

CURRICULUM VITAE

Han-Hung Floyd Huang, PT, Ph.D.

Date of Revision: Aug, 2019

ASU Station #10923

San Angelo, TX 76909-0923

Phone: (325) 942-2627

Department of Physical Therapy, Angelo State University

Education:

University of Kansas Medical Center

Kansas City, KS

From 2006 to 2011

Rehabilitation Science

PhD, 2011

Chung Shan Medical University

Taichung, Taiwan

From 2000 to 2004

Physical Therapy

BS, 2004

Licensure Information/Registration Number:

Physical Therapy, New York, USA, PT 038704, active

Physical Therapy, Taiwan, PT 003513, active

Certified Kinesio Taping® Practitioner

Employment and Positions Held:

Associate Professor

Graduate Faculty

Tenured

Angelo State University

San Angelo, TX

From 2018 to present

Assistant Professor

Graduate Faculty

Tenure track

Angelo State University

San Angelo, TX

From 2012 to 2018

Graduate Teaching Assistant

Non-tenure

University of Kansas Medical Center

Kansas City, KS

From 2006 to 2011

Graduate Research Assistant
Non-tenure
University of Kansas Medical Center
Kansas City, KS
From 2006 to 2011

Staff Physical Therapist
Taipei County Assistive Technology Resources Center
Taiwan
2006

Staff Physical Therapist & Case Manager of Pediatric Early Intervention
Taipei Hospital, Department of Health
Taiwan
From 2004 to 2005

Peer Reviewed Publications:

1. Moore, K., Autumn, H., VanHoose, L.D., **Huang, H-H.** (2019) Current Wound Care Education in Entry-Level Doctor of Physical Therapy Curriculums, *Advances in Skin & Wound Care* (in press).
2. Curtis, D., **Huang, H-H.**, Nicks, K., (2018) Patient Deception in Health Care: Physical Therapy Education, Beliefs, and Attitudes, *International Journal of Health Sciences Education*, 5(1).
3. Ahmed, S.S., Giardina, M., Nicks, K., **Huang, H-H.**, (2018) Physical therapy examination and management of a 48-year-old male with vertigo and cervicalgia secondary to Chiari malformation. *Physiotherapy Theory and Practice*, [Epub ahead of print]
4. **Huang, H-H.**, Harrington, S., Stehno-Bittel, L., (2018) The Flaws and Future of Islet Volume Measurements. *Cell Transplantation*, 27(7): 1017-1026.
5. Buchanan, A., Wilkerson, K., **Huang, H-H.**, (2018) Physical therapy for transverse myelitis: a case report. *Journal of Novel Physiotherapy and Rehabilitation*, 2: 015-021
6. **Huang, H-H.**, Cook, L., Harrison, j., O'Keefe, N., Schultz, K., Curtis, D., (2017) Exercise by playing active video gaming in overweight and obese children. *Journal of Physical Therapy and Sports Medicine*, 1(1): 25-31.
7. **Huang, H-H.**, Weise, S., Ko, M-S., Hansen, T., Johnson, A., McCluskey, C., (2017) Effects of Motor-level Electrical Stimulations on Postprandial Glucose Levels in Non-Diabetic Young Individuals. *Journal of Novel Physiotherapy and Physical Rehabilitation*, 4(1): 027-032
8. **Huang, H-H.**, Stehno-Bittel, L., (2015) Differences in insulin biosynthesis pathway between small and large islets do not correspond to insulin secretion. *Islet*, Sep 3;7(5):e1129097.
9. Ramachandran, K., **Huang, H-H.**, Stehno-Bittel, L., (2015) A simple method to replace islet equivalents for volume quantification of human islets. *Cell Transplantation*, 24(7):1183-94.
10. **Huang, H-H.**, Ramachandran, K., Stehno-Bittel, L., (2013) A replacement for islet equivalents with improved reliability and validity. *Acta Diabeto*, 50(5):687-96.
11. Rawal, S., **Huang, H-H.**, Novikova, L., Hamedi, T., Smirnova, I.V., Stehno-Bittel, L., (2013) Effect of exercise on pancreatic islets in zucker diabetic fatty rats. *J Diabetes Metab*, S10(007).
12. Ramachandran, K., Williams, S.J., **Huang, H-H.**, Novikova, L., Stehno-Bittel, L., (2013) Engineering islets for improved performance by optimized reaggregation in a micro-mold. *Tissue Engineering*, 19(5-6):604-12.
13. Farhat, B., Almelkar, A., Ramachandran, K., Williams, S.J., **Huang, H-H.**, Zamierowski, D., Novikova, L., Stehno-Bittel, L., (2013) Small human islets comprised of more β -cells with higher insulin content than large islets. *Islets*, 5(2):87-94.

14. Wang, W., Guo, Y., Xu, M., **Huang, H-H.**, Novikova, L., Larade, K., Jiang Z-G., Thayer T.C., Forntera J.R., Aires D., Ding H., Turk, J., Mathews C.E., Bunn H.F., Stehno-Bittel, L., Zhu, H. (2011) Development of diabetes in lean Ncb5or-null mice is associated with manifestations of endoplasmic reticulum and oxidative stress in beta cells. *Biochimica et Biophysica Acta-Molecular Basis of Disease*, 1812(11):1532-41.
15. **Huang, H-H.**, Novikova, L., Williams, S.J., Smirnova, I.V., Stehno-Bittel, L., (2011) Low insulin content of large islet population is present in situ and in isolated islets. *Islets*, 3(1):6-13. (Image is used on the cover of the journal)
16. **Huang, H-H.**, Farmer, K., Windscheffel, J., Mason, K., Power, M., Wright, D., Stehno-Bittel, L., (2011) Exercise increases insulin content and basal secretion in pancreatic islets in type 1 diabetic mice. *Experimental Diabetes Research*, 2011:481427 (Figure is used in the review article by Dr. Narendran at the University of Birmingham in UK as a strong evidence of exercise effect on beta-cells)
17. Williams, S.J., **Huang, H-H.**, Kover, K., Moore, W., Berkland, C., Singh, M., Smirnova, I.V., MacGregor, R., Stehno-Bittel, L., (2010) Reduction of diffusion barriers in isolated rat islets improves survival, but not insulin secretion or transplantation outcome. *Organogenesis*, 6(2):115-24.

Peer Reviewed Scientific and Professional Presentations:

1. Moore, K., Autumn, H., VanHoose, L.D., **Huang, H-H.**: A Survey of Current Wound Care Education in Entry-Level Doctor of Physical Therapy Curriculums; platform presentation at the American Physical Therapy Association Combined Sections Meeting, Washington DC, January 23-26, 2019
2. Brewer, S., Krietler, C., **Huang, H-H.**, Goodman, J., Voth, L., Price, M., Riley, K., Miranda, J., Fleming, S.: The influence of pain and anxiety on eye-witness testimony; poster presentation at the Southwestern Psychological Association Convention, Houston, TX, April 12-15, 2018.
3. **Huang, H-H.**, Gathright, B., Holik, R., Iverson, H., Saville, E., Curtis, D.: Active video gaming for people with type 2 diabetes and prediabetes- a pilot study; poster presentation at the American Physical Therapy Association Combined Sections Meeting, New Orleans, LA, February 21-24, 2018.
4. **Huang, H-H.**, Cook, L., Harrison, j., O'Keefe, N., Schultz, K., Curtis, D.: The effects of active video gaming on fitness and motivation for physical activity in overweight and obese children; poster presentation at the 2017 Texas Physical Therapy Association Annual Conference, Corpus Christi, TX, October 26-29, 2017.
5. Nicks, K., Barnett, S., Cummings, S., **Huang, H-H.**, Huckaby, T., Moore, K.: The effects of kinesio tape® application on median nerve tension and grip strength in healthy subjects 30 minutes and 24 hours after application; poster presentation at the 2017 Texas Physical Therapy Association Annual Conference, Corpus Christi, TX, October 26-29, 2017.
6. Russell, W., Van Ittersum, K., Brewer, S., **Huang, H-H.**, Stenmark, C.: Leadership skills and stress; poster presentation at the Industrial/Organizational & Organizational Behavior (IOOB) Conference, Rice University, Houston, TX. February 9-11, 2017.
7. McMillan, L., Coleman, K., Deegan, S., Rew, A., Nicks, K., Hung, Y-J., **Huang, H-H.**: Dog-assisted therapy in the rehabilitation clinic: a single-subject case study; poster presentation at the 2016 Texas Physical Therapy Association Annual Conference, Fort Worth, TX, October 27-30, 2016.
8. Schultz, J.T., Parker, A., Curtis, D., Daniel, J.; **Huang, H-H.**: The physiological and psychological benefits of CrossFit training – A pilot study; poster presentation at the American College of Sports Medicine, Texas Chapter Annual Meeting, College Station, TX, March 2-4, 2016. (Abstract was published at International Journal of Exercise Science: Conference Proceedings: Vol. 2: Iss. 8, Article 14.)

9. Curtis, D., **Huang, H-H.**: Beliefs and attitudes toward patient deception: An intervention for change; platform presentation at the Southwestern Psychological Association Convention, Wichita, KS, April 10-12, 2015.
10. **Huang, H-H.**, Ramachandran, K., Stehno-Bittel, L.: Islet equivalent measurements overestimate the volume of large islets, leading to erroneous results; poster presentation at the 11th Annual Rachmiel Levine Diabetes and Obesity Symposium, Pasadena, CA, March 20-23, 2011.
11. **Huang, H-H.**, Farmer, K., Windscheffel, J., Mason, K., Power, M., Wright, D., Stehno-Bittel, L.: Voluntary exercise improves insulin content in the pancreatic islets in type 1 diabetic mice; platform presentation at the Combined Section Meeting of American Physical Therapy Association, New Orleans, LA, February 9-12, 2011.
12. **Huang, H-H.**, Novikova, L., Smirnova, I.V., Williams, S.J., MacGregor, R., Stehno-Bittel, L.: Human pancreata contain islet subpopulations that secrete little insulin; poster presented at the 7th Annual Great Plains Pediatric Endocrine Symposium, Overland Park Convention Center, Overland Park, KS, October 14-15, 2010.
13. Ramachandran, K., Williams, S.J., **Huang, H-H.**, Berkland, C., Stehno-Bittel, L.: Engineering optimal islets for transplantation for type 1 diabetes; poster presented at the 7th Annual Great Plains Pediatric Endocrine Symposium, Overland Park Convention Center, Overland Park, KS, October 14-15, 2010.
14. Wang, W., Guo, Y., Xu, M., **Huang, H-H.**, Frontera, J., Novikova, L., Stehno-Bittel, L., Zhu, H.: ER-stress mediates beta-cell demise in Ncb5or null diabetes mouse model; poster presented at the 7th Annual Great Plains Pediatric Endocrine Symposium, Overland Park Convention Center, Overland Park, KS, October 14-15, 2010.
15. Novikova, L., Stehno-Bittel, L., Artigues, A., Villar, MT, Williams, S.J., **Huang, H-H.**, Kover, K., Smirnova, I.V.: Pancreatic islet transplantation to treat diabetes – defining molecular tools to select suitable islets; poster presented at the 7th Annual Great Plains Pediatric Endocrine Symposium, Overland Park Convention Center, Overland Park, KS, October 14-15, 2010.
16. **Huang, H-H.**, Farmer, K., Windscheffel, J., Mason, K., Power, M., Wright, D., Stehno-Bittel, L., The effect of voluntary exercise on pancreatic islets in type 1 diabetic mice; poster presentation at the Kansas Physical Therapy Association Spring Conference, Wichita, KS, Apr 9-11, 2010.
17. Ramachandran, K., **Huang, H-H.**, Berkland, C., Novikova, L., Stehno-Bittel, L.: Engineering optimal islets for transplantation for type 1 diabetes; poster presentation at the Translational Regenerative Forum, Winston-Salem, NC, April 7-9, 2010
18. Novikova, L., Smirnova, I.V., Williams, S.J., **Huang, H-H.**, Kover, K., MacGregor, R., Stehno-Bittel, L.: Human pancreata contain islet subpopulations that secrete little insulin; poster presentation at the 10th Annual Rachmiel Levine Diabetes and Obesity Symposium, Las Vegas, NV, March 14-17, 2010
19. Novikova, L., Stehno-Bittel, L., Artigues, A., Villar, M.T., Williams, S.J., **Huang, H-H.**, Kover, K., Smirnova, I.V.: Pancreatic islet transplantation to treat diabetes – defining molecular tools to select suitable islets; poster presentation at the Missouri Regional Life Science Summit, Kansas City, MO, March 8-9, 2010
20. Ramachandran. K., **Huang, H-H.**, Berkland, C., Stehno-Bittel, L.: Engineering optimal islets for transplantation for Type 1 diabetes; poster presentation at the Missouri Regional Life Science Summit, Kansas City, MO, March 8-9, 2010
21. Williams, S.J., **Huang, H-H.**, Kover, K., Moore, W., Berkland, C., Singh, M., Smirnova, I.V., MacGregor, R., Stehno-Bittel, L.: Reduction of diffusion barriers in isolated islets improves survival, but not insulin secretion; poster presentation at the 9th Annual Rachmiel Levine Diabetes and Obesity Symposium, Anaheim, CA, March 18-21, 2009

Non-Peer Reviewed Presentations:

1. **Huang, H-H.**: Physical activity and diabetes; educational classes for San Angelo Diabetes Coalition; San Angelo, TX, Jan 23, Feb 27, Mar 27, Apr 24, Jul 24, 2019.
2. **Huang, H-H.**: The investigation of the effects of low level laser therapy on insulin secretion in porcine islets; platform presentation at the TPTA Midwest District meeting, San Angelo, TX, Apr 10, 2014.
3. **Huang, H-H.**: Total cell number- a superior model for volume quantification of isolated islets compared to islet equivalent measurement; platform presentation at the 12th Annual Symposium Biomedical Research Training Program Symposium, University of Kansas Medical Center, Kansas City, KS, Jun 16, 2011.
4. **Huang, H-H.**: Identifying mechanisms for superior insulin secretion in small rat islets; platform presentation at the 11th Annual Symposium Biomedical Research Training Program Symposium, University of Kansas Medical Center, Kansas City, KS, Jun 16, 2010.
5. **Huang, H-H.**: The effect of voluntary exercise on pancreatic islets in type 1 diabetic mice; poster presentation, Student Research Forum, University of Kansas Medical Center, Kansas City, KS, April 15, 2010.
6. **Huang, H-H.**: Small rat islets hold superior potential to the same volume of large islets in insulin production; platform presentation at the Student Research Forum, University of Kansas Medical Center, Kansas City, KS, April 9, 2009
7. **Huang, H-H.**: The influence of diffusion barriers on grafts viability after islet transplantation; platform presentation at the Student Research Forum, University of Kansas Medical Center, Kansas City, KS, April 10, 2008

Funded/In Review Grant Activity:

PI

\$15,000 total direct costs

"The investigation of the effects of therapeutic electrical stimulation on people with type 2 diabetes."

2016-2017, Faculty Research Enhancement Program Award, Angelo State University

PI

\$2,200 total direct costs

"Comparison of electrical stimulation parameters in postprandial skeletal muscle glucose uptake."

2015-2016, Texas Physical Therapy Foundation

PI

\$15,000 total direct costs

"The investigation of the effect of therapeutic pulsed ultrasound on controlling blood sugar in diabetes."

2015-2016, Faculty Research Enhancement Program Award, Angelo State University

Co-PI

\$5,000 total direct costs

"The investigation of the effects of animal-assisted therapy on post-stroke rehabilitation."

2014-2015, Faculty Research Enhancement Program Award, Angelo State University

PI

\$10,000 total direct costs

“The investigation of the potential of infrared light therapy in controlling blood sugar in diabetes.”

2013-2014, Faculty Research Enhancement Program Award, Angelo State University

PI

\$10,307 total direct costs

“Start-up funds to establish a cell-culture laboratory in physical therapy.”

2012-2013, Faculty Research Enhancement Program Award, Angelo State University

PI

\$23,000 total direct costs

Predocctoral Scholarship - “Identifying mechanisms of insulin production and secretion in small and large rat islets.”

2009-2011, Biomedical Research Training Program, University of Kansas Medical Center

Membership in Scientific/Professional Organizations:

Member

American Physical Therapy Association

2016 to Present

Member

Texas Physical Therapy Association

2016 to Present

Member

Kinesio Taping Association International

2016 to Present

Member

Southwestern Psychological Association

2014 to 2015

Faculty Partner

American Physical Therapy Association

2012 to 2014

**Services to the University/College/Department/Community
on Committees/Councils/Commissions:**

University:

Member, Institutional Review Board (IRB)

Angelo State University

2015 to present

Member, Institutional Biosafety Committee (IBC)

Angelo State University
2016 to present

Member, Academic Assessment Committee
Angelo State University
2018 to present

Member, Chemical Hygiene Committee
Angelo State University
2016 to present

College:

Member, College Curriculum Committee
Angelo State University
2016 to present

Department:

Member, Curriculum Committee
Physical Therapy Program, Angelo State University
2012 to present

Member, Academic Committee
Physical Therapy Program, Angelo State University
2012 to present

Member, Admissions Committee
Physical Therapy Program, Angelo State University
2012 to 2014

Community:

Board Member
San Angelo Diabetes Coalition
San Angelo, TX
2018 to present

Honors and Awards:

Faculty Excellence in Research/Creative Endeavor Award
Angelo State University, San Angelo, TX
2017

2015 College of Graduate Studies Gonfalonier
Angelo State University, San Angelo, TX
2015

2009 First Place Award School of Allied Health
Student Research Forum
University of Kansas Medical Center, Kansas City, KS
2009

PTRS Award for Outstanding Research Presentation in Rehabilitation Science
Student Research Forum
University of Kansas Medical Center, Kansas City, KS
2009

First Place Award, Session for Clinical Studies III
Student Research Forum
University of Kansas Medical Center, Kansas City, KS
2009

Manuscript Reviewer for the Following Scientific Journals:

Tissue Engineering, 2013-Present
Cardiovascular Toxicology, 2013-Present
Chinese Journal of Integrative Medicine, 2014-Present
Journal of Applied Physiology, 2014-Present
International Journal of Sports and Exercise Medicine, 2015-Present
Menopause, 2015-Present
PLOS ONE, 2018-Present

Current Teaching Responsibilities in the Entry-level Physical Therapy Program:

PT 7710, Clinical Anatomy, summer, 1st year
PT 7240, Evidence Based Practice in Physical Therapy, fall, 1st year
PT 7241, Clinical Research for Physical Therapy, spring, 1st year
PT 7353, Musculoskeletal Examination & Management I, fall, 2nd year
PT 7243, Evidence Based Practice Seminar II, fall, 3rd year
PT 7344, Evidence Based Practice Seminar III, spring, 3rd year

Mentoring:

Served as the research mentor and committee chair for the following students at the Department of Physical Therapy, Angelo State University:

Class of 2015

Martin Estrada

Class of 2016

Katherine Coleman, Suzanne Deegan, Trevor Hansen, Annika Johnson, Charity McCluskey, Darren Raptis and April Rew

Class of 2017

Landon Cook, Kelsey Daniel, Jessica Harrison, Nicole Okeefe and Jordan Schultz

Class of 2018

Graduate Student Research Fellows at Angelo State University for spring 2017:

Brian Cook-Lindsay, Brianna Gathright, Rachel Holik, Hannah Iverson and Emily Saville