of Energy.

Manabu T. Nakamura advised students in the James Scholar Honors Program to create a nutrition education website Essentials for Eaters and Dieters, http://web.aces.uiuc.edu/efd. The website provides concise advice for building healthy and sustainable eating habits and for effective weight loss.

Kelly S. Swanson received funding from the National Center for Supercomputing Applications (NCSA) UIUC for "Predictive data mining of complex nutrigenomic datasets".

Kelly A. Tappenden received funding from NPS Pharmaceuticals, Inc., The Beverage Institute for Health and Wellness, Nestle Nutritionals, Wyeth Ayerst Global Pharmaceuticals, and National Institutes of Health. She also received funding from NIH for an Annual Nutrition Week Research Workshop (2003-08).

### FACULTY INVITED TALKS 2004-2005

David H. Baker (emeritus) presented invited talks at the following: Fourth International Conference of Amino Acid Science, Kobe, Japan "Tolerance for branched-chain amino acids in humans and other animals"; Midwest Swine Nutrition Conference, Indianapolis, IN "Amino acid nutrition of swine: What's new?"; "Utilization and toxicity of sulfur amino acids: A species comparison" Los Angeles, CA; and "Ideal Protein" Swine Production School, Champaign, IL.

Sharon M. Donovan presented "Inhibitory activity of bovine milk fat globule membrane against sialic acid-dependent and -independent strains of rotavirus" Joint ADSA-ASAS-CSAS meeting, Cincinnati, OH; “Insulin-like growth factors and intestinal development of artificially reared pigs and piglets suckling IGF-I transgenic sows” International Symposium on Swine in Biomedical Research, Chicago, IL. She visited the Department of Pediatrics at Northwestern University where she discussed her research on therapies to ameliorate TPN-induced intestinal compromise in the piglet model. She presented an evening lecture entitled “Improving infant formulas: Role in lifelong nutritional health” as part of the Boston Nutrition Seminar series. The following day she presented a seminar on “Therapies to ameliorate TPN-induced abnormalities in intestinal structure and digestive and immune function” to the Gastroenterology Division at Boston Children’s Hospital. She was an invited speaker at a symposium recognizing the 25th anniversary of the Bristol-Myers Squibb Freedom to Discover Nutrition Program and the 100th anniversary of Mead Johnson, which was held at the University of Cincinnati. She spoke on the “Role of human milk components in GI development: Current knowledge and future needs”. She is co-editing the proceedings of the symposium to be published as a supplement in the Journal of Pediatrics. She gave an invited lecture on “The effects of soy in Cuban children participating in the Government Feeding Program” at the 1-day symposium on the Effects of Soy on Growth and Development: How Much Do We Know?, Chicago, IL.

John W. Erdman, Jr. was an invited speaker at an NIH/NCI conference on Promises and Perils of Lycopene/ Tomato Supplementation and Cancer Prevention. He served as an organizer and moderator of an ILSI conference on Flavonoids and Heart Disease; and presented several talks in Taiwan, including "Does consumption of soy foods reduce the risk of cancer?" at the International Symposium on Nutrition, Diet and Cancer in Taipei.

George C. Fahey, Jr. presented invited talks at the following meetings: IFT, ADSA/ASAS/PSA, American Chemical Society, Symposium on Dietary Fiber with Emphasis on Energy Value, and the California Animal Nutrition Conference.
**Faculty Invited Talks, Continued**

**Timothy A. Garrow** presented invited talks in Christchurch, New Zealand at the Department of Chemistry, University of Canterbury, the Biochemistry Unit, Canterbury Health Laboratories, and the Department of Animal and Food Sciences, Lincoln University. He also presented talks at: the Department of Chemistry and Biochemistry, Southern Illinois University, Carbondale; Department of Food Science and Human Nutrition, Iowa State University, Ames; Department of Food Science and Nutrition, California Polytechnic State University, San Luis Obispo; Department of Molecular Biosciences, University of California, Davis; and FASEB Summer Research Conference on Folic Acid, Vitamin B12 and One Carbon Metabolism, Snow Mass, CO.

**Kelly S. Swanson** presented "New feeding standards for pets" 38th Nottingham Feed Conference, Nottingham, UK; and "Molecular nutrition: Impact on pet food and veterinary medicine" Petfood Forum 2005, Chicago, IL.

**Kelly A. Tappenden** presented "Nutrition and Functional Foods" Symposium on Innocuity, Preservation and Functional Foods Ties-Enlaces/US-AID/Mexico, University of Illinois-Universidad Autonoma de Queretaro, Queretaro, Mexico; "The influence of butyrate and GLP-2 on intestinal adaptation" and "Teduglutide enhances intestinal structure and function in patients with short bowel syndrome" European Society for Parenteral and Enteral Nutrition, Lisbon, Portugal; "Butyrate and intestinal adaptation: It's not just about the colon" Department of Pediatric Surgery, University of Cincinnati, OH and Section of Digestive Diseases and Nutrition, College of Medicine, University of Illinois, Chicago; "Bowel function in hypotension and hypoxia" Guest faculty in Continuing Medical Education Course, Enhancing the Safety of Parenteral and Enteral Nutrition--Redefining Hospital Nutrition in Modern Medicine, Harvard Medical School, Cambridge, MA; "Introductory overview on gut-associated lymphoid tissue (GALT) physiology" International Life Sciences Institute Annual Meeting, New Orleans, LA; Invited Discussant - Intestinal Failure Symposium and Premier Paper Session, and Moderator - Pediatrics to Geriatrics Symposium, Clinical Nutrition Week 2005, Orlando, FL.

**Faculty Personal Achievements**

**Timothy A. Garrow** completed a 5-day canoe/camping trip down the Upper Missouri River (Montana). It was great fun and he recommends it to everyone!

**2005 Mars Nutrition Research Council Lectureship**

by Robin Allen, M.S.P.H., R.D., L.D.

Dr. Carl Keen has been a Professor of Nutrition since 1981, University of California, Davis, and Chairman of the Department of Nutrition since 1993. He has served on numerous government boards and has chaired and organized national and international conferences such as: New York Academy of Sciences Meeting on Maternal Nutrition and Pregnancy Outcome, and the Western Human Nutrition Centre/USDA on New Approaches to Define Nutrient Requirements. He presented “Potential Influence of Maternal Nutrition on Embryonic and Fetal Programming of Physiological Disorders in Adulthood”, April 18, and “Nutrition in Optimizing Pregnancy Outcome: The Critical Role of Micronutrients”, April 19, 2005.

John Malin, Ph.D., Vice President (retired), responsible for R&D, Engineering and Manufacturing, spent the past 18 years of his career with Mars, Incorporated. He held the role of Corporate Vice President of Technology. He obtained his Ph.D. in Food Science and Nutrition from Glasgow and is a fellow of the UK Institute of Food Science and Technology. He has many publications and patents in the area of food science, nutrition and food packaging. His career has been dedicated to the food industry, including canine and feline therapeutic diets, as well as, ice cream and chocolate. He presented “Opportunities in the Food Industry” April 18, 2005.
Professor David H. Baker was elected to the National Academy of Sciences in May 2005. Election to membership in the Academy is considered one of the highest honors that can be accorded a U.S. scientist or engineer.

The Academy noted Baker’s work in developing purified chemically defined diets for nutrition and metabolism studies in pigs, chicks, rats, mice, cats and dogs. This work has led to new information on the precursor role of amino acids and how vitamins and trace minerals interact with amino acids in the body. While Baker has made groundbreaking contributions in nutrition for pigs, poultry, dogs and cats, he also has done significant work in human nutrition. Aspects of his work have touched upon health-related conditions such as osteoporosis, cardiovascular disease and the side effects of chemotherapy.

**Bart Deplancke received The Peter Reeds Memorial Young Investigator Award**
given for outstanding research in macronutrient metabolism accomplished within five years of receiving a Ph.D., or completing residency training

Bart Deplancke received his Ph.D. degree in Nutritional Sciences in May 2002 under the advisement of Rex Gaskins. He currently is a Postdoctoral Fellow, Program of Gene Function and Expression, Department of Molecular Medicine, University of Massachusetts Medical School, Worcester. He is conducting research on how host genetic background affects disease outcome in response to bacterial-derived environmental insults.
Kelly Swanson, PhD, Assistant Professor, Dept Animal Sciences, UIUC. “Comparative nutrition research in the ‘Omics’ era”

Mona Calvo, PhD, Food & Drug Administration, Washington, DC. “Dietary vitamin D insufficiency: A significant risk factor for chronic disease”

Brian Berg, Nutritional Sciences Graduate Student. “Antioxidant modulation of cytokines and sickness behavior”

Rowena Matthews, PhD, G. Robert Greenberg Professor of Biological Chemistry, Senior Research Scientist, University of Michigan, Ann Arbor. “Riboflavin and hyperhomocysteinemia: Studies on methylenetetrahydrofolate reductase and methionine synthase reductase”

Matias Avila, PhD, Professor, Dept Medicina Interna, University of Navarra, Pamplona, Spain. “New insights into the role of S-adenosylmethionine in the regulation of liver function”

Kevin Schalinske, PhD, Associate Professor, Dept of Food Science & Human Nutrition, Iowa State University, Ames. “Perturbation of methyl group and homocysteine metabolism by diabetes and retinoid compounds”

Barry Shane, PhD, Professor, Dept of Nutritional Sciences, University of California, Berkeley. “Molecular-genetic models for studying the regulation of folate-mediated one carbon metabolism”

Neil Shay, PhD, Associate Professor, Dept of Biological Sciences, Notre Dame University, Notre Dame. “Soy isoflavones: molecular actions and interactions”

Kenneth Poirier, PhD, Poirier & Associates, West Chester, OH. “Confessions of a peripatetic mind or how to teach an old dog new tricks”

Willard Visek, MD, PhD, Professor Emeritus, Dept of Internal Medicine, College of Medicine, UIUC. “Urea hydrolysis and its consequences”

Kenneth Wilund, PhD, Assistant Professor, Dept of Kinesiology, UIUC. “Sterol metabolism, chronic disease, and exercise”

Kimberly Huey, PhD, Assistant Professor, Dept of Kinesiology, UIUC. “Modulation of muscle gene expression by reduced activity”
Sharon M. Donovan, Director, Division of Nutritional Sciences, UIUC. “Overview of the Bristol-Myers Squibb Freedom to Discover Grant”

Keith Kelley, PhD, Professor, Dept of Animal Sciences, UIUC. “What happens when growth-promoting and cytokine receptors collide?”

Gabrielle Ronnett, MD, PhD, Professor, Department of Neuroscience, Johns Hopkins University School of Medicine, Baltimore, MD. “Energy wars: Fatty acid synthase as a metabolic energy sensor and its role in the treatment of obesity”

Allison Ellington, FSHN Graduate Student. “B-group soyasaponins: Putative chemoprotective agents in the colon”

James M. Ntambi, PhD, Professor, Depts Biochemistry and Nutritional Sciences, University of Wisconsin, Madison, WI. “Role of stearoyl-CoA desaturase in metabolism: Implications for human diseases”

Debbie Thurmond, PhD, Assistant Professor, Dept Biochemistry and Molecular Biology, Stark Neurosciences Research Institute, Indianapolis, IN. “Regulation of glucose homeostasis by SNARE proteins”

Norman Salem, Jr., PhD, Laboratory Chief, NIH/NIAAA, Rockville, MD. “Docosahexaenoic acid: Composition, metabolism and function in the nervous system”

Arthur A. Spector, MD, University of Iowa Foundation Distinguished Professor, Biochemistry Department, University of Iowa, Iowa City, IA. “Arachidonic acid cytochrome P450 products: A new class of lipid mediators”

Jennifer M. Quirk, PhD, Associate Director, Institute for Genomic Biology, UIUC. “Overview of the Institute for Genomic Biology”

Alejandra Gratson, Nutritional Sciences Graduate Student. “Cloning overexpression and characterization of human choline dehydrogenase as a flavin-dependent dehydrogenase”

John Sheridan, PhD, George C. Paffenbarger Endowed Chair in Research and Professor, The Ohio State University Health Sciences Center, Columbus, OH. “Social interactions, stress and immunoregulation”

Nancy Correa-Matos, Nutritional Sciences Graduate Student. “Effect of fermentable fiber on neonatal intestinal structure, function and resistance to Salmonella typhimurium infection”

Susan Zaripheh, Nutritional Sciences Graduate Student. “Insight into the metabolism of lycopene, particularly in androgen dependent tissues”

Cheryl Dikeman, Nutritional Sciences Graduate Student. “Factors affecting viscosity of select dietary fibers, complete food matrices, and canine ileal digesta”
Mary Jacob Ph.D. retired in May 2004, but continues to teach part-time. She resides in Seal Beach, CA (marjacob@csulb.edu).

George Klatt M.S. is owner of Klatt Properties in Chicago, IL (Gmmk1797@aol.com).

Deborah Engelmann M.S. is retired and resides in Kalamazoo, MI (jengelma@hotmail.com).

Richard Taubold M.S. works for Xerox Corporation in Rochester, NY. His first novel, a science fantasy titled "More Than Magick" was published in September 2004, Website: www.ricktaubold.com (rtaubold@rochester.rr.com).

Frank Morris M.S. resides in Philadelphia, PA.

Guy Johnson Ph.D. is President of Johnson Nutrition Solutions, LLC, a nutrition consulting business in Kalamazoo, MI. He was appointed Adjunct Professor in the Dept of Food Science & Human Nutrition, UIUC and is a member of the scientific advisory board for the Mushroom Council and the California Strawberry Commission. He is a member of the editorial board of The Soy Connection and is a member of the Nutrition Subcommittee of the FDA Food Advisory Committee (guy@nutritionsolutions.net).

Thomas Edes M.D. is Chief, Home & Community-Based Care, Geriatrics, Dept of Veterans Affairs, Washington, DC.

Kenneth Poirier Ph.D. is President of Poirier & Associates, West Chester, OH (kpoirier@cinci.rr.com).

Edward Basgall Ph.D. is a Research Associate, Graduate Faculty, Dept Engineering Science and Mechanics, Penn State University, University Park, PA. He survived rotator-cuff surgery to repair torn tendons in his right shoulder. Daughter, Lilly, is now 5 years old and his Harley Davidson is 2 years old (ejb11@psu.edu).

Mary Grummer Ph.D. is a Researcher, Dept Obstetrics & Gynecology, University of Wisconsin, Madison (mgrummer@wisc.edu).

Laura Rosch M.S. is a Physician, Dept Internal Medicine, Central Dupage Hospital, Chicago, IL. She is a delegate, American Osteopathic Association. Her daughter Siena has a new brother and sister, twins Valerie and Michael, born May 30, 2004 (Laura.Rosch@ssa.gov).

Anne Smith Ph.D. is an Associate Professor, Department of Human Nutrition, The Ohio State University, Columbus (smith.23@osu.edu).

Alexandra Adams Ph.D./M.D. is an Associate Professor, Dept Family Medicine, University of Wisconsin, Madison. She was appointed to the Governor's Council on Physical Activity and Health in 2004. She is chair-elect of the Wisconsin Cardiovascular Health Alliance. Alex published "Low Recognition of Childhood Overweight and Disease Risk Among Native American Caregivers" (2005) Obesity Research 13:146-152. Her son, William Christopher, was born on June 27, 2004 (alex.adams@fammed.wisc.edu).

L. Mark David M.S. is a Manager-Clinical Services, Inpatient Pharmacy, Carle Foundation Hospital, Urbana, IL. He is a board-certified Nutritional Support Pharmacist and is a member of the American Society of Health System Pharmacist, American Society of Parenteral and Enteral Nutrition and American College of Clinical Pharmacist. He is an Adjunct Professor of Pharmacy Practice at the University of Illinois, Chicago and St. Louis College of Pharmacy, St. Louis, MO.
Melissa (Hendrix) Olken Ph.D./M.D. is a Physician, Dept of Internal Medicine, Portage Physicians, P.C., Kalamazoo, MI. She is a clinical investigator for several phase 3 and 4 industry-sponsored trials; she initiated a physician-led educational series "Healthy Me" through Eating Disorders Education Network (EDEN) for obese patients; and is President, Portage Physicians, P.C. Melissa is celebrating 18 years of marriage to Norman M. Olken, M.D./Ph.D. (COM-1987). They have 2 sons, Alexander age 15 1/2 and Charles age 13 (dietfood@aol.com).

Melanie Shuran Ph.D. is a Professor, Department of Nutrition, Rosalind Franklin University of Medicine and Science, North Chicago. In March 2005, she was promoted to Chief Information Officer, Information Technology Department (threedogz@ameritech.net).

Samuel Ejadi M.S. is a Medical Oncologist, Department of Medicine, Memorial Sloan-Kettering Cancer Center, New York (ejadis@mskcc.org).

Jana (Bryant) Horner M.S. is a Fellow in Breast Imaging, MD Anderson Cancer Center, Houston, TX. She completed residency training at the Cleveland Clinic Foundation in June 2005. She completed her board certification examination in June 2005 making her a board-certified radiologist. She married Doug Horner on May 29, 2004 (janabhorner@hotmail.com).

Connie Krashoc M.S. is a Clinical Dietitian/Certified Diabetes Educator, Department of Nutritional Services, O'Connor Hospital, San Jose, CA. She has been a National Board Certified Diabetes Educator (NBCDE) since 2001. She works in the Outpatient Nutrition Clinic providing consultation and education to patients with diabetes who have been referred by their physicians. Connie lectures on nutrition, exercise and diabetes to the St. Frances nursing students, O'Connor Cardiac Rehab patients, and to the San Jose community as part of the Community Living Series offered through O'Connor Hospital (ckrashoc@att.net).

Stacy Scardefield M.S. continues to work for Roche Pharmaceuticals, Monroe, CT (stacy.scardefield@roche.com).

Sean Adams Ph.D. began a new position in August 2005 as a Research Physiologist, USDA Western Human Nutrition Research Center (WHNRC), University of California, Davis. He serves on the Editorial Board of the Journal of Nutrition (2005-07) and is a Steering Committee member, Energy & Macronutrient Metabolism RIS (sadams@whnrc.usda.gov).

Marcia Monaco Siegel Ph.D. continues as a Research Specialist, Dept of Food Science and Human Nutrition, University of Illinois, Urbana (monaco@uiuc.edu).

Heather (Muir) Spanbauer M.S. is a Realtor, Star One Realtors, Cincinnati, OH. Heather and her husband Jeffery, have 3 children, Stewart (8), Calvin (6), and Jocelyn (3) (spanbauer@fuse.net).

Mark Dicklin M.S. is a Physician Assistant, Medical Associates Clinic, Aledo, IL (mark_dicklin@hotmail.com).

Kavita Patel M.S. resides in Spartanburg, SC and is raising two daughters: Ruhi (7) and Sonia (5) (kpp93prp@charter.net).

Jason Emmert Ph.D. is an Associate Professor, Department of Poultry Science, University of Arkansas, Fayetteville, AR. He currently serves as the Co-Superintendent for the National FFA Poultry Career Development Event and will assume Superintendent duties in 2006. In January 2005, he was appointed Poultry Federation Endowed Chair, Dept Poultry Science, University of Arkansas. This position rotates among poultry science faculty every three to five years. Jason received a USDA Southern Region Award for Excellence in College and University Teaching in the Food and Agricultural Sciences (jemmert@uark.edu).
Vicki Houle  Ph.D. began a new position in June 2005 as a Senior Medical Writer, Complete Healthcare Communications, Inc., Chadds Ford, PA (vicki.houle@chcinc.com).

Joshua Anthony  M.S. was promoted to Associate Director, Global Discovery, Mead Johnson Nutritional, Evansville, IN (joshua.anthony@bms.com).

Tracy (Gautsch) Anthony  Ph.D. is an Assistant Professor (promoted to tenure-track in July 2005), Dept Biochemistry and Molecular Biology, Indiana University School of Medicine, Evansville, IN. She is Chair of the Energy and Macronutrient Metabolism RIS, ASN; and received a 2-year grant from the American Institute for Cancer Research. She published: Hao S, Ross CM, Rudell JB, McDaniel BJ, Anthony TG, Wek RC, Cavener DR, McGrath BC, Koehnle TJ, Sharp JW, Gietzen DW. (2005) Uncharged tRNA and sensing of amino acid deficiency in mammalian piriform cortex. Science 307:1776-1778. Tracy and her husband Josh, have 2 daughters, Alexandra (5) and Amalia (2) (tganthon@iupui.edu).

Sean Barnes  Ph.D./M.D. is a Postdoctoral Fellow, Division of Digestive Health, University of Virginia Health System, Charlottesville, VA. He was awarded a UNCF-Merck Fellowship, which includes 2 years of funding. He also was awarded an NIH postdoctoral minority supplement to his mentor's RO1 grant (sb7af@virginia.edu).

Joshua Bomser  Ph.D. is an Assistant Professor, Department of Human Nutrition, Ohio State University, Columbus, OH. Josh and his wife Libby, welcomed their second daughter, Toby Lara, in August 2005 (bomser.2@osu.edu).

Yoo Kyoung Park  Ph.D. is an Assistant Professor, Department Foods and Nutrition, Kyung-Hee University, South Korea. She visited Champaign in July 2005 with her husband and 5-year old triplets, June, Jeanne and Jason (triplets@hitel.net).

Sharon Donovan, Director DNS, Marcia Monaco Siegel, Ph.D. 1995, and Yoo Kyoung Park

Beth (Reason) Flickinger  Ph.D. is a Nutritionist, Research and Development, The Iams Company, Lewisburg, OH  (flickinger.ea@pg.com).

Deshanie (Ganessunker) Rai  Ph.D. is a Senior Discovery Scientist, Mead Johnson Nutritional, Evansville, IN. In 2005, she received the Mead Johnson President’s Award which recognizes and rewards very significant achievements that impact high priority objectives for the Company. It is the highest award presented at Mead Johnson and is given on an annual basis (deshanie.rai@bms.com).

Laura (Milo) Czerkies  M.S. is a Consultant, Nutrition Division, Nestle USA, Willowbrook, IL. Laura and her husband Scott welcomed their daughter Elena Carolyn on October 25, 2004. She weighed 7 pounds and was 20.5 inches long (laczerkies@yahoo.com).

Weisong He  M.S. is a Research Associate, Columbus Children's Research Institute, OH  (HeW@ccri.net).

Bart Deplancke  Ph.D. is a Postdoctoral Fellow, Program of Gene Function and Expression, Dept Molecular Medicine, University of Massachusetts Medical School, Worcester (Bart.Deplancke@umassmed.edu).
### 2002

**Sara Painter** M.S. is a Dietitian, Division of Clinical Quality, Crusader Clinic, Rockford, IL. She is a member of the Rock River Valley Food Pantry, the Northern Illinois Diabetes Coalition-Education Committee, and the local dietetic association. Her daughter Megan will be 2 in December and she is expecting another child in April 2006 (spainter_ccca@yahoo.com).

**Harn Shiue** M.S. is a P-1 student, College of Pharmacy, University of Illinois, Chicago. He published the following:


**Lisa Tussing** M.S. is a Research Assistant, Dept Human Nutrition, University of Illinois, Chicago (ltussing@uic.edu).

### 2003

**Coryn Commare** M.S. is a Pediatric Clinical Dietitian, Dept Nutritional Services, Children's Hospital and Health Systems, Milwaukee, WI. She is a member of A.S.P.E.N., ASN, ADA, Milwaukee Dietetic Association, Pediatric Practice Group, Dietitians in Nutrition Support Practice Group Work Committee, Clinical Practice Council, Nutrition Support Committee, and Anthropometrics Committee (ccommare@chw.org).

**Cassandra Delgado-Reyes** Ph.D. is a Postdoctoral Fellow, Dept Physiology, Emory University School of Medicine, Atlanta, GA. She is conducting research on lipid transporters in yeast (cvdelga@emory.edu).

**Jill (Gorski) Drum** M.S. is a Research & Development Supervisor, R&D/Product Development, Haemoscope Corp., Niles, IL (jillmdrum@yahoo.com).

### 2004

**Jennifer Seyler** M.S. is a Dietitian, Nutrition and Weight Loss, Bally Total Fitness, Chicago, IL (jseylernutrition@hotmail.com).

**Chris Wharton** M.S. is a doctoral candidate, Dept of Exercise & Wellness, Arizona State University, Mesa, AZ. He is a contributing editor of the *American Journal of Health Promotion* and is a member of the American Dietetic Association Student Council Advisory Committee Chair (chris.wharton@asu.edu).

**David Albin** Ph.D. is a Postdoctoral Molecular Biologist, Dept of Microbial Biophysics, USDA-ARS, Wyndmoor, PA. He received a 2004 Outstanding Performance Award, USDA-ARS. Dave is conducting research on pathogenic microbe detection in foods (david_m_albin@yahoo.com).

**An-Chian Chen** Ph.D. works in the Dept Health and Human Services, Public Health Laboratory, Long Beach, CA. She teaches a nutrition class at the Norco campus of Riverside Community College (acchen7@yahoo.com).

**Lauren Petr** M.S. is completing a Dietetic Internship, Vanderbilt University Medical Center, Nashville, TN. She received an American Dietetic Association National Scholarship. Lauren completed 2 half-marathons since graduating (elpetr77@yahoo.com).

**Victoria Wade** Ph.D. is a Research Analyst, Grants and Special Projects, Black Hills State University, Spearfish, SD. She oversees projects involving 26 different American Indian reservations in Montana, Wyoming and South Dakota, which are conducting research in the areas of health disparities, diabetes, breast and cervical cancer, fetal alcohol syndrome, and SIDS (VictoriaGreyOwl@bhsu.edu).
Each year the Division hosts a reception at the Experimental Biology Meeting. It is a wonderful opportunity for our alumni to network with each other, the faculty and current graduate students in the program.

If you will be attending the EB 2006 meeting in San Francisco, CA, please plan to join us at our reception on

Monday, April 3, 2006
from 7 - 9 PM
at the Argenta Hotel
(ASN Headquarters)

Thank You!
The faculty and students of the Division would like to recognize Ed Ulman (Ph.D. 1980) and the Department of Nutrition, UIC, for their generous contribution in support of the Nutritional Sciences Mixer at EB 2005. Their support has allowed us to host the reception at the same quality despite the reduced support received by the Division from the University. Thank you!

Photo Gallery From EB 2005

Left to right: Faculty Members Kelly Swanson, Kelly Tappenden, H. Rex Gaskins, Stephanie Block, ADM Animal Health, Bart Deplancke, Ph.D. 2002, Animal Sciences Ph.D. candidate John Conour, Faculty Member George Fahey, Former Faculty Member Jack Odle, FSHN Graduate Sandra Bartholomey, and Sharon Donovan, Division Director
PHOTO GALLERY FROM EB 2005, CONTINUED

Marian Eberhardt and Radha Bheemreddy, FSHN doctoral candidates

Michelle (Brown) McGuire, M.S. 1988 and Deborah O’Connor, Ph.D. 1989

Marlene Guillon and Dolores Doane, M.S. candidates

Faculty Members Elvira deMejia and Karen Chapman-Novakofski

Animal Sciences Ph.D. candidate John Conour, Former Faculty Member Jack Odle, Faculty Member H. Rex Gaskins and Bart Deplancke, Ph.D. 2002