



CHRISTIAN LYNCH

RESEARCH OBJECTIVES:

- To gain a deeper understanding of the pathogenesis, metabolic condition, and systemic inflammation associated with NAFLD
- To apply molecular research findings in clinical practice

CAREER OBJECTIVES:

- To become a Community Advocate
- To serve disadvantaged populations through scientific discovery
- To establish a career working with populations affected by nutritional disorders and other challenges related to lifestyle diseases
 - Obesity
 - Diabetes
 - CVD
 - Cancer

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Bryan, TX 77801
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EDUCATION

Texas A&M University – College Station, TX **Spring 2022**
Master of Science (non-thesis): Biomedical Science | GPA: 4.0 Spring 2020 – Spring 2022

Texas A&M University – College Station, TX **Fall 2019**
Master of Science (thesis): Nutrition | GPA: 3.85 *Fall 2017 – Fall 2019*

Texas A&M University – College Station, TX **Spring 2017**
Bachelor of Science: Nutrition | GPA: 3.12

RESEARCH & TEACHING EXPERIENCE

Blinn College – Biology Instructor **Fall 2021**

Texas A&M University – Graduate Research, Xie Laboratory **Fall 2017-Fall 2019**

Department of Nutrition & Food Science

NUTR 481: Senior Seminar Instructor **Spring 2019**

NUTR 681: Graduate Research Assistant **Fall 2017 - Fall 2019**

Texas A&M Nutrition Obesity Research Symposium: **April 2018**

“The Influence of Osr1 in Mice Treated with High Fat Diet”

Poster Presenter & Abstract Co-author

Texas A&M Women’s Research on Women Symposium: **March 2019**

“Maternal Diet Before Pregnancy Plays a Transgenerational Effect on Offspring Lipid Homeostasis in Liver”

Poster Presenter & Manuscript Co-author

International Conference on Obesity and Chronic Disease: **July 2019**

“Maternal Diet Before Pregnancy Plays a Transgenerational Effect on Offspring Lipid Homeostasis in Liver”

Presenter & Manuscript Co-author

Texas A&M University - Undergraduate Research **Spring 2016 - Summer 2017**

Undergraduate Research Coordinator (Fall 2016 - Summer 2017)

- *Undergraduate Student Researcher (Spring 2016-Summer 2016)*

Texas A&M University - Transformational Teaching & Learning Conference: **April 2018**

“Teams on Autopilot: The Magic of Problem-Based Learning.” Presenter.

PUBLICATIONS

Lynch, E.C., Liu, Z., Liu, L., Zhang, K., Xie, L., “Disrupting Osr1 expression promoted hepatic steatosis and inflammation induced by high-fat diet in mouse model.” *Experimental Biology and Medicine*. 2021 Under review

Zhou, Y., Liu, Z., Lynch, E.C., et al., “Osr1 regulates hepatic inflammation and cell survival in the progression of non-alcoholic fatty liver disease.” *Lab Invest*. 101, 477–489 (2021).

Xueping, Y., Fan, W., Lynch, E.C., et al., “Celastrol alleviates metabolic disturbance in high-fat diet-induced obese mice through increasing energy expenditure by ameliorating metabolic inflammation.” *Phytother Res*. 2021 Jan 10;35(1):297-310.

Liu, Z., Ding, Z., Lynch, E.C., et al., “Pregestational diet transition to normal-fat diet avoids the deterioration of pancreatic β -cell function in male offspring induced by maternal high-fat diet.” *J Nutr Biochem*. 2020 Dec;86:108495.

CONTINUED

Zhou, Y., Peng, H., Lynch, E.C., et al., "Maternal diet intervention before pregnancy primes offspring lipid metabolism in liver." *Lab Invest.* 2020 Apr;100(4):553-569.

Peng, H., Li, J., Lynch, E.C., et al., "Maternal High-Fat Diet Disrupted the One-Carbon Metabolic Process and Epigenetic Regulation in Offspring Male Mice for Non-Alcoholic Fatty Liver Disease." *Curr Dev Nutr.* 2019 Jun; 3(Suppl 1): nzz048.P11-142-19.

Xu, H., Fu, Q., Lynch, E.C., et al., "A long-term maternal diet intervention is necessary to avoid the obesogenic effect of maternal high-fat diet in the offspring." *J Nutr Biochem.* 2018 Dec;62:210-220.

HONORS

Texas A&M University

- Texas A&M Nutrition & Food Science Graduate Travel Scholarship Spring 2019
- Texas A&M Aggie Spirit Award Spring 2017

Texas Department of Criminal Justice – Institutional Division

- Religious Volunteer Appreciation Award Fall 2018

Texas Food Processors Association

- Texas Food Processors Association Scholarship Spring 2016
- Texas Food Processors Association Scholarship Spring 2017

CLINICAL EXPERIENCE

Southeast Surgical Associates - San Antonio, TX Fall 2015 - Current

Adult Volunteer

- Assisted in adult general surgical procedure (Initial consultation, pre- and postoperative care, office follow-up, and ER call).
- Completed over 500 hours of clinical shadowing.

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Texas A&M Nutrition Graduate Student Association Representative Fall 2017 - Fall 2019

Texas A&M Nutrition & Dietetics Association Member Fall 2017 - Fall 2019

North Oakwood Neighborhood Association Committee Member Spring 2017 - Current

Bridges to Life Restorative Justice Program Facilitator Fall 2015 - Current

- Attend weekly scheduled meetings during a 14-week program, two programs per year.
- Facilitate small group discussion and monitor program requirements.
- Completed 504 hours of service.

Traditions Hospice Companion Volunteer Fall 2015 - Current

- Attend weekly scheduled visitations for patients in hospice care.
- Provide general assistance to family and primary caregivers of patients.
- Completed 520 hours of service.

Church of Christ on Cavitt Ave. Member Summer 2014 - Current

SKILLS, CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

Texas A&M University "Step In, Stand Up Against Sexual Violence" Course Summer 2018

Texas A&M University Greendot Bystander Intervention Fall 2017

- Greendot trainees learn strategies to prevent power-based personal violence through effective bystander intervention