

CURRICULUM VITAE

Han-Hung (Floyd) Huang
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Doctor of Physical Therapy Program, Angelo State University

Date of Revision: Aug, 2014

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, Taiwan, PT 003513, active

Employment and Positions Held: Assistant Professor
Graduate Faculty
Tenure track
Angelo State University
San Angelo, TX
From 2012 to present

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:

- Ramachandran, K., Huang, H-H., Stehno-Bittel, L., (2014) A Simple Method to Replace Islet Equivalents for Volume Quantification of Human Islets. *Cell Transplantation*, (Epub ahead of print)
- Rawal, S., Huang, H-H., Novikova, L., Hamed, T., Smirnova, I.V., Stehno-Bittel, L., (2013) Effect of exercise on pancreatic islets in Zucker diabetic fatty rats. *J Diabetes Metab*, S10:007
- 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.
- 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
- Huang, H-H., Ramachandran, K., Stehno-Bittel, L., (2012) A replacement for islet equivalents with improved reliability and validity. *Acta Diabetol*, [Epub ahead of print]
- 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)
- 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.
- 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)
- 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*, 6:2,115-124.

Peer Reviewed Scientific and Professional Presentations:

- 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.
- 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, Feb 9-12, 2011.
- 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.

- 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.
- 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.
- 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 presented at the 7th Annual Great Plains Pediatric Endocrine Symposium, Overland Park Convention Center, Overland Park, KS, October 14-15, 2010.
- 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.
- 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
- 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
- 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
- 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
- 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:

- 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.
- 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.
- 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.
- 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

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, April10, 2008

Funded/In Review Grant Activity:

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:

Faculty Partner
American Physical Therapy Association
2012 to present

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

Program: Member
Admissions Committee
2012 to present

Member
Academic Committee
2012 to present

Member
Curriculum Committee
2012 to present

Honors and Awards: 2009 First Place Award School of Allied Health
Student Research Forum
The University of Kansas Medical Center, Kansas City, KS
2009

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

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

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 7353, Musculoskeletal Examination & Management I, fall, 2nd year
PT 7556, Musculoskeletal Examination & Management II, spring, 2nd year
PT 7344, Evidence Based Practice Seminar III, spring, 3rd year