

CURRICULUM VITAE

Craig Younce, PhD

Education

**8/2003 - 12/2009 Ph.D. in Biomedical Sciences
University of Central Florida, Orlando, FL**

**8/1999- 8/2003 B.S. in Biology
Palm Beach Atlantic University, West Palm Beach, FL**

Administrative Experience

**8/2022- present Department Head of Biology
Hardin-Simmons University, Abilene, TX**

**8/2016- 08/2020 Department Head of Biological Sciences
Howard Payne University, Brownwood, TX**

Academic Appointments

**8/2020- present Associate Professor of Biology
Hardin-Simmons University, Abilene, TX**

**8/2016- 8/2020 Associate Professor of Biology
Howard Payne University, Brownwood, TX**

**8/2013- 8/2016 Assistant Professor of Biology
Howard Payne University, Brownwood, TX**

**8/2011- 8/2013 Adjunct Instructor
Valencia College, Orlando, FL**

**6/2010- 8/2013 Postdoctoral Scholar
Sanford-Burnham Medical Research Institute, Lake Nona, FL**

**12/2009 - 6/2010 Postdoctoral Scholar
University of Central Florida, Orlando, FL**

Research Experience

- 6/2010- 8/2013 Sanford-Burnham Medical Research Institute, Lake Nona**
Cardiovascular benefits of Glp-1 based therapies on the diabetic heart.
- 8/2003- 6/2010 University of Central Florida**
The role of the inflammatory molecule MCP-1 in diabetic cardiomyopathy and adipogenesis.

Honors

- 4/2022 Holland Award of Excellence, Hardin-Simmons University**

Academic Service

- 08/2023-present Institutional Review Board, Hardin-Simmons University**
- 08/2021-present International Student Committee, Hardin-Simmons University**
- 08/2021- present Teaching Effectiveness Committee, Hardin-Simmons University**
- 3/2018- 3/2019 Local Host, Texas Academy of Science**
- 8/2017- 5/2018 Faculty Concerns Committee – Faculty Assembly, Howard Payne University**
- 3/2016- 3/2017 Chair, Cell and Molecular Biology Section, Texas Academy of Science**
- 9/2015- 6/2017 University Curriculum Committee, Howard Payne University**
- 3/2015- 3/2016 Vice Chair, Cell and Molecular Biology Section, Texas Academy of Science**
- 8/2014- 5/2015 Faculty Concerns Committee – Faculty Assembly, Howard Payne University**

Other Service

- 2019-2020 New Day Orphanage, Zambia – Student involved trips for STEM development**

Memberships

2014- Present Texas Academy of Sciences
2011- Present American Heart Association

Peer-Reviewed Publications

Younce, CW; Niu, J; Ayala, J; Burmeister, M; Smith, L; Kolattukudy, PE; Ayala, JE. 2014. Exendin-4 improves cardiac function in mice overexpressing monocyte chemoattractant protein-1 in cardiomyocytes. *Journal of Molecular and Cellular Cardiology*. 76:172-176.

Younce, CW; Burmeister MA, and Ayala JE. 2013. Exendin-4 attenuates high glucose-induced cardiomyocyte apoptosis via inhibition of endoplasmic reticulum stress and activation of SERCA2a. *American Journal Physiology Cell Physiology*. 304(6):C508-18.

Craig W. Younce and P.E. Kolattukudy. 2012. MCP-1 induced protein promotes adipogenesis via oxidative stress, endoplasmic reticulum stress and autophagy. *Cell Physiol Biochem*. 30(2):307-320.

Younce CW, Wang K, and Kolattukudy PE. 2010. Hyperglycemia-induced cardiomyocyte death is mediated via MCP-1 production and induction of a novel zinc-finger protein MCPIP. *Cardiovasc Res*. 8(4):665-674.

Craig W. Younce and P.E. Kolattukudy. 2010. MCP-1 causes cardiomyoblast death via autophagy resulting from ER stress caused by oxidative stress generated by inducing a novel Zn-finger protein, MCPIP. *Biochem J*. 426(1):43-53.

Younce C; Azfer A; and Kolattukudy PE. 2009. MCP-1 (monocyte chemotactic protein1) induced protein, a recently identified zinc finger protein, induces adipogenesis in 3T3-L1 pre-adipocytes without peroxisome proliferator-activated receptor gamma. *J Biol Chem*. 284 (40):27620-8.

Zhou L, Azfer A, Niu J, Graham S, Choudry M, Adamski FM, **Younce C**, Binkley PF, Kolattukudy PE. 2006. Monocyte chemoattractant protein-1 induces a novel transcription factor that causes cardiac myocyte apoptosis and ventricular dysfunction. *Circulation Research* 98(9):1177-85.

Abstracts and Presentations:

Younce, CW and Ayala, JE. 2013. Exendin-4 (Ex4) improves cardiac function in a mouse model of inflammatory cardiomyopathy. *American Diabetes Association's 73rd Scientific Sessions*. "Poster Presentation"

Younce, CW and Ayala, JE. 2012 Glucagon-like peptide-1 receptor activation protects cardiomyocytes from high glucose-induced cell death in association with reduced

endoplasmic reticulum stress and markers of enhanced SERCA2a activity. *48th Annual Meeting of the European Association for the Study of Diabetes*. “Oral Presentation by Dr. Julio Ayala”

Younce, CW; Burmeister, M; and Ayala, JE. 2012. Exendin-4 (Ex4) attenuates cardiomyocyte apoptosis by inhibiting oxidative stress-induced endoplasmic reticulum (ER) stress. *American Diabetes Association's 72nd Scientific Sessions*. “Oral Presentation”

Younce, CW and Ayala, JE. 2011. Exendin-4 (Ex4) Attenuates Hyperglycemia-Induced Cardiomyocyte Apoptosis in Association with Alterations in Endoplasmic Reticulum (ER) Stress and the Unfolded Protein Response (UPR). *American Diabetes Association's 71st Scientific Sessions*. “Poster Presentation”

Current Student Projects:

Rachel Tonne, Tristin Laughlin, **Craig Younce**, *Godwin Ananaba, and Godwin Ifere. *Developing a Chromatographic System for Detecting RNA-Cholesterol Adducts. Abstract submitted for Texas Academy of Science: 126th Annual Meeting*.

Hannah Justice and **Craig Younce**. 2019. Potency and efficacy of peppermint and Thieves® essential oil on *Escherichia coli* and *Staphylococcus aureus* compared to commercial cleaners. *Texas Academy of Science: 122nd Annual Meeting*. “Poster Presentation”

Honors Project by Calynne Cordes. 2023. *The Effects of Thrombin on THP-1 Cells for Hemorrhagic Stroke Models*