Latha Ramalingam, Ph.D.

Curriculum Vitae

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EDUCATION

B.Pharm	Sri Ramachandra Medical College, Chennai, India School of Pharmacy GPA: 7.4/10	2005
M.Tech	Vellore Institute of Technology, Vellore, India School of Biotechnology GPA: 9.3/10	2007
PhD	Indiana University, School of Medicine, Indianapolis IN Department of Biochemistry and Molecular Biology GPA: 3.8/4	2014

PROFESSIONAL EXPERIENCE:

08/2008- 01/2014	Research Assistant, Indiana University School of Medicine, IN.
02/2014- 08/2014	Postdoctoral fellow, Indiana University School of Medicine, IN.
09/2014- 11/2014	Postdoctoral fellow, Texas Tech University, Lubbock, TX.
12/2014- Present	Research Assistant professor, Department of Nutritional Sciences Texas Tech University (TTU), Lubbock, TX.

HONORS AND AWARDS:

2006	University Fellowship, Vellore Institute of Technology.
2008	University Fellowship, Indiana University School of Medicine.
2008	Graduate Student Travel Fellowship, Indiana University School of Medicine.
2012	Peggy Gibson Award for research award competition, Indiana University School of medicine.
2012	Fellowship, American Heart Association.
2014	Peggy Gibson Award, Indiana University School of Medicine.
2014	Best Research paper, Indiana University School of medicine.
2015	Pilot & Feasibility Award, Obesity Research Cluster, Texas Tech University.
2015	Early Career Grant challenge winner, Obesity Society, USA.
2016	IJO Young Investigator award, 13th International Congress of Obesity, Vancouver, Canada.
2017	Undergraduate Research Support, College of Human Sciences Texas Tech University

2017 Early Career Travel Award for International Congress of Nutrition, Argentina 2017.
2018 Open Access Award, Texas Tech University.
2018 Undergraduate Research Support, College of Human Sciences Texas Tech University

Research support (Ongoing):

External:

1. 08/16-08/20 Co-PI, Title: Anti-obesity Effects of Omega 3 Fatty Acids in Brown Adipose Tissue. NIH, NCCIH R15
2. 07/18-08/20 Co-PI, Title: Protective effects of fish oil in Alzheimer's disease. NIH NCCIH R15 Supplement
3. 05/18-04/20 Co-PI, Title: Mechanisms Mediating Anti-inflammatory Effects of Omega 3 fatty acids in Metabolic Disorders: Role of lipid Mediators and miRNAs. Sprint TTU/ FAPESP Brazil.
4. 01/19-12/21 Co-PI, Synergistic Anti-inflammatory Effects of Omega 3 Fatty Acids and Anthocyanins in Dietary Obesity and Insulin Resistance. USDA
5. 01/19-12/21 Co-PI, Microbiome mediated anti-obesity and anti-inflammatory effects of curcumin

Internal:

09/19-09/20 PI, Role of Fish oil in paternal obesity. College of Human Sciences, TTU.

Research Support (Past):

External:

1. 07/17-06/19 PI, Title: Early Life Programming by Omega-3s Fatty Acids in Obesity associated
2. Inflammation. AHA, AIREA
3. 11/14-12/17 Co-PI, Title: Effects of Bioactive Compounds (Tocotrienols and Geranylgeraniol) on Type 2 Diabetic Rats. American River Nutrition
4. 11/14-12/17 PI, Title: Role of Omega-3's in Maternal Obesity. Obesity Society
5. 07/12-01/14 PI, Title: Role of Doc2b in Glucose Homeostasis. American Heart Association.

Internal:

1. 08/18-08/19 PI, Undergraduate Research experience Grant, College of Human Sciences, TTU. Role of Omega-s and Vitamin D in Obesity. Students: Brennan Mabry Honors College, TTU)
2. 08/17-08/18 PI, Undergraduate Research experience Grant, College of Human Sciences, TTU. Role of Omega-s in Maternal Obesity. PI: Latha Ramalingam; Student: Stephani Clevenger, Terry Scholar, TTU)
3. 08/16-08/17 Co-PI, Title: Identification of Novel Pathways and miRNA Targets Mediating Effects of Angiotensin's in Obesity-Related Diabetes & Pancreatic Function. Obesity Research Cluster, TTU.
4. 08/16-08/17 Co-PI, Title: Developing an Integrated Biomimetic Human Adipose Tissue Microchip to Study Obesity-Associated Disorders. Obesity Research Cluster, TTU.
5. 08/16-08/17 Co-PI, Title: Modeling of Mammography Radiation Exposure on Human Adipose Breast Cancer Tissue Interaction. Obesity Research Cluster, TTU.
6. 08/15-08/16 PI, Title: Effects of EPA in Maternal Obesity. Obesity Research Cluster, TTU.
7. 08/15-08/16 Co-PI, Title: Long-term Effects of Early-life Exposure to Olanzapine on weight, metabolism, and behavior and nutritional Interventions to prevent those. Obesity Research Cluster, TTU.
8. 03/15-12/15 Co-PI, Title: International Research/Development Award: Biomarkers of Insulin Resistance, Fatty Liver and Obesity in Southeast Asian Population. Office of International Affairs, TTU

PUBLICATIONS:

1. Jewell JL, Oh E, **Ramalingam L**, Kalwat MA, Tagliabracci VS, Tackett L, Elmendorf JS, Thurmond DC. Munc18c phosphorylation by the insulin receptor links cell signaling directly to SNARE exocytosis. J Cell Biol. 2011 Apr 4;193(1):185-99.
2. **Ramalingam L**, Oh E, Yoder SM, Brozinick JT, Kalwat MA, Groffen AJ, Verhage M, Thurmond DC. Doc2b is a key effector of insulin secretion and skeletal muscle insulin sensitivity. Diabetes. 2012 Oct;61(10):2424-32.
3. **Ramalingam L**, Oh E, Thurmond DC. Novel roles for insulin receptor (IR) in adipocytes and skeletal muscle cells via new and unexpected substrates. Cell Mol Life Sci. 2013 Aug; 70(16):2815-34
4. **Ramalingam L**, Yoder SM, Oh E, Thurmond DC. Munc18c: A controversial regulator of peripheral insulin action. Trends Endocrinol Metab. 2014 Jul; pii: S1043-2760(14)00109.
5. **Ramalingam L**, Oh E, Thurmond DC. Doc2b enrichment enhances glucose homeostasis in mice via potentiation of insulin secretion and peripheral insulin sensitivity. Diabetologia. 2014 Jul;57(7):1476-84.
6. **Ramalingam L**, Lu J, Hudmon A, Thurmond DC. Doc2b serves as a scaffolding platform for concurrent binding of multiple Munc18 isoforms in pancreatic islet β- cells. Biochem J. 2014 Dec 1;464(2):251-8.
7. Tunduguru R, ChiuTT, **Ramalingam L**, Thurmond DC. Signaling of the p21-activated kinase (PAK1) coordinates insulin-stimulated actin remodeling and glucose uptake in skeletal muscle cells. Biochem Pharmacol. 2014 Sep; pii: S0006-2952(14)00523-1.
8. Lemieux M, **Ramalingam L**, Mynatt R, Kalupahana N, Kim J, Moustaid-Moussa N. Inactivation of Adipose Angiotensinogen alters Metabolic and Inflammatory Phenotypes in Diet-Induced Obese Mice. Obesity (Silver Spring, Md.). 2016, Volume 24, Issue 2, pages 359–367.
9. Ahn, M, Yoder SM, Wang ZW, Oh E, **Ramalingam L,** Tunduguru R, Thurmond DC. The p21-activated kinase (PAK1) is involved in diet-induced beta cell mass expansion and survival in mice and human islets. Diabetologia. 2016, Oct;59 (10):2145-55.
10. **Ramalingam L**, Menikdewella K, Lemieux M, Dufour J, Kalupahana N, Moustaid-Moussa N. The renin angiotensin system, oxidative stress and mitochondrial function in obesity and insulin resistance. Biochim Biophys Acta. 2017 May;1863 (5):1106-1114.
11. Liyanage, S., Dassanayake, R. S., Bouyanfif, A., Rajakaruna, E., **Ramalingam, L**., Moustaid-Moussa, N., Abidi, N. Optimization and validation of cryostat temperature conditions for trans-reflectance mode FTIR microspectroscopic imaging of biological tissues. MethodsX, 4, 2017, Feb 2;4:118-127
12. Pahlavani, M., Razafimanjato, F., **Ramalingam, L**., Kalupahana, N. S., Moussa, H., Scoggin, S., Moustaid-Moussa, N. Eicosapentaenoic acid regulates brown adipose tissue metabolism in high-fat-fed mice and in clonal brown adipocytes. The Journal of nutritional biochemistry, 2017 Jan;39:101-109
13. Allen, L., **Ramalingam, L.,** Menikdiwela, K., Scoggin, S., Shen, C. L., Tomison, M. D., Kaur, G., Dufour, J. M., Chung, E., Kalupahana, N. S., Moustaid-Moussa, N. Effects of delta-tocotrienol on obesity-related adipocyte hypertrophy, inflammation and hepatic steatosis in high-fat-fed mice. Journal of Nutritional Biochemistry. 2017. 48, 128-137
14. Pahlavani, M., Ramalho, T., Koboziev, I., Lemieux, M., Jayarathne, S., **Ramalingam, L.**, Figueiras, L., Moustaid-Moussa, N. Adipose tissue inflammation in insulin resistance: review of mechanisms mediating anti-inflammatory effects of omega-3 polyunsaturated fatty acids. Journal of Investigative Medicine, 2017 Oct; 65 (7):1021-1027.
15. Pahlavani, M, Kalupahana, N, **Ramalingam, L,** Moustaid-Moussa, N. Function of The Renin Angiotensin System in Adipose Tissue. Comprehensive Physiology. Compr Physiol. 2017 Sep 12;7(4):1137-1150.
16. Wijayatunga, N., Pahlavani, M., Kalupahana, N. S., Kottapalli, R., Gunaratne, P. H., Coarfa, C., Rajapakshe, K., **Ramalingam, L**., Moustaid-Moussa, N. Adipose Depot- An integrative transcriptomic approach to identify depot differences in genes and microRNAs in adipose tissues from high fat fed mice. Oncotarget. 2018 Jan 13;9(10):9246-9261.
17. Albracht-Schulte K, Kalupahana NS, **Ramalingam L**, Wang S, Rahman SM, Robert-McComb J, Moustaid-Moussa N. Omega-3 fatty acids in obesity and metabolic syndrome: a mechanistic update. J Nutr Biochem. 2018 Feb 27; 58:1-16
18. Al-Jawadi A, Moussa H, **Ramalingam L**, Dharmawardhane S, Gollahon L, Gunaratne P, Layeequr

Rahman R, Moustaid-Moussa N. Protective properties of n-3 fatty acids and implications in obesity-associated breast cancer. J Nutr Biochem. 2018 Mar; 53:1-8.

19. Maqsudur Rashid A***, Ramalingam L***, Al-Jawadi A, Moustaid-Moussa N, Moussa H. Low dose radiation, inflammation, cancer and chemoprevention. Int J Radiat Biol. 2018. *equal contribution
20. Shen CL, Kaur G, Wanders D, Sharma S, Tomison MD, **Ramalingam L**, Chung E, Moustaid-Moussa N, Mo H, Dufour JM. Annatto-extracted tocotrienols improve glucose homeostasis and bone properties in high-fat diet-induced type 2 diabetic mice by decreasing the inflammatory response. Sci Rep. 2018 Jul 27;8(1):11377.
21. Liyanage S, Bouyanfif, A, **Ramalingam, L**, Moustaid-Moussa N, Hequet E, Abidi N. Changes in adipose tissues in response to low-fat/high fat diet investigated by FTIR microspectroscopy imaging, Vibrational Spectroscopy, 97 (2018) 91-101.
22. Pahlavani M, Wijayatunga N, Kalupahana NS, **Ramalingam** L, Gunaratne PH, Coarfa C, Rajapakshe K, Kottapalli P, Moustaid-Moussa N. Transcriptomic and microRNA analyses of gene networks regulated by eicosapentaenoic acid in brown adipose tissue of diet-induced obese mice. Biochim Biophys Acta Mol Cell Biol Lipids. 2018 Dec;1863(12):1523-1531
23. **Ramalingam L**, Menikdiwela K, Clevenger S, Eboh T Allen L, Scoggin S, Koboziev I, Rashid AM, Moussa H and Moustaid-Moussa N. Maternal and postnatal supplementation of fish oil improves metabolic health of offspring. Obesity (Silver Spring). 2018 Nov;26(11):1740-1748.
24. Wijetunge, s., Ratnayake, R.M.C.J, Kotakadeniya, H.M.S.R.B, Rosairo, S., Albracht, K., **Ramalingam, L**., Moustaid-Moussa, N., Kalupahana, N. Serum resistin and visceral adipocyte hypertrophy are associated with dysglycemia in South Asian women. Nutr Diabetes. 2019 Feb 18;9(1):5.
25. Albracht-Schulte K, Gonzalez S, Jackson A, Wilson S, **Ramalingam L**, Kalupahana NS, Moustaid-Moussa N Eicosapentaenoic Acid Improves Hepatic Metabolism and Reduces Inflammation Independent of Obesity in High-Fat-Fed Mice and in HepG2 Cells. Nutrients. 2019 Mar 12;11(3).
26. Pahlavani, M, **Ramalingam, L**, Scoggin, S, Kalupahana, N.S, Festuccia, W.T, Moustaid-Moussa N. Eicosapentaenoic acid reduces adiposity and glucose intolerance, and increases oxygen consumption, in part via pgc-1α, and independently of UCP1. Mol Nutr Food Res. 2019 Apr;63(7): e1800821.
27. Chung E, Campise SN, Joiner HE, Tomison MD, Kaur G, Dufour JM, Cole L, **Ramalingam L**, Moustaid-Moussa N, Shen CL. Effect of annatto-extracted tocotrienols and green tea polyphenols on glucose homeostasis and skeletal muscle metabolism in obese male mice. J Nutr Biochem. 2019 May;67:36-43
28. Menikdiwela K, **Ramalingam L**, Allen L, Scoggin S, Kalupahana N, and Moustaid-Moussa N. Mechanisms Linking Adipocyte Renin Angiotensin System, Inflammation and Endoplasmic Reticulum (ER) Stress. *Sci Rep.* 9 (1):8481, pages 1-14; 2019
29. Kumar N, Willis A, Satbhai K, **Ramalingam** L, Schmitt C, Moustaïd-Moussa N, Crago J. Comparative Lipid Peroxidation and Apoptosis in Embryo-Larval Zebrafish Exposed to Three Azole Fungicides, Tebuconazole, Propiconazole, and Myclobutanil, at Environmentally Relevant Concentrations. *Environ Toxicol Chem*. 38(7):1455-1466, 2019
30. Ramalho T, **Ramalingam L**, Filgueiras L, Festuccia W, Jancar S, Moustaid-Moussa Naima. Leukotriene-B4 modulates macrophage metabolism and fat loss in type 1 diabetic mice. J Leukoc Biol. 2019 Sep;106(3):665-675. doi: 10.1002/JLB.MA1218-477RR. Epub 2019 Jun
31. Albracht, K., Rosairo, S., **Ramalingam, L**., Wijetunge, s., Ratnayake, R.M.C.J, Kotakadeniya, H.M.S.R.B, Dawson, J., Kalupahana, N., Moustaid-Moussa, N. Metabolic Changes Underlying Interactions Between Obesity and Non-Alcoholic Fatty Liver Disease in South Asian Females. Diabetes, Metabolic syndrome and obesity (in press).
32. Kumar N, Willis A, Satbhai K, **Ramalingam L,** Schmitt C, Moustaïd-Moussa N, Crago J. Developmental Toxicity in Embryo-Larval Zebrafish (Danio rerio) Exposed to Strobilurin Fungicides (Azoxystrobin and Pyraclostrobin). Environmental Science and Technology (in press).

Invited Talks/Lectures:

PRESENTATIONS:

1. **Seminar**, Role of Doc2b in glucose homeostasis. Obesity Research cluster, Texas Tech University, 2014.
2. **Lecture,** Diabetes (NS 6340) 2016
3. **Lecture,** Research Methods and Grant writing course (NS 6310) 2016
4. **Lecture,** Research Methods and Grant writing course (NS 6310) 2017
5. **Lecture,** Research Methods and Grant writing course (NS 6310) 2018

6. **Lecture,** Introduction to Omega-3 fatty acids (NS 2340) 2017
7. **Lecture,** Diabetes (NS 6340) 2018
8. **Seminar**, Role of Omega-3 in early life programming. Texas Women University. April 2018.
9. **Lecture,** Research Methods and Grant writing course (NS 6310) 2019
10. **Lecture,** Role of Micronutrients in Maternal obesity (AFS 5210) 2018
11. **Seminar**, Role of Omega-3 in early life programming. Nutritional Sciences, TTU September 2019.

Conference Talks:

1. Effects of Omega-3's on maternal obesity. Obesity Society, 2015.
2. Albracht-Schulte K, Ramalingam L, Kalupahana N, Moustaid-Moussa N, Gunaratne P. Eicosapentaenoic Acid (EPA) Supplementation Regulates Hepatic Carbohydrate and Lipid Metabolism. Proceedings of the 33th Ann. Scientific Meeting of The Obesity Society; 2015 Nov; Los Angeles, CA
3. Adipose angiotensinogen overexpression promotes adipose associated inflammation and endoplasmic reticulum stress. International Congress of Obesity, 2016.
4. Delta-tocotrienol regulates lipid metabolism in livers of high fat fed mice. American Society of Nutrition, 2016.

Conference Presentations

1. **Ramalingam L**, Oh E, Verhage M, Groffen AJ, Thurmond DC. Impaired glucose tolerance, insulin sensitivity and biphasic insulin release in Doc2b knockout mice. American Diabetes Association, 71st Annual Scientific Sessions 2011. San Deigo, CA.
2. Garrison RL, Scoggin S, Siriwardhana N, Labbé N, Ownley B, Gwinn K, D'Souza D, **Ramalingam L**, Moustaid-Moussa N. Anti-inflammatory effects of extracts from a bioenergy crop, switchgrass, in adipocytes. Southeastern Sun Grant Conference; 2015 February; Auburn, AL.
3. Albracht-Schulte KD, **Ramalingam L**, Kalupahana NS, Brocard C, Moustaid-Moussa N. Eicosapentaenoic acid (EPA) supplementation regulates hepatic lipid metabolism and inflammation in diet Induced obese mice. Annual Scientific Meeting of Experimental Biology; 2015 Mar; Boston, MA.
4. Pahlavani M, Razafimanjato F, Kalupahana NS, Scoggin S, **Ramalingam L**, Moustaid-Moussa N. Eicosapentaenoic acid increase brown adipose tissue thermogenic markets in high fat fed mice. Annual Scientific Meeting of Experimental Biology; 2015 Mar; Boston, MA.
5. **Ramalingam L**, LeMieux M, Scoggin S, Adrovet Z, Kalupahana N, Moustaid-Moussa N. Adipose angiotensinogen overexpression promotes adipose associated inflammation and endoplasmic reticulum stress. Annual Scientific Meeting of Experimental Biology; 2015 Mar; Boston, MA.
6. Albracht-Schulte K, **Ramalingam L**, Kalupahana N, Moustaid-Moussa N, Gunaratne P. Eicosapentaenoic Acid (EPA) Supplementation Regulates Hepatic Carbohydrate and Lipid Metabolism. Proceedings of the 33th Ann. Scientific Meeting of The Obesity Society; 2015 Nov; Los Angeles, CA.
7. Pahlavani M, Razafimanjato F, Kalupahana NS, Scoggin S, **Ramalingam L**, Moustaid-Moussa N. Eicosapentaenoic acid increases thermogenic markers in brown adipose tissue from high fat fed mice and in cultured brown adipocytes. Proceedings of the 33th Ann. Scientific Meeting of The Obesity Society; 2015 Nov; Los Angeles, CA.
8. Wijayatunga N, Pahlavani M, Kottapalli R, Dawson J, **Ramalingam L**, 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. Annual Scientific Meeting of Experimental Biology; 2016 Apr; San Diego, CA.
9. Pahlavani M, Wijayatunga N, Kottapalli R, **Ramalingam L**, Gunaratne PH, Coarfa C, Rajapakshe K, Kalupahana NS, Moustaid-Moussa N. transcriptomic and microrna analyses identify gene networks regulated by eicosapentaenoic acid in brown adipose tissue from diet-induced obese mice. Annual Scientific Meeting of Experimental Biology; 2016 Apr; San Diego, CA.

10. Albracht-Schulte K, Kalupahana N, **Ramalingam L**, Rosairo S, Wijetunge S, Kotakadeniya HMSRB, Ratnayake RMCJ, Dawson J, Moustaid-Moussa N. metabolic changes underlying interactions between obesity and non-alcoholic fatty liver disease in south asian adults. Annual Scientific Meeting of Experimental Biology; 2016 Apr; San Diego, CA.
11. Allen L, **Ramalingam L**, Shen C, Tomison MD, Kaur G, Dufour J, Chung E, Moustaid-Moussa N. Delta-tocotrienol dose-dependently improves adiposity, inflammation, and increased markers of lipid oxidation in high fat fed mice. Annual Scientific Meeting of Experimental Biology; 2016 Apr; San Diego, CA.
12. Alhaj S, Aljawadi A, **Ramalingam L**, Moustaid-Moussa N. Obesity-Breast Cancer Interactions: Effects of adipocytes on breast cancer cells and preventive effects of omega 3 fatty acids. Annual Scientific Meeting of Experimental Biology; 2016 Apr; San Diego, CA.
13. George B, **Ramalingam L**, Menikdiwella K, Moustaid-Moussa N, Soto P. The long-term effects of early-life exposure to olanzapine. Annual Scientific Meeting of Experimental Biology; 2016 Apr; San Diego, CA.
14. Stewart B, **Ramalingam L**, Menikdiwella K, Moustaid-Moussa N, Soto P. The long-term weight and metabolic effects of olanzapine in mice and the impact of fish oil supplementation. Annual Scientific Meeting of Experimental Biology; 2016 Apr; San Diego, CA.
15. Yen E, Wijayatunga N, Pahlavani M, **Ramalingam L**, Kottapall Ri, Kalupahana NS, Gunaratne P, Rajapakshe K, Coarfa C, Dharmawardhane S, Moustaid-Moussa N. MicroRNAs as a novel mechanism by which eicosapentaenoic acid mediates inflammation in diet-induced obesity. Annual Scientific Meeting of Experimental Biology; 2016 Apr; San Diego, CA.
16. Shen L, Kaur G, **Ramalingam L**, Tomison M, Chung E, Moustaid-Moussa N, Chun G, Reinoso C, Mo H, Dufour JF. Dietary tocotrienols improve glucose homeostasis and bone turnover biomarkers in high-fat-diet-induced obese male mice. Annual Scientific Meeting of Experimental Biology; 2016 Apr; San Diego, CA.
17. Kalupahana N, Albracht-Schulte K, **Ramalingam L**, Rosairo S, Wijetunge S, Kotakadeniya HMSRB, Ratnayake RMCJ, Dawson J, Moustaid-Moussa N. Serum resistin is associated with adipocyte hypertrophy, inflammation and metabolic Complications of Obesity in South Asian Women. 13th International Congress on Obesity, 2016 May; Vancouver, Canada.
18. **Ramalingam L**, Scoggin S, Kalupahana NS, Moustaïd-Moussa N Adipose Renin Angiotensinogen System mediates Fatty Acid Induced Endoplasmic Reticulum stress. 16th International Congress of Immunology, 2016 August; Melbourne, Australia.
19. Moustaid-Moussa, N., **Ramalingam, L**., Yen, E., Wijayatunga, N., Pahlavani, M., Kottapali, R., Gunaratne, P., Rajapakshe, K., Coarfa, C., Kalupahana, N., International Congress of Immunology, "MicroRNAs mediate anti-inflammatory effects of eicosapentaenoic acid in mouse adipose tissue. 16th International Congress of Immunology, 2016 August; Melbourne, Australia.
20. Peddibhotla, S. P. S. S. A. S. S., Scoggin, S., **Ramalingam, L**., Hedge, V., Dhurandhar, N., "Insulin sparing action of an adenoviral protein E4orf1." Obesity Society, November 2016. Boston, MA.
21. Short M., Chung E., McComb J., Kloiber S., Larumbe-Zabala E., **Ramalingam L**., and Fernandez del Valle M. Baseline irisin concentrations not altered by high-intensity resistance training. APS intersociety meeting, November 2016; San Diego, CA.
22. Chen, Y., **Ramalingam, L**., wu, J., Moustaid-Moussa, N., Li, W., The Adipose Tissue Niche: Role in Health and Diseases, "An integrated biomimetic adipose tissue microchip," NIH. November 2016.
23. Chen, Y., **Ramalingam, L**., Wu, J., Moustaid-Moussa, N., Li, W. An integrated biomimetic adipose tissue microchip. Annual Scientific Meeting of Experimental Biology; April 2017; Chicago, IL,
24. Shen, C., Kaur, G., **Ramalingam, L**., Tomison, M. D., Chung, E., Moustaid-Moussa, N., Dufour, J., Mo, H., Watkins, B. A. Dietary delta-tocotrienol modifies serum metabolite profiles in diet-induced obese mice. Annual Scientific Meeting of Experimental Biology; April 2017; Chicago, IL.
25. Shen, C.-L., Tomison, M. D., Kaur, G., **Ramalingam, L**., Dufour, J., Moustaid-Moussa, N., Chung, E., Mo, H., Cao, J. Effect of delta-tocotrienols and green tea polyphenols on high-fat-diet-induced bone

deterioration in male C57BL/6J mice. Annual Scientific Meeting of Experimental Biology; April 2017; Chicago, IL.

26. **Ramalingam, L**., Menikdiwela, K., Allen, L., Scoggin, S., Koboziev, I., Moustaid-Moussa, N. Effects of Fish oil supplementation during pregnancy and post-weaning on offspring metabolic health. Annual Scientific Meeting of Experimental Biology; April 2017; Chicago, IL.
27. Gonzalez, S. M., Albracht, K., **Ramalingam, L**., Kalupahana, N. S., Moustaid-Moussa, N. Mechanisms mediating effects of eicosapentaenoic acid in hepatic steatosis in high fat fed mice and in hepg2 hepatoma Cells. Annual Scientific Meeting of Experimental Biology; April 2017; Chicago, IL.
28. Dufour, J., Greer, R., Kaur, G., Wright, K., **Ramalingam, L.**, Chung, E., Moustaid-Moussa, N., Shen, C.-L. Effect of Early type 2 diabetes on male fertility effect of early type 2 diabetes on male fertility. American Society of Andrology. April 2017; Tampa, Florida.
29. Menikdiwela, K. R., Moustaid-Moussa, N., **Ramalingam, L**., Scoggin, S., Kalupahana, N. S. (2017). Micro RNAs mediating effects of adipose angiotensinogen in adipocyte inflammation and ER stress. Annual Scientific Meeting of Experimental Biology; April 2017; Chicago, IL.
30. Dufour, J., Greer, R., Kaur, G., Wright, K., **Ramalingam, L.,** Chung, E., Moustaid-Moussa, N., Shen, C.-L. Effect of Early type 2 diabetes on male fertility effect of early type 2 diabetes on male fertility. North American Testis Workshop, April 2017; Tampa, Florida.
31. Shen, C.-L., Tomison, M. D., Kaur, G., **Ramalingam, L**., Chung, E., Moustaid-Moussa, N., Mo, H., Dufour, J. Dietary geranylgeraniol improved glucose homeostasis, bone turnover biomarkers, and bone quality in an obesity-associated type 2 diabetes mellitus C57BL/6J mouse model. 10th International Symposium on Nutritional Aspects of Osteoporosis. June 2017; Rome, Italy,
32. Pahlavani, M, Wijayatunga, N, Ramalho, T., **Ramalingam, L**., Kottapali, R., Gunaratne, P., Coarfa, C., Rajapakshe, K., Kalupahana, N., Moustaid-Moussa, N., Immunometabolism and chronic disease conference, "Profiling of genes and micro RNAs regulated by eicosapentaenoic acid in brown and white adipose tissue from high fat fed mice. International Conference on Immunometabolism. August 2017; Sydney, Australia.
33. Moustaid-Moussa, N, Menikdiwela, K., **Ramalingam, L**., Scoggin, S, Kalupahana, N., Immunometabolism and chronic disease conference, "Mechanisms linking adipocyte renin angiotensin system, inflammation and endoplasmic reticulum stress. International Conference on Immunometabolism. August 2017; Sydney, Australia.
34. Liyanage, S., Bouyaniff, A., **Ramalingam, L**., Moustaid-Moussa, N., Abidi, N., , Obesity-associated biochemical changes in adipose tissues and liver investigated by FTIR microspectroscopy imaging, American Chemical Society. September 2017; Lubbock, TX.
35. **Ramalingam, L**., Menikdiwela, K., Allen, L., Scoggin, S., Moustaid-Moussa, N., IUSN 2017, "Effects of fish oil supplementation during pregnancy and post-weaning on offspring metabolic health. International Congress of Nutrition, October 2017; Argentina.
36. Chung, E., Joiner, H., Campise, S., Gonzalez, K., Kaur, G., Dufour, J., **Ramalingam, L**., Wright, K., Tomison, M. D., Moustaid-Moussa, N., Shen, C.-L. Effect of delta-tocotrienols and green tea polyphenols on glucose homeostasis and skeletal muscle in obese male mice with insulin resistance," International Association of Sarcopenia, December 2017; Rome.
37. Albracht-Schulte K, Rosairo S, **Ramalingam L**, Wijetunge S, Ratnayake RMCJ, Kotakadeniya HMSRB, Dawson JA, Kalupahana NS, Moustaid-Moussa N. Central Adiposity is a Strong Predictor of Non-alcoholic Fatty Liver Disease (NAFLD) in South Asian Women. Poster presentation at the Experimental Biology meeting, San Diego, CA, April 2018 and at the Obesity Research Cluster annual meeting, Lubbock, TX, May 2018.
38. Rasha FA, **Ramalingam, L**., Menikdiwela, K, Moustaid-Moussa, N. Role of the renin-angiotensin system in breast cancer cell inflammation. American Society of Nutrition (ASN), June 2018; Boston.
39. Menikdiwela, K, Clevenger S, Eboh T, **Ramalingam, L.,** Allen, L., Scoggin, S. Moustaid-Moussa, N. Maternal and offspring supplementation with fish oil improves metabolic health in diet-induced obesity. American Society of Nutrition (ASN), June 2018; Boston.

40. Jayarathne S, Stull A, **Ramalingam, L.,** Pahlavani M, Moustaid-Moussa, N. Anti-inflammatory Effects of tart cherry anthocyanins in adipose tissue. American Society of Nutrition (ASN), June 2018; Boston.
41. **Albracht-Schulte K**, Gonzalez S, Jack son A, **Ramalingam, L.,** Kalupahana NS and Moustaid-Moussa, N. Mechanisms mediating reversal of liver steatosis by eicosapentaenoic acid: studies in high fat diet-induced obese mice and in hepg2.hepatoma cells. American Society of Nutrition (ASN), June 2018; Boston.
42. **Ramalingam, L**., Menikdiwela, K., Allen, L., Scoggin, S., Moustaid-Moussa, Fish Oil Supplementation During Early Life Improves Metabolic Health in Diet Induced Obesity. American Heart Association epi lifestyle, March 2019; Houston.
43. Menikdiwela, K., **Ramalingam, L**., Scoggin, S., Bensmail, H., Abbas, M., Kalupahana, N., Moustaid-Moussa, N., Identification of miRNAs Mediating Effects of the Renin Angiotensin System in Adipose Tissue. American Society of Nutrition (ASN), June 2019; Baltimore
44. Albracht-Schulte K, Pahlavani M, **Ramalingam L**, Moustaid-Moussa N. Eicosapentaenoic Acid Reduces Hepatic Steatosis Independently of UCP1. Poster presentation at the Interdisciplinary Nutrition Sciences Symposium, University of North Carolina, Chapel Hill, NC, July 2019

TEACHING EXPERIENCE:

Obesity and Steatohepatitis (NS 7000) 2015
Department of Nutritional Sciences, TTU

Renin Angiotensin and Endoplasmic Reticulum Stress (NS 7000) 2016
Department of Nutritional Sciences, TTU

Nutrition and Obesity Seminar (NS 6118) 2018
Department of Nutritional Sciences, TTU

Nutrition and Chronic Disease (NS 6118) 2018
Department of Nutritional Sciences, TTU

Nutrition and Obesity Seminar (NS 6118) 2019
Department of Nutritional Sciences, TTU

ACADEMIC SERVICE:

GRADUATE STUDENTS TRAINING:

Current Trainees

08/16-present *Ph.D. Co-Mentor*, Kalhara Menikdiwela
Department of Nutritional Sciences, TTU

08/14-12/18 *Ph.D. Co-Mentor and Thesis Committee Co-Chair*, Kembra-Albracht,
Department of Nutritional Sciences, TTU

01/17-08/18 *M.S Co-Mentor,* London Allen
Department of Nutritional Sciences, TTU

08/15-08/17 *M.S. Co-Mentor and Thesis Committee Co-Chair*, Erin Yen
Department of Nutritional Sciences, TTU

Other Graduate Mentoring

01/13-03/13 Jaimie Gendron, IBMG program, Indiana University

07/13-08/13 Arianne Aslamy, MSTP (MD/PhD) program, Indiana University
01/14-03/14 Kimberly Fong, IBMG program, Indiana University
06/15-08/15 Yao Liu, MD, Texas Tech University Health Sciences Center,

Other Student Thesis Committees

08/16-Present Kalhara Menikdiwela, Nutritional Sciences, TTU (Ph.D.)
08/16-Present Fahmida Rasha, Nutritional Sciences, TTU (Ph.D.)
08/15-05/19 Amal Bouyanfif, Plant and Soil Sciences, TTU (Ph.D.)
08/16-05/18 Siddik Bakkar Siddik, Nutritional Sciences, TTU (M.S.)
08/16-05/18 Hazera Sufian, Nutritional Sciences, TTU (M.S.)
08/16-12/18 Al Rashid, Mechanical Engineering, TTU (M.S.)
08/16-05/18 Prakash Parajuli, Plant and Soil Sciences, TTU (M.S.)
08/15-08/17 Arwa Aljawadi, Nutritional Sciences, TTU (Ph.D.)
08/15-08/17 Nadeeja Wijayatunga, Nutritional Sciences, TTU (Ph.D.)
08/15-08/17 Rick Garrison, Nutritional Sciences, TTU (Ph.D.)
05/15-07/15 Short Matt, Department of Kinesiology, TTU (M.S.)

UNDERGRADUATE STUDENTS TRAINING:

Co-authorship in a research paper that is published, submitted or pending

- Josephine Kim, IBMG program, Indiana University 01/13-01/14
- Katie Beverly, IBMG program, Indiana University 01/14-03/14
- Kenneth Pham, Clark Scholar, TTU 06/14-08/14.
- Yao Liu, Texas Tech University Health Sciences Center 06/15-08/15
- Chinasa Anokwuru Minority visiting student from University of Texas Austin 06-15-07-15
- *London Allen, Nutritional Sciences, Honors Biochemistry Undergrad Research and Terry Scholar, Texas Tech University. 08/15-12/16
    - BS 2016 & MS Nutrition, 2018. Currently Research Associate, School of Medicine
- Tram Dinh, Nutritional Sciences, Undergrad Research Scholar, Texas Tech University. 08/15-03/16
- *Boontharick Sopontammarak, Nutritional Sciences, Texas Tech University 08/15-08/18
    - Undergrad Research Scholar & Honors Thesis. BS awarded in 2018 with Highest Honors. College of Human Sciences Undergraduate Research Award. National Undergraduate Conference travel award 2018, completed an NS Honors Thesis, spring 2018. Presented her research at (1) TTU Undergraduate Conference and (2) National Conference for Undergraduate Research (NCUR)
- Toni Oladute, Nutritional Sciences, Texas Tech University. 01/18-06/18
- *Eboh Tochi, Nutritional Sciences, Texas Tech University. 01/17-05/18
    - BS, Nutrition, 2018. Awarded second plate oral presentation at the TTU. Undergraduate Research Conference in 2018. Admitted to Medical School, 2019.
- *Stephani Clevenger, Nutritional Sciences, Terry Scholar, Texas Tech University. 01/17-05/19
    - BS Nutrition and Dietetics, 2019. Outstanding Senior Undergraduate Student in Nutrition and Dietetics in the College of Human Sciences. College of Human Sciences Undergraduate Research Award. Presented her research at the TTU Undergraduate Conference (2018). TTU TrUE travel award to present at the national NCUR conference. Admitted into the TTU Dietetic Internship and Graduate Program, Fall 2019. Scholarship from Texas academy of Nutrition and Dietetics
- *Lexie Harlan, Honors Biology Undergrad Research Scholar; PI^2 Program Honors Biology, Texas Tech University. 08/17-present
    - Participated in Harvard Biomedical Science Careers Program in 2018 (travel award from TTU). Presented her research at (1) TTU Undergraduate Conference and (2) National Conference for Undergraduate Research (NCUR). Awarded travel grant from TTU TrUE to present at the NCUR

national conference in 2018. Won an Undergraduate Poster award at the 2019 TTU TrUE Conference. Honors Thesis in Progress (defense May 15, 2019).

- *Brennan Mabry, Nutritional Sciences, Texas Tech University. 01/18-present
  - Honors Undergraduate Research Scholar. Presented her research at (1) TTU Undergraduate Conference and (2) National Conference for Undergraduate Research (NCUR). Awarded travel grants from TTU TrUE to present at the NCUR national conference in 2018. College of Human Sciences Undergraduate Research Award
- Angela Bacani, Nutritional Sciences, Undergrad Research Scholar Texas Tech University. 05/19-present

PROFESSIONAL SERVICE

EDITORIAL BOARD:

06/19- Journal of Nutritional Biochemistry
08/16- International Journal of Diabetes
08/16- Obesity and Nutritional Disorders

Invited Reviewer for the following Journals (2014-Present)

Atherosclerosis
Frontiers in Aging Neuroscience
Diabetologia
International Journal of Obesity
Mediators of Inflammation
Molecules Nutrients
Obesity
Obesity and Nutritional Disorders
PLOS One
Journal of Nutritional Biochemistry
Nutrients

Others:

American Society of Nutrition Abstract Reviewer Feb 2017
National Institute of health, Reviewed Trainee grants in NIH study section ZATO. October 2017.
USDA, Reviewed phase II projects (October 2017 - Present).