

CURRICULUM VITAE

PERSONAL DATA:

Name: Naïma Moustaid-Moussa
Citizenship: U.S.A
DOB: 03/29/1962
Gender: Female
Race/Ethnicity: African American
Family status: Married, three children (Sami, Zaina and Yasmine; 17, 14 and 9 years old, respectively)
Home address: 4107 109th street Lubbock, TX 79423
Tel. (Home): (806) 853-9043
(Office): (806) 742-3068, Fax: (802) 742-3042
(Mobile): (806) 632-8642
E-mail: naima.moustaid-moussa@ttu.edu
moustaid2@gmail.com

EDUCATION:

1989 Ph.D. Endocrinology (Metabolic, Cell and Molecular)
University of Paris VI (P & M Curie). France
1986 D.E.A.(Diplome Etudes Approfondies) Equivalent to MS,
Endocrinology
University of Paris VI (P & M Curie). France
1985 License & Maitrise (B.S). Cell Biology & Physiology
University of Paris XI, Orsay, France
1983 DEUG. Biology & Geology (University Diploma)
University Mohammed V, Rabat. Morocco

PROFESSIONAL EXPERIENCE

2012- **Professor**, Nutritional Sciences Program (Nutrition, Obesity and Metabolic Disorders Laboratory) & **Leader**, Obesity Research Cluster. Texas Tech University; Lubbock, TX
“Primary research areas: Role of adipose tissue endocrine function in inflammation and metabolic disorders; nutrient-gene interactions; anti-inflammatory effects of phytochemicals; genomics, proteomics and metabolomics of obesity and diabetes; animal models for human disorders of energy balance; beta cell proteomics and signaling in diabetes; diet, inflammation and obesity-cancer

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interactions: Secondary area: Prevention of childhood obesity

- 2008-2012 **Professor**, Nutrition and Physiological Genomics. Department of Animal Science (AgResearch) and Department of Family and Consumer Sciences (UT Extension). The University of Tennessee (UT) Institute of Agriculture, Knoxville, TN
- 2007-2012 **Co-Director**, UT Obesity Research Center. Duties: Center leadership; *primary center contact and center assistant supervision, responsible for center management, budgets and oversight of web site and center grants and listserv announcements; liaison with Deans and Vice Chancellor for Research; oversight of Pilot and Feasibility programs and center reviews and reports.*
- 2003-2007 **Professor**, Molecular and Cellular Nutrition; UT Nutrition Department and TN Agricultural Experiment Station
- 2003- **Professor (Adjunct)**, Genome Science and Technology (GST) Program, UT-ORNL Graduate School of GST
- 2004-2005 **Fulbright Scholar** and **Visiting Professor**; The European Institute for Chemistry and Biology and University of Bordeaux, France. *Beta Cell Proteomics and Signaling*
- 1998-2003 **Associate Professor**, UT Nutrition Department and TN Agricultural Experiment Station, UT-Knoxville
- 1999-2003 **Associate Professor** (Adjunct), UT-ORNL Graduate school of GST
- 1993-1998 **Assistant Professor**, UT Nutrition Department and TN Agricultural Experiment Station
- 1993-1996 **Assistant Professor** (Adjunct), Physiology Program, UT
- 1989-1993 **Postdoctoral Fellow**, Harvard School of Public Health, Nutrition Department, Boston, MA
- 1985-1989 **Graduate Student**. Institut Biomedical des Cordeliers, INSERM 177. Nutrition Unit, Paris, France
- 1986-1989 **Research Technician**. Pharmacology Unit. Biomedical. Institute des Cordeliers. Paris, France
- 1983-1986 **Research Technician**. Molecular Genetics Center Gif/Yvette. France

HONORS, AWARDS and PATENTS:

- 2012 American Society for Nutrition, Nutrient-Gene Interactions Research interest Section, 2012 Outstanding Investigator Award
- 2012 Nominated (not elected) for an Executive Board position (Secretary) of The American Society for Nutrition

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- 2012 Nominated (not elected) for Vice President position of The Obesity Society
- 2011- Co-Chair, American Heart Association Lipids 2 Basic Science Peer review Committee
- 2011 Co-inventor, Provisional patent application: "Added Value for Bioenergy crops"
- 2010-11 Participant, LEAD21 Program (Leadership and professional development training for Land Grant Universities)
- 2010-2013 Elected Council Member of The Obesity Society, Representing Basic/Experimental Obesity Researchers (Council liaison for the Basic Science Section, Development Committee and Nominating Committee)
- 2007 Chancellor's Award for Research and Creative Activity, The University of Tennessee
- 2007 Invited Professor (March), The University of Bordeaux
- 2007- Member, TN Obesity Taskforce (Advisory board charged with development and implementation of the CDC-funded state plan for obesity)
- 2004-2005 Fulbright Scholar and invited Professor, The University of Bordeaux, France
- 2002 Co-inventor, US Patent # 6492130. Modulation of the sulfonylurea receptor and calcium in adipocytes for treatment of obesity/diabetes
- 2001 Co- inventor, US Patent # 6242200: Screening for SUR1 antagonists using adipocytes
- 2001 Science Alliance Award, University of TN
- 2001-2005 Established Investigator Award, the American Heart Association
- 2000 Co-inventor, US Patent # 6100047: Modulation of the sulfonylurea receptor and calcium in adipocyte for treatment of obesity/diabetes
- 2000 Faculty Enrichment Award for Research, Human Ecology
- 1998 Among UT Faculty honored by The Vice Chancellor's for Academic Affairs Office for Professional Recognition outside the University
- 1998 Arch of achievement award for research, Human Ecology.
- 1998 Faculty Enrichment Award for Research, Human Ecology.
- 1995-1998 Career Development Award, The American Diabetes Association

FUNDING and GRANTS AWARDED

- 2012-2016 Research Start Up Funds, Texas Tech University
- 2013-2014 **Sungrant Southeast award (Bioenergy/USDA)** (Co-PI; \$125,000); Extractives in switchgrass: value added products to prevent adipocyte inflammation.
- 2008-2013 **USDA-NRI Competitive Research Award** (Co-PD; \$625,000); Integrated Research and Extension childhood obesity project)
- 2012 **TN AgResearch Innovative Grant** (\$25,000): Mechanisms mediating anti-inflammatory effects of omega 3 polyunsaturated fatty acids (PI)
- 2012-2013 **Physicians Medical Education & Research Foundation** Research Award (PI, \$10,000): Effects of bariatric surgery on adipose tissue and systemic inflammation
- 2011-2012 **AgResearch and Extension Innovative Grant** (\$38,000): Anti-inflammatory effects of bioactive components of food, metabolic and food borne illnesses (PI)
- 2009-2011 **USDA-NIFA-AFRI competitive research award** (PI, grant transfer from Dr. Lisa Jahns after she left UT) \$149,000
Epidemiologic tools to assess obesity-related energy and nutrient intakes
- 2010-2011 **UT Center of Excellence** for Livestock and Human Diseases (\$15,000): Isoflavones and adipocyte inflammation
- 2011-2013 **Physicians Medical Education & Research Foundation** Research Award (PI, \$9,000): Omega-3 fatty acids and insulin resistance
- 2009-2011 **Physicians Medical Education & Research Foundation** Research Award (Co-PI, \$10,000): quercetin, adipocyte inflammation and diabetes
- 2009-2010 **USDA-AFRI Conference Grant**, Experimental Biology symposium on "Systems Genetics in Nutrition and Obesity" (PI, \$10,000)
- 2007-2010 **AHA**, Southeast Affiliate (PI, \$155,000; mechanisms linking adipocyte angiotensinogen to insulin resistance and inflammation)
- 2005-2010 **USDA-NRI Competitive Research Grant** (PI, \$499,000; Dietary regulation of the secretory function of adipose tissue)
- 2006-2008 **Physicians Medical Education & Research Foundation** Research Grant (PI, \$10,000). Regulation of the renin angiotensin system in obesity and insulin resistance
- 2004-2005 **Fulbright** (Aquitaine) scholarship and Visiting Professor, European Institute for Chem/Biol., Bordeaux, France (PI; €25,000); beta cell signaling and proteomics and mechanisms of diabetes

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- 2005 **USDA-NRI** Conference Grant, for organizing the FASEB Summer Conference (PI, \$15,000; Nutrient control of gene expression and signaling)
- 2005 **AHA** Conference Grant, FASEB Summer Conference (PI, \$5,000; Nutrient control of gene expression and signaling)
- 2005 NIH Conference grant (R23), FASEB Summer Conference (Co-PI, \$23,000; Nutrient control of gene expression and signaling)
- 2002-2006 **NIH** (NIA U01 supplement) Screening for aging phenotypes in ENU mutagenized mice (Aging Supplement PI; ~\$400,000)
- 2001-2006 **AHA**, National Center. Established Investigator Grant (PI, \$300,000; Angiotensin regulation of adipocyte gene expression and signaling).
- 2003-2004 **UT College of Education Health and Human Sciences** Catalyst Grant “proteomics of adipose tissue”, (PI; \$25,000)
- 2003 **USDA-NRI** Conference Grant, (PI, \$4,000). ASNS Symposium on Improving Human Nutrition through genomics, proteomics and biotechnology).
- 2002-2003 **Physicians Medical Education & Research Foundation** Research Grant (PI; \$10,000): Nutritional regulation of angiotensins.
- 2002-2004 **UT**, Two Professional Development Awards (PI, \$5,000)
- 2001-2002 **Physicians Medical Education and Research Foundation** Research Grant (PI, \$15,000): animal models of the renin angiotensin system
- 2001-2002 **Center of Excellence in Genomics and Bioinformatics, UTHSC**, Research Grant (seed funds), “Genomics and proteomics of obesity, diabetes and CVD” (Co-PI; \$25,000)
- 1999-2001 **AHA**, Grant In Aid, Southern Affiliate (PI; \$70,000) Angiotensin regulation of leptin: role of prostaglandins
- 1998-2002 **USDA-NRI** Competitive Research Grant (PI; \$180,000). Nutritional regulation of the human fatty acid synthase gene
- 1999-2000 **Physicians Medical Education and Research Foundation**; two-research grants (PI; \$20,000): Angiotensin-leptin interactions
- 1997-1999 **Knoll Pharmaceuticals**. (Co-PI; \$242,000); Agouti-Insulin interactions in obesity
- 1997-1999 **American Heart Association** Grant In Aid, TN Affiliate (PI; \$50,000): Angiotensin regulation of adipocyte gene expression.
- 1997-1998 **Plastic Surgery Division, UT Medical Center**; Two Research Grant (PI, \$10,000): Human adipose tissue metabolism and gene expression

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- 1995-1998 **The American Diabetes Association** Career Development Award (PI; \$225,000): Cloning and insulin regulation and the adipocyte fatty acid synthase gene
- 1995-1996 **New Foundation for Diabetes** Research Award (PI; \$15,000): Insulin regulation of human adipocyte gene transcription
- 1995-1998 **Physicians Medical Education and Research Foundation** Three-Research Grant (PI, \$30,000) (Expression and regulation of the renin angiotensin system in adipose tissue in obesity and diabetes: human and animal models)
- 1994-1995 **University of Tennessee**, Professional Development Award (\$5,000)

Undergraduate, Graduate and Postdoctoral funding:

- 1993-1994 Postdoctoral Fellowship from the Juvenile Diabetes Foundation (second year funding declined when I moved into a tenure-track faculty position). Insulin regulation of metabolic gene transcription
- 1991-1993 Postdoctoral Fellowship from Juvenile Diabetes Foundation. Insulin regulation of metabolic gene transcription
- 1988-1989 Research Grant from "Group Lipid Nutrition". Development of human adipocyte cell culture models. Paris, France
- 1980-1989 Scholarship for undergrad and graduate education from the Ministry of National Education, Morocco

PROFESSIONAL SOCIETIES:

- ASN (American Society for Nutrition)
- The Obesity Society, TOS (Formerly NAASO)
- AHA (American Heart Association)
- The Biochemical Society, not current
- AAAS (American Association for the Advancement of Science), not current.
- ADA (American Diabetes Association), not current

PROFESSIONAL SERVICE

JOURNALS EDITORIAL BOARDS

- 2011- Journal of Nutritional Biochemistry
- 2011- Frontiers in Nutrigenomics
- Frontiers in Fatty Acid and Lipid Physiology
- 2011- Journal of Metabolic Syndrome
- 2005- 2008 Adipocytes, International Journal; Editorial Board
- 1997- 2009 Biochemical Journal Editorial Advisory Board
- 1996 Guest editorial board, special issue of Nutrition in the American Journal for Health Studies

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BOOKS EDITED:

CRC Press (Proposal and contract pending): Moustaid-Moussa and Nishan Kalupahana (Eds). Omega 3 fatty acids in Health and Disease
Marcel Dekker: Genomics and Proteomics in Nutrition. Co-edited with Dr. Carolyn Berdanier, August 2004
CRS Press: Nutrient-Gene Interactions in Health and Disease, CRC Press, co-edited with Dr. Carolyn Berdanier, June 2001.

GRANT REVIEW COMMITTEES:

2013 Reviewer, Wellcome Trust Research Awards, UK
2012 Reviewer, Dutch Diabetes Research Foundation, Diabetes Fonds Projects, Netherlands
2012-2012 AHA, Co-Chair, "Lipids Basic Science" Peer review Committee
Oak Ridge Associated Universities, Peer reviewer, state health research programs
2011-2010 AHA, "Lipids" Peer-review committee (National and affiliates)
NIH, P01 Energy Balance Program Study Section
2009 NIH, NRSA (F31/F32) Diversity Fellowship Study Section
2007-2009 Fulbright (Europe) Peer Review Committee
12/2007 NIH, ONRC (Obesity Nutrition Research Centers) Study Section
07/2007 NIH, NRSA (F31/F32) Fellowship Study Section
02/2007 NIH, CNRU (Clinical Nutrition Research Units) Study Section
10/2005 NIH, CNRU Study Section
06/2004 NIH, IPOD (Integrative Physiology of Obesity/Diabetes) Section
02/2004 NIH, Nutrition Study Section
10/2003 NIH, Nutrition Study Section
10/2003 USDA-ARS, Pediatric Nutrition Center Review Panel.
07/2002 NIH, NRSA (F31) Fellowship Study Section.
1997-1996-1997 USDA-NRI Ad Hoc Grant reviewer
AHA Grant review committee

OTHER PROFESSIONAL SERVICE:

2012 AHA, Research & Scientific Classification Subcommittee
2010- The Obesity Society Council Member representing basic obesity Research (also serves as council liaison to Basic Science Section, Development Committee and Awards Committee)
2007- Advisory Board, ASN's Nutrient-Gene Interactions Research Interest Section
2007-2008 American Society for Nutrition (ASN) Young Investigators Awards Committee
2006 ASN, Predoctoral Fellowships Committee
2003-2007 Steering Committee, FASEB Summer Conference on Nutrient-

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- Gene Interactions
- 2005 Co-organizer of the FASEB summer conference on Nutrient Control of Gene Expression and Signaling, held in July 2005 at Omni resort, Arizona
- 2004 FASEB summer conference on Obesity; GA; session chair
- 2003 FASEB summer conference on Molecular Nutrition; Snowmass Colorado; organizing committee and session chair; 08/03
- 2003 63rd American Diabetes Association scientific meeting, adipocyte session chair.
- 2003 Invited participant, National Academies workshop on foods and Health (Organized by The Board on Agriculture)
- 2003 Discussion co-leader, NIH Office of Dietary Supplements Strategic Planning Meeting for 2004-2005
- 2003 Symposium co-Organizer for the American Society Nutritional Sciences. (ASNS), Experimental Biology (EB); Improving Human Nutrition through genomics, proteomics and biotechnology).
- 2002 Session co-chair; International Congress on Obesity Brazil.
- 2000-2001 Chair, ASNS Nutrient-Gene Interactions Research Interest Section
- 2001 Co-chair, Nutrition and genomics symposium at EB 2001
- 2000 Organizer, Symposium on adipocyte differentiation and metabolism, sponsored by ASNS, EB 2000
- 1998-2000 Secretary, ASNS Nutrient-Gene Interaction Research Interest Section
- 1998-2000 Program Planning Committee, ASNS
- 1999 FASEB (EB, Washington DC): Co-chair, Minisymposium on fatty acids and gene expression
- 1998 Adipose cell biology section advisory committee, 8th International Congress on Obesity, August 1998
- 1998 Session chair, International Congress on Obesity, 08/98.
- 1997 Session chair, NAASO, Breckenridge, Co, 10/97
- 1997 Session chair, Southeastern Lipid Conference, 10/97

INSTITUTIONAL COMMITTEES:

- 2012-2013 Chair, Texas Tech U, Nutritional Sciences Faculty Search Committee
- 2011-2012 University of Tennessee (UT) College of Veterinary Medicine, Search Committee for Research Dean
- 2011-2012 Coordinator II Search Committee, Office of Sponsored Research Search Committee; UT Institute of Agriculture
- 2011 Chair, Enhanced Retention Review Committee for an Animal Science tenure-track (Extension) Faculty

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2010-2011 Chair, Human Subjects Committee, Animal Science
2010-2011 UT Institute of Agriculture Chancellor's search committee
2010-2011 Department Head, UT Animal Science search committee
2010-2011 Promotion and Tenure Committee, UT Institute of Agriculture
2010 Retention review committee for a tenure-track faculty in UT Animal Science
2010-2011 Search Committee, Three coordinator positions for the UTIA Office of Sponsored Research
2009-2010 Faculty Search Committee (Dairy Research and Extension), UT Animal Science
2010 Member of Program Review Committee for UT Department of Biochemistry, Cell and molecular Biology (BCMB)
2008-2010 Development Committee, UT Animal Science Department
2007-2009 Chair, UT-ORNL Genome Science & Technology (GST) Advising committee
2007 Cumulative Review Committee, UT College of Education, Health and Human Sciences (Post-tenure review of a faculty member)
2007 Faculty Search Committee, Exercise, Sports and Leisure Studies
2007 Beckman Young Proposals review committee, UT Office of Research
2006-2007 Chair, Department of Nutrition Promotion and Tenure Committee.
2006-2007 Faculty Search Committee, Exercise, Sports and Leisure Studies
2006-2007 Faculty Search Committee, BCMB Department
2005-2007 Member, UT College of Education, Health and Human Sciences, International and Intercultural Council
2005-2007 Member, UT College of Education, Health and Human Sciences, Promotion and Tenure Committee
2004 Search committee for UT Dean of the College of Education, Health and Human Sciences (CEHHS)
2006 Faculty Search Committee (Molecular Nutrition), UT Nutrition Department
2006 Faculty Search Committee, UT BCMB Department
2004 Faculty Search committee, UT Exercise Science/Epidemiology
2001-2004 University of Tennessee Graduate Council
2001-2004 University of Tennessee Graduate Curriculum Committee
2003 Faculty Search Committee, UT Nutrition Department
2003-2005 Steering Committee, Tennessee Mouse Genome Consortium
2001-2004 Chair, GST (Genome Science and Technology Student Affairs Committee)
2001-2009 GST Steering Committee
1999-2004 Nutrition Department graduate and human subjects committee

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2002	Search Committee, Institutional Animal Care and Use Committee (IACUC) Coordinator
2002	CEHHS, Bylaws committee
2001	GST Retreat Committee
2001	Chair, Tenure-Track Faculty Search Committee (led to hiring two faculty), Nutrition Department.
2000	Functional Genomics Interdisciplinary Committee
1998-2003	Institutional Animal Care and Use Committee (IACUC) Member
1995-1996	ACC (All College Council) Member, UT, Human Ecology

TEACHING (Excluding theses and dissertations):

NS Graduate Seminar
NS Special topics in Molecular Nutrition
AS/ES 623 (Advanced Topics in Obesity): Topics covered included Adipose Tissue Biology; Dietary Supplements and Bioactive Components of Food; Stress and Brain; Current Topics in Obesity.
BCMB 552/AS 556 (Physiology of Hormones, section on metabolism and endocrinology of obesity and diabetes; Team Teaching)
Cell Biology and Physiology (BCP), graduate and undergraduate guest lectures, University of Bordeaux 1, France; Guest lectures. 2005 and 2007
Nutrition 310/BCMB 310 (Biochemistry, Cell and Molecular biology, Physiological Chemistry): Introductory Biochemistry
Nutrition 416: Clinical Nutrition II
Nutrition 521: Physiological Basis for Diet and Disease (Chronic diseases).
Nutrition 511: Advanced Physiological Chemistry (section on recombinant DNA and gene regulation)
Nutrition 602: Special topic: Obesity: nutritional, physiological, biochemical, molecular, genetic and pharmacological aspects
Nutrition 602: Special topic: Nutrient-Gene Interactions in Health and Disease
Nutrition 493/548: Directed studies, research projects for undergraduate and Graduate students
Research Project Training for Extension Agents, UT Extension

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Other Academic Mentoring Activities (All at UT, unless otherwise indicated):

Nutrition and BCMB Undergraduate student advising/research
UT-ORNL summer research Internship mentor
4H students mentoring sessions
Math Science Regional Center High School student mentoring.
Ronald McNair Post Baccalaureate Achievement Summer Program for Minority
Genome Science and Technology student rotations.
Summer Intern, University of LaSalle-Beauvais (School of Agriculture), France
High School senior projects
Back to School Program for high school inner city students (Boston)

POSTDOCS, VISITING SCHOLARS AND RESEARCH FACULTY MENTORED:

1999-2000 Yanxin Wang, Ph.D. Rutgers. , Previously Research Assistant Prof, Rutgers. Currently, Statistician; Sanofi, New Jersey.
2001-2003 Young-Ran Heo, Ph.D. Chonnam National University, Korea, visiting Postdoc (funded by Korea, KOSEF); currently faculty at Chonnam National University
2001-2003 Sumithra Urs, Ph.D. Mysore Univ. India, currently research associate at the University of Maine
Spring 2006 Mohammad Abidi, M.D. Tunisia, Visiting Scholar. Currently Physician, Tunisia
2005- 2007 Morvarid Soltani-Bejnood, Ph.D., GST, The University of Tennessee (Received in 2007 a poster presentation award from the Nutrient-Gene Interactions Research interest Section of the American Society for Nutrition). Currently lecturer, University of Tennessee and Pellissippi Community College
2009- Nalin Siriwardhana, Ph.D. Cheju National University, South Korea. Currently, Research Assistant Professor at texas Tech University
2012- Shaikh M. Rahman, Ph.D. Japan; Research Assistant Professor

GRADUATE STUDENTS (Chair of thesis or dissertation committees):

Current graduate students:

Monique LeMieux, Ph.D. Candidate (Holds M.S. in Genome Science & Technology, University of Tennessee, 2012). Currently serves as 2012-2013 graduate student representatives for The Obesity Society. Won several travel awards including FASEB-MARC award to Experimental Biology (EB13) and travel to the Institute for Teaching and Mentoring, sponsored by the Compact for Faculty Diversity and BRIDGEs program.

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Arwa Al-Jawadi, M.S. Candidate (Holds B.S. in Biomedical Engineering from Iraq). Enrolled as a Fulbright Scholar

Mandana Pahlavani, Ph.D. candidate (Holds M.S. in Food science and Technology from Iran)

Past/recent graduate students:

Brynn Jones (Voy), Ph.D. 1996; Physiology Program. Associate Professor, The University of Tennessee & Staff Scientist at ORNL, TN

Received several local, regional and national awards including from the Univ. of TN (Science Alliance Award, 1996, travel award 1995), Southeastern Lipid Conference (Founder's Award, 1995), American Physiological Society Student Award (1996).

Kate Claycombe, Ph.D. 1998; Nutrition Program. Previously Faculty at Michigan State University; currently Nutrition Scientist at USDA-ARS, Grand Forks Human Nutrition Research Center, North Dakota.

Received several local, regional and national awards including from the Southeastern Lipid Conference (Founder's Award, 1997), American Society for Nutritional Sciences Student research Award (1997 and 1998) and a postdoctoral fellowship from the ASNS in 1997. Held Scientist III at the USDA Human Nutrition Research Center, Tufts University at Boston then Assistant Professor position at Michigan State University

Melissa Standridge, MS. 2000; Nutrition program. Currently employed as QC and project development staff at Elli Lilly and Company.

Received ASNS student research Award, 1998 and a predoctoral fellowship from ASNS in 1999

Suyeon Kim, MS. 2000

Suyeon Kim, Ph.D. 2004; Nutrition program. Currently a Research Associate at the University of Pittsburg.

Received an ASNS Student Research Award in Experimental Biology, April 2001.

Melissa Derfus, MS. 2002; Nutrition program. Dental School, Univ. FL

Patrick Wortman, MS. 2004; Nutrition program. Nutritionist, Center for Integrative Medicine, Chattanooga, TN

Sarah Fletcher, MS. 2010; Genome Science and Technology Program.

(Elected Student Representative for 2007-2008, Nutrient-Gene Research interest Section of the American Society for Nutrition). Research Assistant, ORNL

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Suzanne Booker, MS, 2010 Animal Science Program. Pursuing Veterinary Medicine Education at the University of Melbourne, Australia

Nishan Kalupahana, Ph.D. 2011 Nutritional Sciences Program. Postdoc at Saint Jude's Children's Hospital in Memphis in Immunology. Currently Faculty at The University of Paradeniya, Colombo, Sri Lanka
Won several university, regional and national awards (including a predoctoral fellowship from the American Heart Association, the American Society for Nutrition (ASN) Graduate Research Award and other ASN-RIS awards, The University of Tennessee Chancellor's award for professional promise, Gamma Sigma Delta and Auburn Boschell Diabetes Symposium awards)

Wenting Xin, M.S. 2012 Animal Science Program
Won third place for an oral presentation at the Boshell Diabetes Symposium at Auburn, March 2012

Membership in other graduate student committees

Served on numerous MS/ PhD committees for the following graduate programs:

Nutritional Sciences
Animal Science
Biochemistry Cell and Molecular Biology
Genome Science and Technology
French
Comparative and Experimental Medicine
Exercise Science
Chemistry

INVITED PRESENTATIONS:

- 1993 **NIH** (Host: Dr. Samuel Cushman, Director of the Diabetes unit):
"Regulation of the fatty acid synthase gene expression in adipocytes"
- 1994 **UT Medical Center:** Host Dr. Roger Carroll; Medical Biology seminar:
"Regulation of the fatty acid synthase gene expression"
- 1995 **FASEB Summer Conferences:** Invited speaker, by Dr. Jim O. Hill, organizer,
Regulation of the human fatty acid synthase gene
- 1995 **FASEB Summer Conferences.** Agouti regulation of gene expression in
adipocytes
- 1996 **Biochemistry Cell & Molecular Biology Department,** UTK. Regulation and
physiological function of the Renin Angiotensin System in adipocytes.
- 1997 **Animal Science Department, UTK.** The endocrine function of adipose tissue:
role in obesity and adipocyte metabolism
- 1997 **American Dietetic Association,** Local Chapter, Invited speaker. "The Mystery
of fat cells"

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- 1998 **Exercise Science, UTK.** Role of adipose tissue in obesity.
- 1999 **UT Medical Center, Medical Biology.** Paracrine function of adipose tissue: Paracrine function of adipose tissue: Role of agouti and angiotensin II in obesity
- 1999 Department of Biochemistry, **East TN State Univ.** Regulation of the fatty acid synthase gene expression by agouti and angiotensin II.
- 1999 Department of Nutrition **UNC, Greensboro.** Secretary function of adipose tissue: Studies on agouti and angiotensin II
- 1999 **IBC conference on obesity and diabetes,** Washington DC. Mechanism of agouti-induced obesity
- 1999 **Steenbok Symposium** on the adipocyte, Univ. of WI, Madison. Paracrine function of the agouti gene product: Implications in the yellow mouse obesity syndrome
- 2000 **ASNS** adipocyte symposium, EB2000, San Diego, CA.
- 2000 **Moroccan Association for Biologists in USA;** Sunny Brook, NY Guest Speaker: Paracrine function of adipose tissue: Agouti, leptin and angiotensins
- 2001 Nutrition Department, **UNC-Chapel Hill.** Endocrine function of adipose tissue, obesity, hypertension and diabetes
- 2001 Department of Nutritional Sciences, **Rutgers University.** Endocrine function of adipose tissue, obesity, hypertension and diabetes
- 2001 **ILSI/ Nutritional Biochemistry meeting in Fez,** Morocco. Diet, obesity and metabolic disorders: Public health implications
- 2001 **FASEB summer conference** on obesity, Snowmass, Co. Paracrine effects of Agouti on adipocyte gene expression
- 2001 **NAASO annual meeting,** Quebec, Canada. The adipocyte renin angiotensin system
- 2002 Annual meeting of the **Korean Nutrition Society,** Korea: Genomics and proteomics in nutrition
- 2002 Genomics & Biotechnology Symposium, **Ewha Womens University,** Seoul, Korea. Nutritional genomics and obesity
- 2002 Obesity Symposium, **Seoul National University,** Seoul, Korea
- 2002 Nutrition Department, **Chonbuk National University,** Korea. Adipocyte biology
- 2002 **Chunnam National University,** Korea. Obesity and the endocrine function of adipose tissue.
- 2003 Berdanier Lecture Series, Department of Foods and Nutrition, **University of GA at Athens.** Endocrine function of adipose tissue and metabolic disorders: Angiotensins and agouti
- 2003 Session chair and speaker: **FASEB summer conference,** Snowmass, Colorado. Mechanisms linking adipocyte angiotensinogen to obesity and diabetes
- 2005 **Human Nutrition Group (INRA/ISTAB), Pessac, FRANCE.** New endocrine functions for adipocytes
- 2005 **CANDIA Experts** Panel, Paris, France. Debate on dairy and weight

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- Management. Review of scientific evidence about calcium and obesity
- 2006 **Virginia Tech**, Nutrition Seminar: Role of the adipocyte renin angiotensin system in obesity and hypertension
- 2006 **Texas A & M**, Seminar, Nutrition Program, College Station, TX
- 2006 Graduate Center for Nutritional Sciences, **University of Kentucky at Lexington**. Role of the adipocyte renin angiotensin system in obesity and hypertension.
- 2006 **The Ohio State University**, Nutrition Seminar: Role of the adipocyte renin angiotensin system in obesity and hypertension
- 2006 Invited Speaker, **Nutrigenomics symposium, Hong Kong Polytechnic University, China**. Genomics of adipose tissue development and endocrine function
- 2007 Department of Molecular Physiology and Biophysics, **Vanderbilt University, Nashville** Seminar: The Renin-Angiotensin System, Adipose Tissue, Obesity and Diabetes: What are the Links?
- 2007 Department of Medicine, Endocrinology, Diabetes and Nutrition and CNRU; **University of Maryland**: The Renin- Angiotensin System, Adipose Tissue, Obesity and Diabetes: What are the Links?
- 2008 Clinical Nutrition Research Center, **University of Alabama-Birmingham**. Seminar: The Renin- Angiotensin System, Adipose Tissue, Obesity and Diabetes: What are the Links?
- 2010 **Auburn University**, Dietary Fatty acids and regulation of adipocyte angiotensinogen and other adipokines. Boschell Diabetes Research Day.
- 2011 Co-Chair and Invited Speaker “Obesity session”, presentation on angiotensins, adipocytes and metabolic disorders. **International Endobolism Congress**, Xiamen, China
- 2011 Invited visit and seminar, **Harbin Medical University**, College of Public Health, Nutrition and Foods Department, Harbin, China. Invited visit seminar: Omega 3 fatty acids, adipose tissue inflammation and insulin resistance
- 2011 Invited speaker, Southeastern Regional Lipid Research Conference “Dietary regulation of adipocyte inflammation& insulin resistance” Callaway Gardens,GA
- 2011 **Chinese Academy of Agricultural; Quality Standards and Testing Institute of Technology** (Ministry of Agriculture-Agricultural Research Center for Quality Standards). Invited visit and seminar: Omega 3 fatty acids, adipose tissue inflammation and insulin resistance
- 2012 **USDA Multistate Project**, Polyunsaturated Fatty Acids in Health and Disease, Minnesota. Presentation on “Omega 3 regulation of adipose tissue inflammation in obesity”, Minneapolis, MN
- 2013 **University of Nebraska, Lincoln**. Invited Seminar “Dietary Regulation of adipose tissue inflammation in obesity and insulin resistance”
- 2013 **Texas A & M University**, College Station, Invited Seminar “Dietary Regulation of adipose tissue inflammation in obesity and insulin resistance”

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2013 Experimental Biology Symposium, Organizer, Chair and speaker. "Metabolic profiling of omega 3 fatty acids effects on diet-induced obesity".

PUBLICATIONS :

1. Hainque, B., Moustaid, N., Quignard-Boulangé, A., Ardoin, B. and Lavau, M. Glucocorticoid binding during the differentiation of 3T3-F442A adipocytes. A possible regulatory effect of insulin. *Biochim. Biophys. Acta.* 931 : 347-353, 1987.
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91. Kalupahana, N.S., Greer, B., Burney, J. and Moustaid-Moussa, N. Perceptions of Behaviors that Influence Children's Obesity Status in the State of Tennessee: a Qualitative Study of Extension Educators. Submitted, *Family & Comm Health.*
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93. Booker S, Kojima CJ, Kalupahana N, Cooper TA, Jenkins SJ, Kattesh HG, Whitlock BK, and Moustaid-Moussa-N. Differential gene expression in subcutaneous and visceral adipose depots in the Sinclair minipig. *Am. J. Physiol.*

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5. AHA Southwest Affiliate; Grant In Aid, (PI) 7/1/13-6/30/15; \$140,000. Inactivation of adipocyte angiotensinogen prevents inflammation and insulin resistance

Recently Completed:

1. *USDA: AFRI*, Co-PD; 02/14/08 to 02/14/13 \$625,000
An integrated research and Extension childhood obesity prevention project
2. Physician's Medical Education and Research Foundation (PMERF); Effects of Bariatric surgery on adipose tissue inflammation; Co-PI; \$9,000; 2012-2013
3. *USDA-NIFA: AFRI*, PI, 5%; 01/01/10 to 12/31/10. Experimental Biology 2010 Symposium "Systems Genetics in Nutrition and Obesity Research"; \$10,000
4. *AHA, GIA, Southeast Affiliate*, PI; 10%; 07/01/07-06/30/2010. Mechanisms linking adipocyte angiotensinogen to insulin resistance; \$155,000
5. *AHA, Predoctoral fellowship*, PI: Kalupahana (Role: Sponsor). 6/2009-7/2011. Metabolic effects of caloric restriction in mice overexpressing angiotensinogen in adipose tissue; \$42,000
6. *USDA-NIFA: NRI*, PI, 15%; 06/01/06 to 5/31/10; Dietary Regulation of the Secretary Function of Adipose Tissue; \$499,000
7. *USDA-NIFA: AFRI* (PI); 15%; 06/15/09 to 06/14/11 Epidemiologic tools to assess obesity-related energy and nutrient intakes; \$149,000.
8. *AgResearch & Extension Innovation Award*. Extractives in switchgrass: an inhibitor for biofuels production or/and a source of value added products? Co-PI. \$25,000; 2011-2012
9. *University of Tennessee AgResearch/USDA (Hatch/multistate)*; 2011-2016 (Terminated due to relocation). **A.** Mechanisms mediating actions of bioactive components of food in obesity, insulin resistance and inflammation (PI). **B.** W1005 USDA Multistate obesity prevention project (member and state liaison PI). **C.** Omega 3 polyunsaturated fatty acids effects in health and disease NC1039 USDA Multistate project (member and state liaison PI)
10. *Physician's Medical Education and Research Foundation* (PMERF); Omega-3 PUFAs, inflammation and insulin resistance PI; \$9,000; 2011-2013 (Terminated due to relocation)
11. *AgResearch & Extension Innovation Award*. Mechanisms mediating anti-inflammatory effects of omega-3 fatty acids; PI. \$25,000; 2012-2013 (Terminated due to relocation)
12. *AgResearch & Extension Innovation Award*. Bioactive Food Components as Therapeutic Agents for Metabolic and Food Borne Illnesses; PI. \$38,000; 2011-2012

Pending:

1. *USDA-AFRI* –Childhood obesity (PI, integrated multistate project)

Naima Moustaid-Moussa, Ph.D.

Not funded (2012-2013)

1. *Department of Defense-CDMRP-Breast Cancer Research Programs (Co-PI)*. Testing Efficacy of a newly developed inhibitor on breast cancer, obesity and inflammation
2. *NIH-R01 (PI)* Inflammation links obesity to breast cancer
3. *USDA-AFRI (Co-PI)* Nanotechnology for delivery of green tea extracts and EGCG and obesity.
4. *USDA-AFRI (PI)* Synergistic anti-inflammatory effects of omega 3 fatty acids and anthocyanins.
5. *USDA-Higher Education Challenge Grant (Role: Co-PI)*