Naima Moustaid-Moussa, Ph.D. FTOS, FAHA

CURRICULUM VITAE

PERSONAL DATA:

Name:	Naïma Moustaïd-Moussa
Citizenship:	U.S.A
DOB:	03/29/1962
Gender	Female
Race/Ethnicity	African American
Family status	Married, three children (Sami, Zaina and Yasmine; 22, 18 and 13 years old, respectively)
Home address:	4107 109th street Lubbock, TX 79423
Tel. (Home):	(806) 853-9043
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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

2016-	**Adjunct Professor**, Department of Plant & Soil Science, Texas Tech University (TTU)
2013-	**Founding Director**, Obesity Research Cluster. Texas Tech University; Lubbock, TX *"Leadership and coordination of an interdisciplinary research cluster focused on translational research from basic discoveries to clinical and community prevention. Cluster members include faculty from TTU and TTU Health Sciences Center" Funded by the President Cluster Hire Tier 2 (2014-2018)*
2012-	**Professor**, (Senior Strategic Hire) Nutritional Sciences **Director**, Nutrigenomics, Inflammation and Obesity Research Laboratory

"Primary research areas: Role of adipose tissue endocrine function in inflammation and metabolic disorders; nutrient-gene interactions; anti-inflammatory effects of plant and food bioactive compounds; genomics, proteomics and metabolomics of obesity and diabetes; animal models and model organisms for human disorders of energy balance; beta cell proteomics and signaling in diabetes; diet, inflammation and obesity-cancer interactions: obesity & bioengineering.
Secondary area: Prevention of childhood obesity

2008-2012	**Professor,** Nutrition and Physiological Genomics. Department of Animal Science (AgResearch) and **Professor,** 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. "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:

2016	Co-inventor, U.S. patent # 9,282,747, issued in March 2016 on antimicrobial and anti-inflammatory effects of the bioenergy crop, switchgrass.
2016-2022	Member of the NIH Clinical and Integrative Diabetes and Obesity (CIDO) Study Section
2016-2018	Elected to the Nutritional Sciences Council Governing Committee of ASN (American Society for Nutrition), representing Cell/Molecular Nutrition
2015-2016	American Heart Association (AHA) Leadership Peer Review Steering Committee, representing the AHA Southwest Affiliate
2015	Fellow of the American Heart Association (FAHA), Council of Lifestyle and Cardiometabolic Health
2015	Pfizer Nutritional Sciences Consumer Healthcare Award, sponsored by the American Society for Nutrition
2014-2016	Member, ASN Education & oversight Committee, representing Nutritional Sciences Council
2013-2015	Chair, American Heart Association Lipids Basic Science Peer review Committee
2013	Co-inventor, US Patent # 14/079,015: Antimicrobial and anti-inflammatory effects of switchgrass-derived extractives
2012	Nominated for Secretary of The American Society for Nutrition
2012	Outstanding Investigator Award, The American Society for Nutrition, Nutrient-Gene Interactions Research interest Section,
2012	Nominated for Vice President of The Obesity Society
2011-2013	Co-Chair, American Heart Association Lipids Basic Science Peer review Committee
2011-	Voting member, AHA Lipids Basic Science Peer review Committee
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
1996	Fellow of The Obesity Society (FTOS)
1995-1998	Career Development Award, The American Diabetes Association

FUNDING and GRANTS AWARDED

2018-2021	**Beef Products Inc. (BPI)** Recommended for funding, contract pending. Role: Lead PI; Co-PIs: Gollahon, Brashears, Loneragan, Echeverry, Koboziev. Multidisciplinary project between COHS, CAS and CASNR
2018-2020	**Qatar Biomedical Research Institute/Qatar Foundation**. Role of heat shock proteins in diabetes and obesity
2018-2020	**USDA Postdoctoral Fellowship** Role: Mentor/Sponsor. Applicant: Dr. Mandana Pahlavani)
2017-2019	**AHA AIREA Award** (Role: Co-PI; PI: Latha Ramalingam); Maternal dietary obesity and metabolic disorders in offspring
2017-2019	**USDA Pre-doctoral Fellowship** (role: mentor/sponsor; applicant: PhD candidate Kembra Albracht-Schulte).
2016-2019	**NIH/NCCIH**- R15 Anti-obesity effects of omega 3 fatty acids in brown adipose tissue; PI.
2015-2017	**USDA-NIFA AFRI** Exploratory Award (PD/PI). Developing the *C elegans* as a model organism for nutritional studies
2015-2017	**American River Nutrition, Inc. (ARN);** Role: Co-PI; Lead PI: Dr. Shen TTUHSC. Effects of Bioactive Compounds (Tocotrienols and Geranylgeraniol) in Type 2 diabetic animals.
2014-2017	**USDA-NIFA AFRI** Conference Grant (PD/PI); EB Nutri-metabolomics symposium and USDA PD research meetings

2014-2018 **TTU President Cluster Hire (Tier 2) Obesity Research Cluster;** PI (ORC Founding Director)

2013-2017 **USDA-NIFA AFRI** Competitive Research Award (Co-PD); Organosolv extractions and value added products from switchgrass

2013-2016 **AHA Southwest Affiliate**; Grant In Aid, (PI). Inactivation of adipocyte angiotensinogen prevents inflammation and insulin resistance

2013-2015 **Sungrant Southeast award (Bioenergy/USDA)** (Co-PD; Lead PI: Dr. Labbe, Univ. TN); Extractives in switchgrass: value added products to prevent adipocyte inflammation.

2013 **Office of the Vice President for Research, Texas Tech University**; PI; Competitive Stimulus Proposal Funds. Angiotensinogen inactivation prevents inflammation

2013 **Office of the Vice President for Research, Texas Tech University**; Competitive Stimulus Proposal Funds; Role: Co-PI; Childhood obesity prevention

2012-2016 **Texas Tech University** Research Start Up Funds,

2008-2013 **USDA NIFA** (CSREES) NRI (AFRI) Competitive Research Award (Role: Co-PD); Integrated Research and Extension childhood obesity project)

2012 **TN AgResearch** Innovative Grant: Mechanisms mediating anti-inflammatory effects of omega 3 polyunsaturated fatty acids (PI)

2012-2013 **Physicians Medical Education & Research Foundation** Research Award (PI): Effects of bariatric surgery on adipose tissue and systemic inflammation

2011-2012 **AgResearch and Extension** Innovative Grant: Anti-inflammatory effects of bioactive components of food, metabolic and food borne illnesses (PI)

2009-2011 **USDA**-NIFA-AFRI competitive research award (Acting PI, grant transfer from Dr. Lisa Jahns after she left UT)
Epidemiologic tools to assess obesity-related energy and nutrient intakes

2010-2011 **UT Center of Excellence** for Livestock and Human Diseases (): Isoflavones and adipocyte inflammation

2011-2013 **Physicians Medical Education & Research Foundation** Research Award (PI): Omega-3 fatty acids and insulin resistance

2009-2011 **Physicians Medical Education & Research Foundation** Research Award (Co-PI): quercetin, adipocyte inflammation and diabetes

2009-2010 **USDA**-AFRI Conference Grant, Experimental Biology symposium on “Systems Genetics in Nutrition and Obesity” (PI)

2008-2012 **University of Tennessee**; Obesity Research Center, Organized Research Unit Funding (PI)

2007-2010 **AHA**, Southeast Affiliate (PI); mechanisms linking adipocyte angiotensinogen to insulin resistance and inflammation

2005-2010 **USDA**-NRI Competitive Research Grant (PI). Dietary regulation of the secretory function of adipose tissue

2006-2008 **Physicians Medical Education & Research Foundation** Research Grant (PI). 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); beta cell signaling and proteomics and mechanisms of diabetes

2005 **USDA**-NRI Conference Grant, for organizing the FASEB Summer Conference (PI); Nutrient control of gene expression and signaling

2005 **AHA** Conference Grant, FASEB Summer Conference (PI); Nutrient control of gene expression and signaling)

2005 NIH Conference grant (R23), FASEB Summer Conference (Co-PI); Nutrient control of gene expression and signaling)

2002-2006 **NIH** (NIA U01 supplement) Screening for aging phenotypes in ENU mutagenized mice (Role: Co-PI on the Aging Supplement)

2001-2006 **AHA**, National Center. Established Investigator Grant (PI; 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)

2003 **USDA**-NRI Conference Grant, (PI). ASNS Symposium on Improving Human Nutrition through genomics, proteomics and biotechnology).

2002-2003 **Physicians Medical Education & Research Foundation** Research Grant (PI): Nutritional regulation of angiotensins.

2002-2004 **UT**, Two Professional Development Awards (PI)

2001-2002 **Physicians Medical Education and Research Foundation** Research Grant (PI): 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)

1999-2001 **AHA**, Grant In Aid, Southern Affiliate (PI) Angiotensin regulation of leptin: role of prostaglandins

1998-2002 **USDA**-NRI Competitive Research Grant (PI). Nutritional regulation of the human fatty acid synthase gene

1999-2000 **Physicians Medical Education and Research Foundation**; two-research grants (PI): Angiotensin-leptin interactions

1997-1999 **Knoll Pharmaceuticals**. (Co-PI); Agouti-Insulin interactions in obesity

1997-1999 **American Heart Association** Grant In Aid, TN Affiliate (PI): Angiotensin regulation of adipocyte gene expression.
1997-1998 **Plastic Surgery Division, UT Medical Center;** Two Research Grant (PI): Human adipose tissue metabolism and gene expression
1995-1998 **The American Diabetes Association** Career Development Award (PI): Cloning and insulin regulation and the adipocyte fatty acid synthase gene
1995-1996 **New Foundation for Diabetes** Research Award (PI): Insulin regulation of human adipocyte gene transcription
1995-1998 **Physicians Medical Education and Research Foundation** Three-Research Grant (PI) 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

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
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

BOOKS EDITED:

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:

2016-22	Member, NIH, Cellular Integrative Diabetes and Obesity study section
2016	Peer reviewer, NIH NIDDK Molecular and Cellular Endocrinology (MCE) Study Section
2015	Peer, Reviewer, NIH NIDDK P01 program renewal study section
2015	Peer Reviewer, Ohio State University; SEEDS: OARDC Research Enhancement Competitive Grants Program proposal
2015	Univ. Washington St Louis, Peer reviewer, Pilot & Feasibility grant, Diabetes Research Center
2013-2015	Chair, AHA Lipids Basic Science Peer review committee
2013	Reviewer, Wellcome Trust Research Awards, UK
2012	Reviewer, Dutch Diabetes Research Foundation, Diabetes Fonds Projects, Netherlands
2012-2013	AHA, Co-Chair, “Lipids Basic Science” Peer review Committee
2012	Oak Ridge Associated Universities, Peer reviewer, state health departments research programs
2011-	AHA, “Lipids” Peer-review committee (National and affiliates)
2010	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-	USDA-NRI Ad Hoc Grant reviewer
1996-1997	AHA Grant review committee, Tennessee Affiliate

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-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:

2018	Chair, Third Year Review, Promotion & Tenure Committee, Department of Nutritional Sciences, TTU
2015-2017	TTU College of Human Sciences Faculty Council

2016	Chair, Post-tenure Review Committee, Department of Nutritional Sciences, TTU
2013-	Director and Chair, Obesity Research Cluster Advisory Board
2015-2017	Member, Faculty Search Committee, Nutritional Sciences
2012-2013	Chair, TTU 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
2010-2012	Chair, Human Subjects Committee, Animal Science
2011	UT Institute of Agriculture Chancellor's search committee
2010	Department Head, UT Animal Science search committee
2010	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
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):

Nutritional Sciences (NS) Graduate Seminar and Obesity Research Seminar
NS Special topics in Molecular Nutrition (Topics covered include nutrient-gene interactions; bariatric surgery and adipocyte inflammation, bioactive food components)
NS Advanced Research Methods
NS Grant Writing/Advanced Research Methods
Honors First year Experience (FYE): Food, Nutrients & Dietary Supplements
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 genetic 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

Other Academic Mentoring Activities:

Texas Tech University:

Mentoring of Honors and other undergraduates (NS, Biology, Biochemistry)

Summer intern from University of Texas Austin, funded in part by TTU Office of Institutional Diversity (2016)

Exchange students (n=4) from the Univ. Paris (MS 1st year): Summer 2013 & 2014

Exchange student from TX, PR, MS, LA (5 undergraduates): Summer Research Institute on Wind, Energy and Medicine (National Wind Research Institute, TTU). Two of these students (**Fitia Razafimanjato** and **Devin Dehle** won the 2014 CASH family Medicine and Science awards, respectively)

University of Tennessee:

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, Statistical Programmer, Novartis
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 scientist, Translational Oncology, University of Michigan
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
2009-2013	Nalin Siriwardhana, Ph.D. Cheju National University, South Korea. Currently R&D Scientist (Vitamin Mineral Supplements) at Reckitt Benckiser
2012-2013	Shaikh M. Rahman, Ph.D. Research Assistant Professor; Ph.D. Japan; currently Assistant Professor at TTU (NS)

2013-2014 Fariba Assadi-Porter, Ph.D. Research Associate Professor
2014- Latha Ramalingam, Ph.D. was postdoc and now Research Assistant Professor at TTU (NS)
2016-2019 Iurii (Yuri) Koboziev, Ph.D. Research Assistant Professor (NS)
2017- Mandana Pahlavani, Ph.D. NIFA Postdoctoral Fellow (2018-2020)

RECENT UNDERGRADUATES and ALL GRADUATE STUDENTS (Research):

Medical students (2015): Yao Liu

Summer student (2015):
Kenneth Pham (Clarke Scholar), now undergraduate at Columbia University
Chinasa Anokwuru (Minority student from University of Texas Austin)

Undergraduate students (research):

- Savana Wilson 2018-
- Alejandra Mera 2018-
- Lexie Harlan Honors Undergrad Research Scholar 2018-
- Arelys Hernandez 2018-
- Toni Oladute 2018-
- Emily K Miller (Honors Undergrad Research Scholar) 2017-
- Robin Okpara 2017-
- Alexandra S Miranda (Honors) 2017-
- Juliana Tovar 2017-
- Abigail Jackson (Honors Undergrad Research Scholar) 2017-
- Stephani Clevenger (Terry Scholar) 2017-
- Tochi Eboh 2017-2018
- Hussain Abidi, Honors Undergrad Research Scholar (2016-2017)
- Alfred Kankam Honors Undergrad Research Scholar (2016-2017)
- Samantha Gonzales (Honors Undergrad Research Scholar & Terry Scholar) 2016-2017. Won FASEB MARC/NIH sponsored travel award for minorities. Finalist at EB. Also won first place Bioactive RIS poster award at the Emerging Leaders in Nutrition poster competition, 2017
- Boontharick Sopontammarak (Undergrad Research Scholar & Honors Thesis) 2016-2018
- London Allen (Honors Undergrad Research Scholar and Terry Scholar); 2015-2016
- Elizabeth Dameron; 2015-2016
- Sara Alhaj; 2014-2017. Won second place Poster award at the Emerging Leaders in Nutrition poster competition, 2016
- Elise Coleman (Honors Undergrad Research Scholar); 2015-2016
- Tram Dinh (Honors Undergrad Research Scholar) 2015-2016
- Fitia Razafimanjato (2013-2015); Outstanding undergraduate senior, BS Nutritional Sciences, 2015

Current graduate students:

Kembra Albracht, Ph.D. candidate and USDA NIFA Fellow

Amal Bouyanfif, M.S. PhD student in Plant Sciences (co-chair) and Nutritional Sciences (minor)

Kalhara Menikdewella, Ph.D. candidate

Rasha Fahmida, Ph.D. student

Shasika Udahawatte, Ph.D. candidate

London Allen, B.S. M.S. student (graduating spring 2018).

Theresa Ramalho, PhD Candidate (University of Sao Paulo), visiting scholar at Texas Tech (2017-2018)

Past/recent graduate students:

Brynn Jones (Voy), Ph.D. 1996; Physiology. 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. 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 before moving to USDA ARS.

Melissa Standridge, MS. 2000; Nutrition. 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; Nutrition. 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. Dental School, Univ. FL

Suyeon Kim, MS. Ph.D. 2004; Nutrition. Currently a Research Associate at the University of Pittsburg. Received an ASNS Student Research Award in Experimental Biology, April 2001.

Patrick Wortman, MS. 2004; Nutrition. R.D.N. Nutritionist at the Center for Integrative Medicine, Chattanooga, TN

Sarah Fletcher, MS. 2010; Genome Science and Technology (Elected Student Representative for 2007-2008, Nutrient-Gene Research interest Section of the American Society for Nutrition). Physician Assistant, Colorado

Suzanne Booker, MS, 2010 Animal Science. Veterinary Medicine DVM, the University of Melbourne, Australia. Veterinary Practice, NY

Nishan Kalupahana, Ph.D. **2011 Nutritional Sciences**. Postdoc at Saint Jude's Children's Hospital in Memphis in Immunology. Currently Professor of Human Nutrition, and Head, Physiology department at the University of Peradeniya, 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) and recently a New Faculty Award from the International Association for the Study of Obesity (WorldObesity)

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

Arwa Aljawadi, **M.S. 2013 Nutritional Sciences**. Fulbright scholar. Won in 2014 a poster award from the Nutrient-Gene Interactions research interest section of ASN and is early career representative at the Obesity and Cancer Section of The Obesity Society.

Monique LeMieux, Ph.D. 2015 from TTU Nutritional Sciences (M.S. in Genome Science & Technology, University of Tennessee, 2012).
Now Assistant professor, Texas Women's University. Served as 2012-2013 graduate student representatives for The Obesity Society. Won several travel awards including FASEB-MARC award to Experimental Biology (EB13) and travel awards to the Institute for Teaching and Mentoring, sponsored by the Compact for Faculty Diversity and the NIH BRIDGEs program. She also won in 2013-14 the Early Career Award from The Obesity Society and the Grand Prize minority award from The American Society for Nutrition. Also awarded the 2015 Horn Professors award for outstanding graduate students.

Arwa Al-Jawadi, Ph.D. 2017, Nutritional Sciences, currently postdoctoral Fellow at Rutgers Medical School, NJ. Was early Career Representative for Obesity-Cancer section for the Obesity Society

Mandana Pahlavani, Ph.D. 2017 Nutritional Sciences; currently postdoctoral Fellow at TTU, Nutritional Sciences. Won First place Outstanding Dissertation award from TTU, in the Biological Sciences category. USDA Postdoc NIFA Fellow (2018-20). Won ASBMB 2016 Travel award to EB.

Nadeeja Wijayatunga, **Ph.D. 2017**, currently, Postdoctoral Fellow at TTU, Kinesiology & Sports Management. Won ASBMB travel award to EB, 2016. Poster award winner, second place, Obesity Research Cluster

Membership in other graduate student committees

Served on numerous MS/PhD committees for the following graduate programs as chair or committee member:

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

Texas Tech University
Nutritional Sciences (chair and committee member)
Animal and Food Science (committee member)
Plant Sciences (Co-chair and committee member)
Biological Sciences (committee member)
Biotechnology (chair)

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 Caroll; 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"
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**.
Secretory 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

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 symposiym, 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”

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

2013 **American Association for Family & Consumer Sciences**, Houston, TX "Dietary Regulation of adipose tissue inflammation in obesity and insulin resistance"

2013 **University of Houston**, Department of Biology & Biochemistry, Center for Nuclear Receptors, Houston, TX "Anti-inflammatory effects of omega 3 fatty acids in obesity and diabetes"

2013 **University of Peradeniya,** Sri Lanka Research Ethics Seminar

2013 **Physiologcal Society of Sri Lanka,** delivered the 2013 K.N. Seneveratne Oration "Novel Functions of the Adipocyte Renin Angiotensin System in Obesity-Associated Inflammation and Insulin Resistance

2014 **Univ. Connecticut, Nutritional Sciences,** The Adipocyte Renin Angiotensin System: Novel Roles in Obesity & Insulin Resistance

2015 **Texas Women's University**, Food and Nutrition Department. The Adipocyte Renin Angiotensin System: Novel Roles in Obesity & Insulin Resistance

2015 **University of Peradeniya School of Medicine**. From White Fat to Brown Fat: Changing Shades of Adipose Tissue with Obesity

2015 **Texas Tech Health Sciences Center- Garrison institute of Aging.** Anti-inflammatory effects of omega 3 fatty acids in obesity and insulin resistance

2016 **Columbia University Institute of Human Nutrition**, Speaker, ABOM/Obesity Course: Obesity, inflammation and energy balance

2016 **Korean Society for Preventive Nutrition and Food Science**, Jeju Island, Korea (invited, October 2016)

2017 **University of Sao Paulo, Brazil.** Angiotensins, Obesity and Inflammation

2017 **UDC, Brazil.** Miniworkshop- Anti-inflammatory effects of omega 3 fatty acids in obesity (March 2017)

2017 **UDC, Brazil.** Invited lecture. Novel roles for angiotensins in obesity-related inflammation (March 2017)

2017 **APS/AFMR** Invited lecture at EB symposium, sponsored by APS/American Federation for Medical Research (AFMR) "New Insights into Insulin Resistance-Molecular Mechanisms and Therapeutic Implications" (April 2017)

2017 **Texas Tech Health Sciences Center at Permian Basin Dean's Obesity Symposium**. (Keynote speaker; September 30) Protective effects of fish oil in obesity and metabolic diseases

2018 **Texas Tech Health Sciences Center at El Paso, Invited Seminar:** Anti-inflammatory effects of omega 3 fatty acids in obesity and insulin resistance (January 2018)

2018 **University of Houston**, Invited Seminar: Role of adipocyte angiotensins in metabolic diseases (February 2018)

2018 **Qatar Computing Research Institute (QCRI) and Anti-Doping Laboratory Qatar (ADLQ):** Novel Roles for the Renin Angiotensin System in Obesity and Insulin Resistance

PUBLICATIONS:

1. Hainque, B., Moustaïd, 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.
2. Agarwal, M.K., Hainque, B., Moustaïd, N. and Lazar, G. Glucocorticoid antagonists. *Febs. Lett.* 217: 221-226, 1987.
3. Hainque, B., Petit, G., Moustaïd, N., Quignard-Boulangé, A., Troupel,S. and Galli,A. Effets de l'insuline, de la dexaméthasone et de la methyl-isobutylxanthine sur la différenciation des fibroblastes 3T3-F442A en adipocytes : mise en évidence du role des polyamines. *Act. Pharm. Biol. Clin.* 4: 365-367, 1987.
4. Moustaïd, N., Hainque, B. and Quignard-Boulangé, A. Dexamethasone regulation of terminal differentiation in 3T3-F442A preadipocyte cell line. *Cytotechnology.* 4: 2285-2293, 1988.
5. Moustaïd, N., Lasnier, F., Hainque, B., Quignard-Boulangé, A. and Pairault, J. Analysis of gene expression during differentiation of 3T3-F442A cells: insulin and dexamethasone control. *J. Cell. Biochem.* 42: 243-254, 1990.
6. Moustaïd, N., Hainque, B., Quignard-Boulangé, A. and Agarwal, M.K. Analysis of glucocorticoid receptor during differentiation of 3T3-F442A preadipocyte cell line in culture. *Biochem. Med. Metab. Biol.* 43: 93-100, 1990.
7. Hainque, B., Guerre Millo, M., Hainault, I., Moustaïd, N., Wardzala, L. and Lavau, M. Long term regulation of glucose transporters by insulin in mature 3T3-F442A cells. *J. Biol. Chem.* 265: 7982-7986, 1990.
8. Moustaïd, N., Sul, H.S. Regulation of expression of the fatty acid synthase gene in 3T3-L1 cells by differentiation and triiodothyronine. *J. Biol. Chem.* 266: 18550-18554, 1991.
9. Shin, D.H., Paulauskis, J.D., Moustaïd, N. and Sul, H.S. Structure and transcriptional regulation of murine p90 with sequence homology to E. coli glycerol-3-phosphate acyltransferase. *J. Biol. Chem. 266*: 23834-23839, 1991.
10. Sul, H.S., Moustaïd, N., Sakamoto, K., Gekakis, N., Smas, C. and Jerkins, A. Nutritional and hormonal regulation of genes encoding enzymes involved in fat synthesis. *In: Nutrition and gene expression*, eds. Hargrove JL and Berdanier C. CRC Press, 1993.
11. Moustaïd, N., Sakamoto, K., Clarke, S., Beyer, R. S. and Sul, H.S. Regulation of fatty acid synthase gene transcription: Sequences that confer positive insulin effect and differentiation-dependent expression in 3T3-L1 preadipocytes are present in the 332 bp promoter. *Biochem. J.* 292, 767-772, 1993.
12. Sul, H.S., Smas, C.M. and Moustaïd, N. Positive and negative regulators of adipocyte differentiation. In: *J. Nutr. Biochem.* 4: 554-562, 1993.
13. Moustaïd, N., Beyer, R.S. and Sul, H.S. Identification of an insulin response element in the fatty acid synthase promoter. *J. Biol. Chem.* 269: 5629-5634, 1994.
14. Misra, S., Sakamoto, K., Moustaïd, N. and Sul, H.S. Control of fatty acid synthase promoter activity by insulin-like growth factor-1 in 3T3-L1 fibroblasts. *Biochem. J.* 298: 575-578, 1994.

15. Moustaïd, N., Jones, B.H. and Taylor, J.W. Insulin increases lipogenic enzyme activity in human adipocytes in primary culture. *J. Nutr.* 126: 865-870, 1996.
16. Jones, B.H., Maher, M.A., Banz, W.J, Zemel, M., Whelan, J., Smith, P., and Moustaïd, N. adipose tissue stearoyl CoA desaturase mRNA is increased by obesity and decreased by polyunsaturated fatty acids. *Amer. J. Physiol*. 271: E44-E49, 1996.
17. Jones, B.H., Kim, J.H., Zemel, M.B., Woychick, R.O., Michaud, E.J., Wilkinson, W.O. and Moustaïd, N. Upregulation of adipocyte metabolism by agouti protein: possible paracrine actions of agouti in yellow mouse obesity. *Am. J. Physiol*. 270: E192-E196, 1996.
18. Kim, J.H., Mynatt, R., Moore, J.W., Woychik, R., Moustaid, N. and Zemel, M.B. The effects of calcium channel blockade on agouti-induced obesity. FASEB, J. 10: 1646-1652, 1996.
19. Jones, B.H. Standridge, M. and Moustaïd, N. Angiotensin II increases lipogenesis in 3T3-L1 and human adipose cells. *Endocrinology* 138: 1512-1519, 1997
20. Jones, B.H. Standridge, M., Taylor, J.W. and Moustaïd, N. Angiotensinogen gene expression in adipose tissue: comparative analysis of obese models and hormonal and nutritional control in adipocytes. *Am.J. Physiol* 42: R236-R242, 1997
21. Claycombe, K., Jones, B., Standridge, M., Guo, Y, Chun, J, Taylor, J and Moustaid-Moussa N., Insulin increase transcription of the fatty acid synthase gene in human adipocytes but not in hepatoma cells. *Am. J. Physiol.* 43: R1253-R1259, 1998
22. Zemel M.B., Moore, J.W., Moustaïd, N., Parks, D., Blanchard, S. and Wilkison, W.O. Effects of a potent melanocortin agonist on the diabetic/obese phenotype in yellow mice. *Int. J. Obes.* 22: 678-683, 1998.
23. Xue B, Moustaid-Moussa, N, and Zemel B. The agouti gene product inhibits lipolysis in human adipocytes via a Ca^{2+}-dependent mechanism. *FASEB J.* 12: 1391-1396, 1998.
24. Moustaïd-Moussa, N. Role of the agouti protein in obesity. *Medecine & Science*. 8-9: 898-905, 1998.
25. Jones, B.H., Standridge, M., Claycombe, K., Smith, P. and Moustaid-Moussa, N. Glucose induces stearoyl CoA desaturase gene expression in 3T3-L1 adipocytes. *The Biochemical J.* 335: 405-408, 1998.
26. Xue, B., Wilkison, W.O., Mynatt, R. Moustaid, N., Goldman, M and Zemel, M.B. The agouti gene stimulates pancreatic ∃-cell Ca^{2+}-signaling and insulin release. *Phyiol. Genomics* 1: 11-19, 1999.
27. Moustaïd-Moussa, N and Claycombe, K. Mechanisms of agouti-induced obesity. *Obes. Res*. 7(5): 506-514, 1999.
28. Shi, H., Moustaid-Moussa, N., Wilkison, W.O. and Zemel, M.B. Role of sulfonylurea receptor in regulating human adipocyte metabolism. *FASEB J.* 13: 1833-1838, 1999.
29. Standridge, M., Alemzadeh, R., Koontz, J., Zemel, M and Moustaid Moussa, N. Diazoxide downregulates leptin and lipid metabolizing enzymes in adipose tissue of Zucker rats. *FASEB J.* 14(3): 455-460, 2000.

30. Moustaid Moussa, N. Paracrine actions of the agouti gene product: Implications in the yellow mouse obesity syndrome. Steenbok Symposium Proceedings: Adipocyte Biology and Hormone Signaling. In Biomedical and Health Research: Vol 37. Ed. J.M. Ntambi. IOS Press, 139-147, 2000.
31. Claycombe, K.J., Xue, B., Mynatt, R.L., Wilkison, W.O., Zemel, M.B. and Moustaid Moussa, N. Regulation of leptin by agouti and insulin. *Physiol. Genomics.* 2: 101-105, 2000.
32. Standridge, M. and Moustaid-Moussa, N. The adipose tissue renin angiotensin system: A link between obesity and hypertension? In press. In *Recent Research Developments in Endocrinology research*. Ed. S.G. Pandalai, Kerala, India. Volume 1: 185-196, 2000.
33. Claycombe, K.J., Wang, Y., Jones, B.H., Kim, S., Zemel, M.B., Wilkinson, W.O., Zemel, M.B., Chun, J and Moustaïd-Moussa, N. Transcriptional regulation of the adipocyte fatty acid synthase gene by agouti: interaction with insulin. Physiol. Genomics 3: 157-162, 2000.
34. Kim, S., and Moustaid-Moussa, N. Secretory, endocrine and autocrine/paracrine function of the adipocyte*. J. Nutr.* 3110S-3115S, 2000.
35. Fried, S.K. and Moustaid-Moussa, N. Culture of human adipose tissue and adipocytes. In: Adipose tissue Protocols. Ed: Gerard Ailhaud. The Humana Press 2001, pp197-212.
36. Morris, K.L., Wang, Y., Kim, S. and Moustaid-Moussa, N. Dietary and Hormonal Regulation of the Mammalian Fatty Acid Synthase Gene. In Nutrient-Gene Interactions in Health and Disease. CRC series in Modern Nutrition. Eds. Naima Moustaid-Moussa and Carolyn Berdanier, CRC Press. pp 1-23, 2001.
37. Kim, S., Dugail, I., Standridge, M., Claycombe, K., Chun, J. and Moustaïd-Moussa, N. The Angiotensin II Response Element is the Insulin Response Element in the Adipocyte Fatty Acid Synthase Gene: The Role of the ADD1/SREBP1c. *Biochem. J.*357 (3): 899-904, 2001
38. Moustaid-Moussa, N., Morris, KL, Kim, S., Joshi, R., Andersen, B., Miyazaki, Y., Heo, Y.R. and Claycombe, C. Regulation of food intake. *Proceedings of the Nutritional Biochemistry meeting*, Fez, Morocco March 2001.
39. Moustaid-Moussa, N. Does adipose tissue contribute to obesity and co-morbid conditions? *Proceedings of the Obesity Symposium*. Pp10-13, 2002. Seoul National University, Korea.
40. Moustaid-Moussa, N. Genomics in Nutritional Sciences. Proceedings of the *Genomics and Biotechnology Symposium*. Pp99-108, 2002. Ewha Women's University, Korea.
41. Moustaid-Moussa, N., Urs, S., Kim, S. and Heo, Y-R. Emerging Genomics Technologies in Nutritional Sciences: Applications to obesity and hypertension research. *Proceedings of the Korean Nutrition Society*, pp29-41, 2002.
42. Kim, S. Whelan, J, Reath, D. and Moustaid-Moussa, N. Angiotensin-II induced leptin secretion in adipocytes is prostaglandin-independent*. J. Nutr*. 132: 1135-1140, 2002

43. Kim, S. Urs, S., Massiera, F., Wortmann, P., Joshi, R., Heo, YR., Andersen, B., Kobayashi, H., Teboul, M., G. Ailhaud, G., Quignard-Boulange, A., Fukamizu, A., Jones, BH, Kim, JH and Moustaid-Moussa, N. Effects of High-Fat Diet, Angiotensinogen (agt) Gene Inactivation, and Targeted Expression to Adipose Tissue on Lipid Metabolism and Renal Gene Expression. *Horm. Metab. Res.* 2002, 34 (11-12): 721-725.
44. Heo, YR., Claycombe, K., Truett, GE. Wright, P., Banz, W., Maher, M., Zemel, M., Jones, B., and Moustaid-Moussa, N. Effects of fatty (*fa*) allele on adipose tissue leptin and lipid metabolism. *Horm. Metab. Res.* 2002, 34 (11-12): 686-690.
45. Abderrahim-Ferkoune A, Bezy O, Chiellini C, Maffei M, Grimaldi P, Bonino F, Moustaid-Moussa N, Pasqualini F, Mantovani A, Ailhaud G, and Amri EZ. Characterization of the long pentraxin PTX3 as a TNFalpha -induced, secreted protein of adipose cells. *J Lipid*. 44(5): 994-1000, 2003.
46. Urs, S., Smith, C., Campbell, B., Saxton, A, Taylor, J, Jones Voy, B. and Moustaid-Moussa, N. Gene Expression Profiling in human preadipocytes and adipocytes by microarray. *J. Nutr.* 134: 762-770, 2004.
47. Wang, Y., Jones Voy, B., Urs, S., Kim, S., Bejnood, M., Quigley, N., Heo, Y.R., Standridge, M., Andersen, B., Dhar, M., Joshi, M., Wortman, P., Taylor, J.W., Chun, J., Leuze, M., Claycombe, K., Saxton, A.M. & Moustaid-Moussa, N. The human fatty acid synthase gene and *de novo* lipogenesis are coordinately regulated in human adipose tissue. *J. Nutr.* 134:1032-1038, 2004.
48. Harkins, J.M., Moustaid-Moussa, N., Chung, Y.J., Penner, K.M., Pestka, J.J., North, C.M., Claycombe, K.J. Expression of interleukin-6 is greater in preadipocytes than in adipocytes of 3T3-L1 cells and C57BL/6J and ob/ob mice. *J Nutr.* 134:2673-7, 2004.
49. Moustaid-Moussa, N., Urs, S., Campbell, B., Zhang, B., Snoddy, J., Taylor, J.W. and Jones Voy. Gene expression profiling in human adipose tissue. *In Genomics and Proteomics in Nutrition.* Eds. Moustaid-Moussa and Berdanier. Marcel Dekker, inc., NY. August 2004.
50. Voy BH, Kim S, Urs S, Joshi R, and Moustaid-Moussa N. The adipose renin angiotensin system: genetics, regulation and physiological function (In *Genomics and Proteomics in Nutrition*, N Moustaid-Moussa and CD Berdanier, eds. Marcel Dekker, New York, NY. August 2004.
51. Yvan-Charvet L, Even P, Bloch-Faure M, Guerre-Millo M, Moustaid-Moussa N, Ferre P, Quignard-Boulange A. Deletion of the angiotensin type 2 receptor (AT2R) reduces adipose cell size and protects from diet-induced obesity and insulin resistance. *Diabetes* 54 (4):991-999, 2005.
52. Ryu, M. Sohn, H., Heo, Y., Moustaid-Moussa, N., and Cha, Y. Differential regulation of hepatic gene expression by starvation versus refeeding following a high-sucrose or high-fat diet. *Nutrition*. 21 (4): 543-552, 2005.
53. Johnson, DK., Rinchik, EM., Moustaid-Moussa, N., Miller, D., Williams, RW., Michaud, EJ., Jablonski, MM., Elberger, A., Hamre, K., Smeyne, R., Chesler, E. and Goldowitz, D. Phenotype screening for genetically determined age-onset disorders and increased longevity in ENU-mutagenized mice. *AGE* 27: 75-90, 2005.

54. Kim, S., Voy, B.H., Huang, T., Koontz, J.W., Quignard-Boulange, A., Hayzer, J., Harp, J.B., and Moustaid-Moussa, N. Angiotensin II uses insulin signaling pathways in 3T3-L1 adipocytes. *Adipocytes* 1(4): 239-248, 2005.
55. Kim, S., Soltani-Bejnood, M., Massiera, F., Ailhaud, G., Teboul, M., Quignard-Boulange, A.,Moustaid-Moussa, N. and Voy, B.H. adipocyte angiotensinogen modulates insulin sensitivity and renal renin angiotensin system. *J. Biomed. Biotechnol* Article ID 27012, pp1-6, 2006
56. Kim, J.H., Stewart, T.P., Soltani-Bejnood, M., Wang, L., Fortuna, J.M., Mostafa, O.A., Moustaid-Moussa, N., Shoieb, A.M., McEntee, M.F., Wang, Y., Bechtel, L., Naggert, J.K.. Phenotypic Characterization of Polygenic Type 2 Diabetes in TALLYHO/JngJ Mice. *J Endocrinol*. 2006 Nov;191(2):437-46.
57. Davis, J., Higginbotham, A., O'Connor, T., Moustaid-Moussa, N., Tebbe, A., Kim, Y.C., Cho, K.W., Shay, N., Adler, S., Peterson, R. and Banz, W. Soy Protein and Isoflavones Influence Adiposity and Development of Metabolic Syndrome in the Obese Male ZDF Rat. *Ann Nutr Metab*. 2007;51(1):42-52. Epub 2007 Mar 14.
58. Dubois, M., Vacher, P., Roger, R. Huyghe, D., Vandewalle, B., Kerr-Conte, J., Pattou, F., Moustaïd-Moussa, N., and Lang, J. Glucotoxicity inhibits late steps of insulin exocytosis. *Endocrinology*. 2007 Apr;148 (4):1605-14. Epub 2007 Jan 4.
59. Yvan-Charvet, L., Massiéra, F., Lamandé, N., Ailhaud, G., Teboul, M., Moustaid-Moussa, N., Gasc, J.M. and Annie Quignard-Boulangé. Angiotensin type 2 receptor reverses obesity but not hypertension induced by overexpression of angiotensinogen in adipose tissue. *Endocrinology* 150: 1421–1428, 2009.
60. Wortman, P, Miyazaki, Y., Kalupahana, N., Kim, S., Hansen-Petrik, M., Saxton, A., Claycombe, K., Voy, BH., Whelan J and Moustaid-Moussa, N. PUFA modulate adipocyte prostaglandin secretion and fatty acid metabolism in 3T3-L1 adipocytes. Biomed Central *Nutrition & Metabolism* 2009, 6:5 doi:10.1186/1743-7075-6-5. Published: 21 January 2009.
61. Kalupahana, N.S. Moustaid-Moussa, N., Kim, J.H., Voy, B.H., Bassett, D. and Lightfoot, T.J. The Regulation of Physical Activity by Genetic Mechanisms: Is There a Drive to be Active? Invited book chapter for the *Encycl. of Sports Medicine* - "*Genetic and Molecular Aspects of Sport Performance*". Eds. Bouchard/ Hoffman. 2010
62. Cho, KW., Lee, OH., Banz, WJ., Moustaid-Moussa, N., Shay, N., Kim, YC. Daidzein and the daidzein metabolite, equol, enhance adipocyte differentiation and PPARgamma transcriptional activity. *J. Nutr. Biochem*. Sep;21(9):841-7, 2010
63. Kalupahana, N.S., Claycombe, K.J., Newman, S.J., Stewart, T., Siriwardhana, N., Matthan, N., Lichtenstein, A.H., Moustaid-Moussa, N. Eicosapentaenoic Acid Prevents and Reverses Insulin Resistance in High-Fat Diet-Induced Obese Mice via Modulation of Adipose Tissue Inflammation. *J. Nutr*. 140: 1915–1922, 2010
64. Kalupahana, N., Voy, BH., Saxton, A. and Moustaid-Moussa, N. Differential effects of macronutrient composition and energy restriction on energy balance and adipose tissue gene expression. Obesity. Feb;19(2):245-54. Epub 2010 Sep 16. 2011
65. Kalupahana, N., and Moustaid-Moussa, N. Overview of "Systems Genetics in Nutrition and Obesity Research" Symposium. *J Nutr;* 141(3):512-514; 2011. Epub 2011 Jan 26; 2011

66. Benoit, R., Papin, J., Vacher, P., Raoux, M., Mulot, A., Dubois, M., Kerr-Conte, Voy, B., Pattou, F., Charpentier, G., Jonas, JC., Moustaid-Moussa, N. and Lang, J. ADCY 8 is central to GLP-1 signaling in pancreatic β-cells. *Diabetologia.* Feb;54(2):390-402; 2011
67. Hsueh, H.W., Zhou, Z., Whelan, J., Allen, K.D., Moustaid-Moussa, N., Kim, J., and Claycombe, K.J. Stearidonic and Eicosapentaenoic Acids Inhibit Interleukin-6 (IL-6) Expression in Mouse Adipose Stem Cells via Toll-like Receptor-2 (TLR2) Mediated Pathway. *J Nutr*. Jul;141(7):1260-1266; 2011. Epub 2011 May 11; 2011
68. Kalupahana, N., Claycombe, K. and Moustaid-Moussa, N. (n-3) Fatty acids alleviate adipose tissue inflammation and insulin resistance: mechanistic insights. *Adv. Nutr*. Jul vol. 2: 304-316, 2011(http://advances.nutrition.org/content/2/4/304.full.pdf)
69. Kalupahana, N., Quignard-Boulange, Voy, BH., Saxton, A. and Moustaid-Moussa, N. Overexpression of angiotensinogen in adipose tissue increases adipose tissue inflammation and glucose intolerance. *Obesity* 20(1):48-56; 2012; Epub 2011 Oct 6.
70. Kalupahana, N., and Moustaid-Moussa, N. The Adipose tissue renin angiotensin: A link between obesity, inflammation and insulin resistance. *Obes. Rev*. Feb;13(2):136-49; 2012. Epub 2011 Oct 31.
71. Kalupahana, N.S., Moustaid-Moussa, N. and Claycombe, K.J. Immunity links obesity and insulin resistance. *Molecular Aspects of Medicine 33(1):26-34, 2012. Epub 2011 Oct 21*
72. Siriwardhana, N., Kalupahana, N.S., Fletcher, S., Xin, W., Claycombe, K.J., Quignard-Boulange, A., Zhao, L., Saxton, A.M., Moustaid-Moussa, N. n-3 and n-6 polyunsaturated fatty acids differentially regulate adipose angiotensinogen and other inflammatory adipokines via NF-KB-dependent mechanisms. *J. Nutr. Biochem.* 23(12):1661-7; 2012
73. Siriwardhana, N., Kalupahana, N.S., Moustaid-Moussa, N. Health benefits of n-3 polyunsaturated fatty acids: eicosapentaenoic acid and docosahexaenoic acid. *Adv. Food. Nutr. Res.* 65:211-22. PMID: 22361189; 2012
74. Siriwardhana, S., Layman, R., Patel, S., Tage, B., Karwandyar, A., Matthew, C., Lampley, J., Rhody, C., Smith, E., Saxton, A.M., Moustaid-Moussa, N. and Wimalasena, J. Role of inflammation in linking obesity to breast cancer. *J. Met. Syndrome;* 1:1; 2012. DOI:10.4172/2167-0943.1000102 http://www.omicsgroup.org/journals/2167-0943/2167-0943-1-102.pdf
75. Maples, J., Fitzhugh, E., Costello, C.A., Bassett, D., Spence, M., Greer, B., Munchen, R., Moustaid-Moussa, N. Physical activity, screen time, and prevalence of overweight/obesity Among Adolescents in a creative, problem-solving program. *Food Nut. Sci.* 3: 568-578, 2012. DOI:10.4236/fns.2012.34079. http://www.scirp.org/journal/PaperInformation.aspx?paperID=18506
76. Kalupahana, N.S., and Moustaid-Moussa, N. The adipose tissue renin-angiotensin system and metabolic disorders: a review of molecular mechanisms. . *Crit Rev Biochem Mol Biol*. Invited Review (peer-reviewed); 47(4):379-90; Jul-Aug 2012. PMID: 22720713
77. Moustaid-Moussa, N., Costello C,A., Greer, B.P., Spence, M., Fitzhugh, E., Muenchen, R., Kalupahana, N.S. Predictors of BMI in female parents whose children participate in

a competitive, creative, problem solving program. *Food Nutr Res*. 2012;56. doi: 10.3402/fnr.v56i0.17787. Epub 2012 Aug 16. PMID: 22912600

78. Zhou, Z., Neupane, M., Zhou, H.R., Wu, D., Chang, C-C., Moustaid-Moussa, N. and Claycombe, KJ. Leptin differentially regulate STAT3 activation in ob/ob mouse adipose mesenchymal stem cells. *Nutrition & Metabolism* (doi:10.1186/1743-7075-9-1092012); 9:109; 2012. http://www.nutritionandmetabolism.com/content/9/1/109
79. Fletcher SJ, Kalupahana NS, Bejnood M, Kim JH, Saxton A, Wasserman D, de Taeye B, Voy BH, Quignard-Boulange A., and Moustaid-Moussa N. Overexpression of renin in the liver impairs glucose tolerance and insulin secretion. *Front. Endocrin.* (Diabetes issue), 3(166):1-9; (Jan 7) 2013
80. Siriwardhana, N., Kalupahana, NS., Cekanova, M., Greer, B., LeMieux, M., Moustaid-Moussa, N., Modulation of adipose tissue inflammation by bioactive food compounds . *J Nutr Biochem*. 24(4):613-23, 2013
81. Xin, W., Kalupahana, N., Booker, S.Siriwardhana, N., Lemieux, M. and Moustaid-Moussa, N. Adipose angiotensinogen silencing decreases inflammation and adipogenesis. *Front. Endocrin. (Diabetes issue)*; 4(10): 1-12, (Mar 11) 2013.
82. Dodson, MV., Boudina, S., Albrecht, E., Bucci, L., Fernyhough-Culver, M., Wei, S., Bergen, W., Amaral, AJ., Moustaid-Moussa, N., Poulos, S., and Hausman GK. A long journey to effective obesity treatments: Is there light at the end of the tunnel? *Exp. Biol. Med.* In Press, 2013
83. Goktas Z, Moustaid-Moussa N, Shen CL, Boylan M, Mo H, Wang S. Effects of bariatric surgery on adipokine-induced inflammation and insulin resistance. Front. Endocrinol. 4:69, 2013
84. Wang, S., Moustaid-Moussa; Chen, L., Mo, H., Shastri, A., Sun, R., Bapat, P., and Shen, C.L. Novel insights of dietary polyphenols and obesity. Invited Review, *J. Nutr. Biochem*. 2013
85. LeMieux, M., AL-Jawadi, A., Wang, Shu and Moustaid-Moussa, N. Metabolic Profiling in nutrition and metabolic disorders. *Adv. in Nutrition*. 4: 548–550, 2013
86. LeMieux, L; Al-Jawadi, A., Wang, S. and Moustaid-Moussa, N. Metabolic Profiling in Nutrition and Metabolic. *Adv. Nutr.* 4: 548–550, 2013
87. Wang, S., Su, R. Nie, S., Sun, M., Zhang, J., Wu, D., and Moustaid-Moussa, N. Application of nanotechnology in improving bioavailability and bioactivity of diet-derived phytochemicals. J. Nutr. Biochem. Invited Review, In Press, 2013
88. Kalupahana, N.S., Jayalath, T., Wang, S. and Moustaid-Moussa, N. Regulation and metabolic effects of white adipose tissue SCD-1 expression; *J.M. Ntambi (ed.) Stearoyl-CoA desaturase genes in lipid metabolism.* Springer Science+Business Media, New York; DOI 10.1007/978-1-4614-7969-7_5; 2013
89. Kalupahana, N.S., Wang, S., Rahman, S.M. and Moustaid-Moussa, N. Function and regulation of macrophage SCD1 in metabolic disorders. *J.M. Ntambi (ed.), Stearoyl-CoA Desaturase Genes in Lipid Metabolism*. Springer Science+Business Media New York; DOI 10.1007/978-1-4614-7969-7_6; 2013
90. Wang, S., Miller, B., Matthan, N.R., Goktas, Z., Wu, D., Reed, D.B., Yin, X., Grammas, P., Moustaid-Moussa, N., Shen, C-L., Lichtenstein, A. Aortic Cholesterol Accumulation

Correlates with Systemic Inflammation but not Hepatic and Gonadal Adipose Tissue Inflammation in LDL Receptor Null Mice. In press, *Nutrition Research*, 2013

91. Wang, S., Moustaid-Moussa, N.; Chen, L., Mo, H., Shastri, A., Sun, R., Bapat, P., and Shen, C.L. Novel insights of dietary polyphenols and obesity. Invited Review, J. Nutr. Biochem. 25 (1):1-18; 2014
92. Wang, S., Su, R. Nie, S., Sun, M., Zhang, J., Wu, D., and Moustaid-Moussa, N. Application of nanotechnology in improving bioavailability and bioactivity of diet-derived phytochemicals. *J. Nutr. Biochem.* 25 (4): 363-76; 2014
93. LeMieux, L; Aljawadi, A., and Moustaid-Moussa, N. Nutrimetabolomics. *Adv Nutr.* 5(6):792-794; 2014
94. Crowe KM, Allison D and Bioactive Food Components Conference Speakers (Naima Moustaid-Moussa one of 21 collaborators). Evaluating bioactive food components in obesity and cancer prevention. *Crit Rev Food Sci Nutr.* 55(5):732-734; 2015
95. LeMieux, M., Kalupahana, N., Scoggin, S., and Moustaid-Moussa, N. EPA reduces adipocyte inflammation independent of adiposity. *J. Nutr.* 145(3):411-417, 2015.
96. Sams, V., Blackledge, C., Wijayatunga, N., Barlow, P., Mancini, M., Mancini, G., and Moustaid-Moussa, N. Effect of Bariatric Surgery on Systemic and Adipose Tissue Inflammation. *Surgical Endoscopy*; 30(8):3499-504, 2016
97. LeMieux M, Ramalingam L, Mynatt R, Kalupahana N, Kim J, Moustaid-Moussa N. Inactivation of Adipose Angiotensinogen Reduces Adipose Tissue Macrophages and Increases Adipose Cell Metabolic Activity. Obesity; 24(2):359-67; 2016
98. Rahman, S.M., Baquero, K.C., Choudhury, M., Janssen, R.C., de la Houssaye, B.A., Sun, M., Miyazaki-Anzai, S., Wang, S., Moustaid-Moussa, N., Miyazaki, M., Friedman, J.E. C/EBPβ in bone marrow is essential for diet induced inflammation, cholesterol balance, and atherosclerosis. *Atherosclerosis.* 2016 Jul; 250:172-9. doi: 10.1016/j.atherosclerosis.2016.03.040.
99. Parkman, J.K., Mao, X., Dillon, X., Gudivada, A., Moustaid-Moussa, N., Saxton, A.M. and Kim, J.H. Genotype-dependent metabolic responses to semi-purified high-sucrose high-fat diets in the TALLYHO/Jng vs. C57BL/6 mouse during the development of obesity and type 2 diabetes. *Exp. Clin. Endocrinol. Diabetes.* 124(10):622-629, 2016
100. Pahlavani, M., Razafimanjato, F., Kalupahana, N., Ramalingam, L., Moussa, H., Scoggin, S. and Moustaid-Moussa, N. Eicosapentaenoic Acid Regulates Brown Adipose Tissue Metabolism in High Fat Fed Mice and in Clonal Brown Adipocytes. *J. Nutr. Biochem.*, 39:101-109, 2017
101. Ramalingam, L., Menikdewella, K., LeMieux, L., Dufour, J., Kalupahana, N., and Moustaid-Moussa, N. The renin angiotensin system, oxidative stress and mitochondrial function in obesity and insulin resistance. Biochem. Biophys. Acta. Molecular basis for Disease. *Biochim Biophys Acta.* 1863(5):1106-1114, 2017
102. S. Liyanage, R.S. Dassanayake, A. Bouyanfif, E. Rajakaruna, L. Ramalingam, N. Moustaid-Moussa, N. Abidi. Optimization of cryostat temperature conditions for trans-reflectance mode FTIR microspectroscopic imaging of biological tissues. *MethodsX,* 4; 118-127, 2017.

103. Pahlavani, M., Kalupahana, N.S., Ramalingam, L., Moustaid-Moussa, N. Regulation and Functions of the Renin-Angiotensin System in White and Brown Adipose Tissue. Compr. Physiol. 7(4):1137-1150; 2017
104. Li S, Ning H, Ye Y, Wei W, Guo R, Song Q, Liu L, Liu Y, Na L, Niu Y, Chu X, Feng R, Moustaid-Moussa N, Li Y, Sun C. Increasing extracellular Ca2+ sensitizes TNF-alpha-induced vascular cell adhesion molecule-1 (VCAM-1) via a TRPC1/ERK1/2/NFκB-dependent pathway in human vascular endothelial cells. *Biochim Biophys Acta. (Mol. Cell Res.)* 2017 Jun 3;1864(10):1566-1577.
105. Pahlavani, M., Ramalho, T, Jayarathne, S., Koboziev, I., Ramalingam. L., Filgueiras, L.R., Moustaid-Moussa, N. Adipose tissue inflammation in insulin resistance: Review of mechanisms mediating anti-inflammatory effects of omega-3 polyunsaturated fatty acids. *J. Inv. Med.* 65(7):1021-1027; 2017
106. Allen, L., Ramalingam, L., Menikdiwela, M., Scoggin., Shen, C.L., Tomison, M.D., Kaur, G., Dufour, J., Chung, E., Kalupahana, N.S., Moustaid-Moussa, N. Effects of δ-Tocotrienol on Obesity-Related Adipocyte Hypertrophy, Inflammation, and Non-Alcoholic Fatty Liver Disease in High Fat Fed Mice. *J. Nutr. Biochem.* 48:128-137, 2017
107. Bouyanfif A, Liyanage S, Hewitt JE, Vanapalli SA, Moustaid-Moussa N, Hequet E, Abidi N. FTIR imaging detects diet and genotype-dependent chemical composition changes in wild type and mutant *C. elegans* strains. Analyst. 142(24):4727-4736; 2017
108. Jayarathne, S., Koboziev, I., Park, O.H., Oldewage-Theron, W., Shen, C.L., Moustaid-Moussa, N. Anti-Inflammatory and Anti-Obesity Properties of Food Bioactive Components: Effects on Adipose Tissue. *Prev. Nutr. Food.* 22(4), 251-262.
109. Aljawadi, A., Moussa, H., Ramalingam, L., Dharamawardhane, S., Gollahon, L., Gunaratne, P., Rahman R., and Moustaid-Moussa, N. Protective properties of n-3 fatty acids and implications in obesity-associated breast cancer. *J. Nutr. Biochem.* 53:1-8; 2017.
110. D'Costa, B.., Moustaid-Moussa, N., Gollahon, L.S. The Role of Exosomes in Breast Cancer: What Have We Learned in Ten Years? (Chapter 1) In: Triple-Negative Breast Cancer: Biomarkers, Emerging Therapeutic Strategies and Clinical Challenges. Editors: Marion Montgomery. Nova Science Publishers. Series: Cancer Etiology, Diagnosis and Treatments. ISBN: 978-1-53612-372-2; 2017
111. Wijayatunga N, Pahlavani M, Kottapalli R., Dawson J, Gunaratne P., Coarfa C., Rajapakshe K., Kalupahana N., Moustaid-Moussa N. Adipose Depot-Specific Differences in Transcriptome and MicroRNA Expression in High Fat Diet Induced Obese Mice. *Oncotarget.* 9:9246-9261, 2018 https://doi.org/10.18632/oncotarget.24226
112. Wijetunge, S., Kalupahana, NS., Ratnayake, RMCJ., Kotakadeniya, HMSRB., Rosairo, S., Albracht-Schulte, K., Ramalingam, L., and Moustaid-Moussa, N. Serum resistin and visceral adipocyte hypertrophy are associated with dysglycemia in South Asian women. *J. Clin. Endo. Metab.* Pending Review
113. Pahlavani M, Wijayatunga N., Kottapalli R., Dawson J, Gunaratne P., Coarfa C., Rajapakshe K., Kalupahana N., Moustaid-Moussa N. Transcriptome and miRNA profiling in brown adipose tissue of high fat fed mice supplemented with eicosapentaenoic acid. *Biochem. Biophys. Acta Mol Cell Lipids.* Pending Review