

CURRICULUM VITAE

Lisa Stehno-Bittel

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 Department of Physical Therapy and Rehabilitation Science
 University of Kansas Medical Center

Education

Mayo School of Medicine, Rochester, MN	1992-1995	Pharmacology	Post-doc	1995
University of Missouri , Columbia, MO	1988-1992	Physiology	PhD	1992
University of Kansas, Lawrence, KS	1978-1983	Physical Therapy	BS	1983

Licensure Information/Registration Number

Physical Therapy, State of Missouri, PT 01322, inactive

Employment and Positions Held

President and Founder	Likarda, LLC, Kansas City, KS	2012-present
Professor	Univ. Kansas Med Center, Kansas City, KS Dept. of Physical Therapy and Rehab Sci	2006-present
Chair	Univ. Kansas Med Center, Kansas City, KS Dept. of Physical Therapy and Rehab Sci	2006-2015
Associate Professor, adjunct	Univ. Kansas Med Center, Kansas City, KS Anatomy and Cell Biology	2001-2006
Associate Professor, tenured	Univ. Kansas Med Center, Kansas City, KS Dept. of Physical Therapy and Rehab Sci	2000-2006
Assistant Professor, adjunct	Univ. Kansas Med Center, Kansas City, KS Dept. of Anatomy and Cell Biology	1996-2000
Assistant Professor, tenure track	Univ. Kansas Med Center, Kansas City, KS Dept. of Physical Therapy and Rehab Sci	1995-2000
Instructor	Mayo School of Medicine Dept. of Pharmacology	1993-1995
Post-Doctoral Fellow	Mayo School of Medicine Dept of Pharmacology	1992-1993
Research Assistant Physical Therapist	Univ. of Missouri, Columbia, MO Independent consultant, Early Intervention and Home Health	1989-1992 1988-1992
Graduate Teaching Assistant	Univ. of Missouri, Columbia, MO	1988-1989
Staff Physical Therapist	Univ. of Missouri, Columbia, MO	1987-1988
Staff Physical Therapist	Lawrence School District, Lawrence, KS	1985-1987
Staff Physical Therapist	Visiting Nurses Assoc., Lawrence, KS	1983-1987

Peer Reviewed Publications

1. Huang H-H, **Stehno-Bittel L** (2015) Differences in insulin biosynthesis pathway between small and large islets do not correspond to insulin secretion. *Islets*, in press.

2. Cole C, Burgoyne T, Lee A, **Stehno-Bittel L**, Zaid G (2015) Arum palaestinum with isovanillin, linolenic acid and beta-sitosterol inhibits prostate cancer spheroids and reduces the growth rate of prostate tumors in mice. *BMC Complement Altern Med*, 15:322.
3. Ramachandran K, Huang HH, **Stehno-Bittel, L.** (2014) A simple method to replace islet equivalents for volume quantification of human islets. *Cell Transplantation*, 24(7):1183-1194.
4. Ramachandran K, Peng X, Bokvist K, **Stehno-Bittel L.**(2014) Reaggregated human pancreatic islets for secondary drug screening. *Br J Pharmacol*. 2014 Feb 12. doi: 10.1111/bph.12622.
5. Farhat B, Almelkar A, Ramachandran K, Williams SJ, Huang HH, 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.
6. Rawal S, Huang H-H, Novikova L, Hamedi T, Smirnova IV, **Stehno-Bittel L.** (2013) Effect of exercise on pancreatic islets in Zucker diabetes fatty rats. *J. Diabetes and Metab*, 2013, S10-007.
7. Schwasinger-Schmidt T, Robbins DC, Williams SJ, Novikova L, **Stehno-Bittel L.** (2013) Long-term liraglutide treatment is associated with increased insulin content and secretion in β -cells, and a loss of α -cells in ZDF rats. *Pharmacol Res.* 76:58-66.
8. Aljotawi OS, Li D, Xiao Y, Zhang D, Ramachandran K, **Stehno-Bittel L**, Van Veldhuizen P., Lin TL, Kambhampati S, Garimella R (2013) A novel three-dimensional stromal-based model for in vitro chemotherapy sensitivity testing of leukemia cells. *Leuk Lymphoma*, 55(2):378-391.
9. Kover K, Tong PY, Watkins D, Clements M, **Stehno-Bittel L**, Novikova L, Bittel D, Kibiryeve N, Stuhlsatz J, Yan Y, Ye SQ, Moore WV. (2013) Expression and regulation of nampt in human islets. *PLoS One*, 8(3):e58767.
10. Crawford MH, Novikova L, Beaty KG, **Stehno-Bittel, L**, Robbins D (2013) Biological markers of late adult autoimmune form of diabetes (LADA) in European Americans, *Am J Human Biol* 25(2):254—255.
11. Aljotawi OS, Xiao Y, Zhang D, **Stehno-Bittel L**, Garimella R, Hopkins RA, Detamore MS. (2013) Generating CK19-positive cells with hair-like structures from Wharton's jelly mesenchymal stromal cells. *Stem Cells Dev.* 22(1):18-26.
12. Dotson, A, Novikova, L, **Stehno-Bittel, L**, Benedict, H. (2013) Elimination of T cell reactivity to pancreatic beta- cells and partial preservation of beta- cell activity by blockade of LFA-1:ICAM-1 in the NOD mouse model *Clin Immun.*, 148(2):149-161.
Chosen as 2013 Key Scientific Article by Global Medical Discovery.
13. Novikova L, Smirnova IV, Rawal S, Dotson AL, Benedict SH, **Stehno-Bittel L.** (2013) Variations in rodent models of type 1 diabetes: islet morphology. *J. Diabetes Res.* 2013:95832.
14. Ramachandran K, Williams SJ, Huang HH, Novikova L, **Stehno-Bittel L.** (2013) Engineering islets for improved performance by optimized reaggregation in a micromold., *Tissue Eng Part A.* 19(5-6):604-12.
15. Huang HH, Ramachandran K, **Stehno-Bittel L.** (2013) A replacement for islet equivalents with improved reliability and validity. *Acta Diabetol.* 50:687-696.

16. Farmer K, Williams SJ, Novikova L, Ramachandran K, Rawal S, Blagg BS, Dobrowsky R, **Stehno-Bittel L** (2012) KU-32, a novel drug for diabetic neuropathy, is safe for human islets and improves in vitro insulin secretion and viability. *Exp Diabetes Res.* 2012;2012:671673.
17. Williams SJ, Schwasinger-Schmidt T, Zamierowski D, **Stehno-Bittel L** (2012) Diffusion into human islets is limited to molecules below 10 kDa. *Tissue Cell.* 44(5):332-41.
18. Huang HH, Farmer, K, Windscheffel J, Yost K, Power M, Wright, DE, **Stehno-Bittel, L.** (2011) Exercise increases insulin content and basal secretion in pancreatic islets in type 1 diabetic mice. *Exp. Diabetes Res.* 2011, 481427, 2011.
19. Searls Y, Bunag RD, Fegley B, Smirnova IV, **Stehno-Bittel L**, (2011) Time-dependent alterations in rat macrovessels with type 1 diabetes. *Exp. Diab. Res.* 2012;2012:278620.
20. Wang, WF, Guo Y, Xu M, Huang H-H, Novikova L, Larade K, Jiang ZG, Thayer TC, Frontera JR, Aires D, Ding H, Turk J, Mathews CE, Bunn HF, **Stehno-Bittel L**, Zhu H (2011) Development of Diabetes in Ncb5or-Null Lean Mice is Associated with Manifestations of Endoplasmic Reticulum and Oxidative Stress in Beta Cells. *Biochimica et Biophysica Acta* 1812(11):1432-1541.
21. VanHoose L, Novikova L, **Stehno-Bittel L**, Smirnova IV, (2011) Diabetes induces cardiac edema and impaired pressure/volume relationship in the heart. *Cardiovasc Diabetol.*
22. Huang HH, Novikova L, Williams JS, Smirnova IV, **Stehno-Bittel, L** (2011) Low insulin content of large islet population is present in situ and in isolated islets, *Islets*.3(1):6-13 (<http://www.landesbioscience.com/journals/islets/article/14132>) .
23. Searls, Y., Loganathan, R., Smirnova, IV, **Stehno-Bittel, L.** (2010) Intracellular Ca²⁺ regulating proteins in vascular smooth muscle cells are altered with type 1 diabetes due to the direct effects of hyperglycemia.. *Cardiovas Diabet*, 9:8.
24. VanHoose L, Sawers Y, Loganathan R, Vacek JL, **Stehno-Bittel L**, Novikova L, Al-Jarrah M, Smirnova IV. (2010) Electrocardiographic changes with the onset of diabetes and the impact of aerobic exercise training in the ZDF rat, *Cardiovasc Diabetol.* 9(1):56.
25. Al-Jarrah MD, Matalaka I, Al Aseri H, Mohtaseb A, Smirnova IV, Novikova L, **Stehno-Bittel L**, Al-Khateeb A, Bweir,S. (2010) Exercise Training Prevents Endometrial Hyperplasia and Biomarkers for Endometrial Cancer in Rat Model of Type 1 Diabetes. *J Clin Med Res.* 2(5) 207-214).
26. Williams, S.J., Huang, H., Kover, K., Moore, W., Berkland, C., Singh, M., **Stehno-Bittel, L.** (2010) Reduction of Diffusion Barriers in Isolated Islets Improves Survival, But Not Insulin Secretion, *Organogenesis*, 6:2, 115-124.
27. Ahmad, SO., Park, J.H., **Stehno-Bittel, L.**, Lau, Y.S. (2009) Effects of endurance exercise on ventral tegmental area neurons in the chronic 1 methyl-4-phenyl-1,2,3,6-tetrahydropyridine and probenecid-treated mice. *Neurosci Lett.* 450(2):102-105.
28. Williams SJ, Wang Q, MacGregor R, Siahaan T, **Stehno-Bittel L**, Berkland C.(2009) Adhesion of pancreatic beta cells to biopolymer films, *Biopolymers*, 91(8): 676-685.

29. Fischer, K.J., Novak, E.A., Smirnova, I.V., Reddy, G.K., **Stehno-Bittel, L.** (2009) Effects of diabetes and exercise on soft connective tissue properties at the knee in the rat. *J. Musculoskel Res*, 12(2):95-104.
30. Bweir, S., Al-Jarrah, M., Almalty, A-M, Maayah, M., Smirnova, IV, Novikova, L., **Stehno-Bittel, L.**, (2009) Resistance exercise training lowers HbA1c more than aerobic training in adults with type 2 diabetes. *Diabetol Metab Syndr*. 1(1):27.
31. Yao, H., Peng, F., Dhillon, N., Callen, S., Bokhari, S., **Stehno-Bittel, L.**, S. Ahmad, O., Wang, J., Buch, S. (2009) Involvement of TRPC channels in CCL2-mediated neuroprotection against Tat toxicity. *J Neuroscience*. 29(6):1657-1669.
32. **Stehno-Bittel, L.** (2008) The intricacies of fat. *Physical Therapy*, 88(11), 1265-78.
33. Al-Jarrah, M., Pothakos, K., Novikova, L., Smirnova, I.V., Kurz, M.J., **Stehno-Bittel, L.**, Lau, Y-S. (2007) Endurance exercise promotes cardiorespiratory rehabilitation without neuronrestoration in the chronic mouse model of Parkinsonism with severe neurondegeneration. *Neuroscience*, 149(1), 28-37.
34. Smirnova IV, Kibiriyeva N, Vidoni E, Buñag RD, **Stehno-Bittel L.** (2006) Abnormal EKG stress test in rats with type 1 diabetes is deterred with low-Intensity exercise program. *Acta Diabetologica*, 43(3), 66-74.
35. MacGregor, R., Williams, S.J., Tong, P.Y., Kover, K., Moore, W.V., **Stehno-Bittel, L.** (2006) Small rat islets are superior to large islets in function and transplantation outcomes, *American Journal Physiology Endocrinology Metabolism*. 290(5), E771-779.
36. Sui, Y., **Stehno-Bittel, L.**, Li, S., Loganathan, R., Dhillon, NK., Pinson, D., Nath, A., Kolson, D., Narayan, O., Buch, S. (2006) CXCL10-induced cell death in neurons: role of calcium dysregulation, *European Journal Neuroscience*, 23(4), 957-964.
37. Loganathan, R., Searls, Y. M., Smirnova, I.V. **Stehno-Bittel, L.** (2006) Exercise induced benefits in individuals with Type 1 diabetes, *Physical Therapy Reviews*, 11, 77-89.
38. Unruh, J.R., Price, E.S., Molla, R.G., **Stehno-Bittel, L.**, Johnson, C.K., Hui, R. (2006) Two-Photon Microscopy with Wavelength Switchable Fiber Laser Excitation, *Optics Express*, 14, 9825-9831.
39. Burns, D., **Stehno-Bittel, L.**, Kawase, T., (2004) Calcitonin gene-related peptide elevates calcium and polarizes membrane potential in MG63 cells by both cAMP-independent and – dependent mechanisms. *American Journal Physiology: Cell Physiology*. 287(2), C457-67.
40. Fedoryak, O.D., Searls, Y., Smirnova, I.V., Burns, D., **Stehno-Bittel, L.**, (2004) Spontaneous nuclear Ca²⁺ oscillations in subcellular compartments of vascular smooth muscle cells rely on different Ca²⁺ pools, *Cell Research* 14(5), 379-88. IF 8.15
41. Searls, Y., Smirnova, I.V., Fegley, B.R., **Stehno-Bittel, L.** (2004) Exercise attenuates diabetes-induced ultrastructural changes in rat cardiac tissue, *Medicine Science Sports Exercise*, 36(11), 1863-70. IF 3.7
42. Chi, L., **Stehno-Bittel, L.**, Smirnova, I.V., Stechschulte, D., Dileepan, K.N. (2003) The effects of mast cell granules on calcium mobilization, MAP kinase activation and NF-κB translocation in

- endothelial cells. *Mediators of Inflammation*. 12, 79-87. IF 2.019.
43. Timberlake, G.T., Reddy, G.K., **Stehno-Bittel, L.**, Weber, J.F., Amslinger, S., Givens, R.S. (2002) Photoactivated coumaryl-diazopyruvate fluorescent label for amine functional groups of tissues containing type-1 collagen. *Photochemical and Photobiological Sciences* 76, 473-479.
 44. Reddy, G.K., **Stehno-Bittel, L.**, Enwemeka, C.S. (2002) Glycation-induced matrix stability in the rabbit achilles tendon. *Archives Biochemistry Biophysics*. 15, 399(2), 174-80. IF 3.046
 45. Chi, L., Li, Y., **Stehno-Bittel, L.**, Gao, J., Morrison, D.C., Stechschulte, D.J., Kileepan, K.N.(2001) Interleukin-6 production by endothelial cells via stimulation of protease-activated receptors is amplified by endotoxin and tumor necrosis factor- α *Journal of Interferon & Cytokine Research* 21, 231-240. IF 1.63
 46. Reddy, G.K., **Stehno-Bittel, L.**, Enwemeka, C.S. (2001) Laser therapy accelerates wound healing. *Wound Repair and Regeneration*. 9, 248-256. IF 2.781
 47. Reddy, G.K., **Stehno-Bittel, L.**, Hamade, S., Enwemeka, C.S. (2001) Biomechanical integrity of bone in experimental diabetes. *Diabetes Research. and Clinical Practice* 54, 1-8. IF 2.160
 48. Reddy, G.K., Enwemeka, C.S., **Stehno-Bittel, L.** (1999) Comparison of biomechanical and biochemical properties of the Achilles tendon, *Lasers Surgery Medicine*. 22, 281-287. IF 2.6
 49. Reddy, G.K., **Stehno-Bittel, L.**, Enwemeka, C.S. (1999) Matrix remodeling in regenerating Achilles tendon, *Wound Repair and Regeneration*.7, 518-527. IF 2.781
 50. **Stehno-Bittel, L.**, Reddy, G.K., Gum, S. (1998) Enwemeka, C.S.(1998) Biochemistry and Biomechanics of healing tendon: Part 1. The effects of rigid plaster casts and functional polyurethane casts. *Medicine Science Sports Exercise* 30, 788-793, 1998. IF 3.7
 51. Reddy, G.K., Gum, S., **Stehno-Bittel, L.**, Enwemeka, C.S.(1998) Biochemistry and Biomechanics of healing tendon: Part 2. Effects of combined laser therapy and electrical stimulation, *Medicine Science Sports Exercise* 30, 794-800. IF 3.7
 52. Reddy, G.K., **Stehno-Bittel, L.**, Enwemeka, C.S. (1998) Laser photostimulation of collagen production in healing rabbit Achilles tendon. *Lasers. Surgery Medicine*, 22, 281-287. IF 2.160
 53. Lee, M.A., Dunn, R., Clapham, D., **Stehno-Bittel, L.** (1998) Calcium control of nuclear pore permeability. *Cell Calcium* 23, 91-101. IF 4.288
 54. Perez-Terzic, C., **Stehno-Bittel, L.**, Clapham, D. (1997) Fluorescent dye behavior in the nuclear environment. *Cell Calcium* 21, 275-282. IF 4.288
 55. Gum, G., Reddy, G.K., **Stehno-Bittel, L.**, Enwemeka, C.S. (1997) Combined ultrasound, electrical stimulation, and laser promote collagen synthesis with moderate changes in tendon biomechanics. *Am. Journal Physical Medicine Rehabilitation* 76, 288-296. IF 1.556
 56. **Stehno-Bittel, L.**, Terez-Terzic, C., Luckhoff, A., Clapham, D. (1996) Nuclear ion channels and regulation of the nuclear pore. *General Physiology* 51, 195-207.
 57. Perez-Terzic, C., Pyle, J., **Stehno-Bittel, L.**, Jaconi, M., Clapham, D. (1996) Conformational states of the nuclear pore complex induced by depletion of nuclear Ca^{2+} stores, *Science* 273,

1875-1877. **IF 29.74**

58. **Stehno-Bittel, L.**, Luckhoff, A., Clapham, D. (1995) Calcium release from the nucleus by InsP₃ receptor channels, *Neuron* 14, 1-5. IF 14.67
59. **Stehno-Bittel, L.** (1995) Calcium signaling in normal and abnormal brain function. *Neurology Report*, 19, 12-17. IF 0
60. **Stehno-Bittel, L.**, Krapivinsky, G., Krapivinsky, L., Perez, C., Clapham, D. (1995) The G protein $\beta\gamma$ subunit transduces the muscarinic receptor signal for Ca²⁺ release in *Xenopus* oocytes, *Journal Biological Chemistry*, 270, 30068-30074. IF 5.854
61. **Stehno-Bittel, L.**, Perez-Terzig, C., Clapham, D. (1995) Diffusion across the nuclear envelope inhibited by depletion of the nuclear Ca²⁺ store, *Science* 270, 1835-1838. IF 29.74
62. **Stehno-Bittel, L.**, Amundson, J., Clapham, D. (1994) G protein mediated pathways assayed by electrophysiology and confocal microscope. *Method Enzymology*, 238, 321-335.
63. **Stehno-Bittel, L.**, Sturek, M. (1992) Spontaneous sarcoplasmic reticulum Ca²⁺ release and extrusion from bovine, not porcine, coronary artery smooth muscle. *Journal Physiology* 451, 49-78. IF 4.764
64. **Stehno-Bittel, L.**, Laughlin, M., Sturek, M. (1991) Exercise training depletes sarcoplasmic reticulum Ca²⁺ in coronary smooth muscle. *Journal Applied Physiology* 71(5), 1764-1773.
65. **Stehno-Bittel, L.**, Laughlin, M., Sturek, M. (1990) Exercise training alters Ca²⁺ release from coronary smooth muscle sarcoplasmic reticulum. *American Journal Physiology*, 259, H643-647.

Non-Peer Reviewed Publications (invited author)

Editorial

Stehno-Bittel, L. Exercise for people with diabetes: If it is all good, why are we still studying it? (2013) *J. Diabetes Metabl.* 2013, S10-e001.

Book Chapters

Stehno-Bittel, L. Physical and electrical properties of cells in the nervous system, Lundy-Ekman, L. edit., In: *Neuroscience: Fundamentals for Rehabilitation*, 4th edition, W. B. Saunders, 2010.

Stehno-Bittel, L. Synapses and synaptic transmission, Lundy-Ekman, L. edit. In: *Neuroscience: Fundamentals for Rehabilitation*. 4th edition, W. B. Saunders, 2010.

Stehno-Bittel L., Al-Jarrah M, Williams SJ, Diabetes and skeletal muscle, PM Tiidus, edit *Skeletal Muscle Damage and Repair: Mechanisms and Intervention*, 1st ed, Champaign, Il: Human Kinetics Inc; 2008, pg. 135-146.

Stehno-Bittel, L. Smirnova, I., Chapter 10, The Endocrine and Metabolic Systems, In: *Pathology*, Edit. Carolyn Goodman, 3rd edition Elsevier Science, 2007.

Stehno-Bittel, L. Physical and electrical properties of cells in the nervous system, Lundy-Ekman, L. edit., In: *Neuroscience: Fundamentals for Rehabilitation*, 3rd edition, W. B. Saunders, 2005.

Stehno-Bittel, L. Synapses and synaptic transmission, Lundy-Ekman, L. edit. In: *Neuroscience: Fundamentals for Rehabilitation*. 3rd edition, W. B. Saunders, 2005.

Wickman, K., Hedin, K., Perez, C., Krapivinsky, G., **Stehno-Bittel, L.**, Belimirovic, B., Clapham, D. The switch assembly paradigms of transmembrane signaling. In: *Handbook of Physiology*. Edit. Hoffman, J. and Jamieson, J. Oxford University Press, 1995.

Sturek, M., Smith, P., **Stehno-Bittel, L.** *In vitro* models of vascular endothelial cell Ca²⁺ regulation. Ion Channels of Vascular Smooth Muscle Cells and Endothelial Cells. Edit. Sperelakis and Kuriyama, Elsevier Pub. pp. 349-364, 1991.

Sturek, M., **Stehno-Bittel, L.**, Obye, P. Methods for simultaneous voltage-clamp, microfluorometry, and video of cells. Ion Channels of Vascular Smooth Muscle Cells and Endothelial Cells. Edit. Sperelakis and Kuriyama, Elsevier Pub. pp. 269-294, 1991.

Sturek, M., **Stehno-Bittel, L.** Obye, P. Modulation of ion channels by calcium release in coronary artery smooth muscle. Ion Channels of Vascular Smooth Muscle Cells and Endothelial Cells. Edit. Sperelakis and Kuriyama, Elsevier Pub. pp. 65-80, 1991.

Peer Reviewed and Invited Scientific and Professional Presentations

1. **Stehno-Bittel, L.**, Ramachandran, K. High-throughput Drug Screening in 3D. American Association of Pharmaceutical Scientists, Orlando, FL, 2015.
2. Harrington, S, **Stehno-Bittel, L.** New hydrogel for encapsulating islets not based on alginate. Midwest Islet Club, Birmingham AL., 2014.
3. Aljitawi, OS., Xiao, Y., Buse, E., Converse, G., Zhang, D., Garimella, R., Hopkins, RA., Detamore, MS., **Stehno-Bittel, L.** Cell condensation with versican expression, Hedgehog signaling, and changes in BMP-4 secretion drive the development of hair-like structures in vitro. BioEngineering Conference, Los Angeles, 2013.
4. Rawal, S., Ramachandran, K., **Stehno-Bittel, L.** Cryopreservation of pancreatic islets: Optimized method. Midwest Islet Club, Ann Arbor, MI, 2013.
5. Ramachandran, K., Peng, X, Bokvist, K., **Stehno-Bittel, L.** Reaggregated human pancreatic islets for secondary drug screening. Midwest Islet Club, Ann Arbor, MI, 2013.
6. Schwasinger-Schmidt, T., Williams, SJ., Novikova L., **Stehno-Bittel, L.** Robbins, DC. Abnormal islet cell composition in liraglutide-treated ZDF rats. AACE National Meeting, Boston, MA, 2013
7. Aljitawi OS., Xiao, Y., Ramachandran, K., Lipe, BC., Garimella, R., Krishnan, A., **Stehno-Bittel, L.** A 3-dimensional co-culture model to investigate adhesion-mediated drug resistance in multiple myeloma. ASH, Miami, FL, 2012.
8. Rawal, S., Huang, HH., Smirnova, IV., **Stehno-Bittel, L.** Effect of exercise on pancreatic islets in Zucker diabetic fatty rat. KPTA, Wichita, KS., 2012.

9. Ramachandran, K., Williams, S.J., **Stehno-Bittel, L.**, Engineering islets offers improved performance. Midwest Islet Club, Pittsburg, PA, 2012.
10. VanHoose, L., Loganathan, R., Novikova, L., **Stehno-Bittel, L.** Aerobic exercise restores most of the left ventricular hemodynamic parameters in Zucker diabetic fatty rats. American Heart Association, Orlando. FL, 2011
11. Huang, H.H., Ramachandran, K., **Stehno-Bittel, L.** Islet equivalent measurements overestimate the volume of large islets, leading to erroneous results. Levine Symposium, Santa Monica, CA., 2011.
12. **Stehno-Bittel, L.**, Bioengineering Approach to Islet Transplantation, 2010 Translational Regenerative Medicine Forum. Wake Forest, Salem NC, April 2010.
13. **Stehno-Bittel, L.**, The molecular effect of exercise on organs in people with diabetes, Departmental Seminar, Washington University, St. Louis, MO April, 2010.
14. **Stehno-Bittel, L.**, Smirnova, I.V., Williams, S.J., MacGregor, R., Novikova, L., Human Pancreata Contain Islet Subpopulations that Secrete Little Insulin, Rachmiel Levine Symposium, Las Vegas, March 2010.
15. **Stehno-Bittel, L.** Creating the Perfect Islet, Departmental Seminar, Rocky Vista Medical College, Denver, CO, Feb. 2010.
16. Williams, S.J., Huang, H.H., Kover, K., Moore, W., Berkland, C., Singh, M., MacGregor, R., **Stehno-Bittel, L.**, Reduction of diffusion barriers in isolated islets improves survival, but not insulin secretion. 9th Annual Levine Diabetes and Obesity Symposium, Anaheim CA, March 2009.
17. Brach, J.S., Cade, T., Cohn, R., Mueller, M.J., Sinacore, D., **Stehno-Bittel, L.**, People With Diabetes: A Population Desperate for Movement, Combined Sessions Meeting of the American Physical Therapy Association Annual Meeting, Las Vegas, NV. Feb. 2009.
18. **Stehno-Bittel, L.** The size of the islet affects transplantation outcomes, European Association for the Study of Diabetes, 28th Workshop of the Artificial Insulin Delivery, Pancreas, and Islet Transplantation Study Group, Innsbruck Austria, Invited Speaker, Jan. 2009.
19. **Stehno-Bittel, L.**, Loganathan, R., Patel, P., Smirnova, I.V. Effects of moderate aerobic exercise on left ventricular hemodynamics in obese diabetic rats, 9th Annual Obesity Conference, Kansas City, MO, September, 2007.
20. Kluding, P., Searls, Y., Smirnova, I.V., **Stehno-Bittel, L.**, Metabolic Syndrome: evidence, education and effective intervention strategies, Multi-section presentation at Combined Sections Meeting (CSM) of the American Physical Therapy Association (APTA), San Diego, CA, February 2006.
21. Al-Jarrah, M., Novikova, L., Smirnova, I.V., Lau Y-S, **Stehno-Bittel, L.**, Treadmill exercise training induces angiogenesis and neuronal indicators in the chronic progressive mouse model of Parkinson's disease, Combined Sessions Meeting of the American Physical Therapy Association Annual Meeting, San Diego, CA, February, 2006.

22. **Stehno-Bittel, L.**, Diabetes-induced vascular disease – an update. Scientific Forum XV- International Congress of Cardiovascular Sciences, Rio de Janeiro, Brazil – invited speaker, 2006.
23. **Stehno-Bittel, L.**, Smirnova, I.V. (2006) Invited speakers. Recruitment and retention of international PhD students, Annual North American Consortium of Nursing and Allied Health [NACNAH] Conference: Strategic Summit on Academic Internationalization for the Health Professions, Kansas City, KS.
24. **Stehno-Bittel, L.**, Why are large vessels affected differently by diabetes? Scientific Forum XV- International Congress of Cardiovascular Sciences, December 8-10, 2005, Rio de Janeiro, Brazil – invited speaker, 2006
25. Fischer KJ, Novak EA, Smirnova, I.V., Reddy GK, Stehno-Bittel, L., The effect of diabetes and exercise on knee joint stiffness in the rat, 50th Annual Meeting of the Orthopedic Research Society, San Francisco, CA, March 7-10, 2004.
26. Smirnova, I.V., Foecking J, Searls, Y., Novikova, L., **Stehno-Bittel, L.**, Proteomic approach to study the beneficial effects of exercise on diabetic heart, Combined Sessions Meeting of the American Physical Therapy Association Annual Meeting, Nashville, TN, February 4-8, 2004
27. Smirnova, I.V., Kibiryeveva, N., Searls, Y., Wolfe, M., **Stehno-Bittel, L.**, Reversal of diabetes-induced myocardial fibrosis by exercise training, Combined Sections Meeting (CSM) of APTA, 2003.
28. Enwemeka, E.S., Reddy, G.K., **Stehno-Bittel, L.**, Laser photostimulation of collagenous tissues: Repair processes in patients and experimental animal models. North American Association of Laser Therapy, 2002.
29. G.K. Reddy, **Stehno-Bittel, L.**, Enwemeka, C.S., Evaluation of the efficacy of He-Ne and Ga-As laser photostimulation on the induction of wound closure, World Association of Laser Therapy, 2002.
30. Reddy, G.K., Gum, S., **Stehno-Bittel, L.**, Enwemeka, C.S., Combined effects of laser photostimulation and early mechanical stress on regenerating functionally loaded Achilles tendon. World Association Laser Therapy, 58, 2000.
31. Reddy, G.K., Childs, E., Ogles, A., Enwemeka, C.S., **Stehno-Bittel, L.**, The effects of laser stimulation on wound healing in diabetic rats. World Association Laser Therapy, 1998.
32. Gaydessa, E., Salazar, A., Reddy, G.K., Marsh, J., Kernling, L., Goerke, S., Smalley, J., Suzuki, S., Enwemeka, C.S., **Stehno-Bittel, L.**, Effects of laser stimulation on cell and bacterial growth in a cell culture wound model, World Association Laser Therapy, 1998.
33. Sturek, M., **Stehno-Bittel, L.**, Hu, Q., Underwood, F.B., Relationships among ion channels, intracellular free calcium and contraction in vascular smooth muscle. Proc. World Congress for Microcirc., 1991.

**Non-Peer Reviewed Scientific and Professional Presentations
(Abstracts not published)**

1. **Stehno-Bittel, L.** My simple brain. KU Celebration of Innovation Showcase, Lawrence, KS. 2015.
2. **Stehno-Bittel, L.** Leadership and Discovery, Women in Science and Entrepreneurship, Kansas City, MO, 2015.
3. Wang WF, Guo Y, Xu M, Huang H-H, Frontera J, Novikova L, **Stehno-Bittel L**, Zhu H. (2010) ER stress mediates b-cell demise in Ncb5or null diabetes mouse model, Endocrinology Symposium, Overland Park, KS
4. **Stehno-Bittel, L.** An understanding of fat physiology must guide clinical practice. (2009) Association of Schools of Allied Health Professions. 2009 Annual Conference, San Antonio, TX
5. Novikova, N, **Stehno-Bittel, L**, Artigues, A, Villar, MT, Williams, SJ, Huang, H-H, Kover, K, Smirnova, IV, (2009) Pancreatic islet transplantation to treat diabetes – defining molecular tools to select suitable islets, Bi-State Research Conference, Kansas City, MO
6. **Stehno-Bittel, L.,** (2009) The intricacies of fat, American Physical Therapy Association, Combined Sections Meeting, invited speaker, Las Vegas, NV.
7. **Stehno-Bittel, L.** , Sinacore, D.R., Marcus, R.L., Mueller, M.J. (2008) Fat, Muscle, and the Benefits of Exercise for People With Diabetes, American Physical Therapy Association, Podcast, <http://www.ptjournal.org/misc/podcasts.dtl>
8. Kuphal, K., Farmer, K., Brown, J., **Stehno-Bittel, L.**, Smith, P. (2007), Exercise reduces mechanical allodynia and hyperalgesia in the setting of neuropathic pain. BIRCWH/SCOR Annual meeting, Kansas City, KS.
9. Al-Jarrah, M., Novikova, L., Smirnova, I.V., Lau. Y-S., **Stehno-Bittel, L.,** (2006) Exercise training improves endurance and cardiorespiratory function in the chronic mouse model of Parkinson's disease (presented at the 5th Annual Kansas City Life Sciences Research Day, Kansas City Convention Center, Kansas City, MO
10. Loganathan, R., **Stehno-Bittel, L**, (2005) Hypothalamic sleep generator neurons sense glucose, Student Research Forum, KUMC, Kansas City, KS.
11. Smirnova, I.V., Loganathan, R., **Stehno-Bittel, L.,** Bilgen, M. (2005) Detection of abnormalities in the diabetic heart using MRI, KU Symposium on Biophysical Sciences, KU, Lawrence, KS.
12. Fischer KJ, Novak EA, Smirnova, I.V., Reddy GK, **Stehno-Bittel, L.,** (2004) The effect of diabetes and exercise on knee joint stiffness in the rat, 50th Annual Meeting of the Orthopedic Research Society, San Francisco, CA.
13. Smirnova, I.V., Loganathan, R., **Stehno-Bittel, L.,** Bilgen, M. (2004) Detection of abnormalities in the diabetic heart using MRI, XVIII World Congress of the International Society for Heart Research, Brisbane, Australia.
14. Fischer KJ, Novak EA, Smirnova, I.V., Reddy GK, **Stehno-Bittel, L.,** (2003) The effect of diabetes and exercise on knee joint stiffness in the rat, Summer Bioengineering Conference, Key Biscayne, FL.

15. Foecking J, Novikova, L., **Stehno-Bittel, L.**, Smirnova, I.V. (2003) Exercise training modulates TGF β 1 signaling in the diabetic heart, American Heart Association Scientific Conference on Molecular Mechanisms of Growth, Death and Regeneration in the Myocardium: Basic Biology and Insights into Ischemic Heart Disease and Heart Failure, Snowbird Conference Center, Salt Lake City, UT.
16. Smirnova, I.V., Foecking J, Searls, Y., Novikova, L., **Stehno-Bittel, L.** (2003) Proteomic approach to study the beneficial effects of exercise on diabetic heart, National Institute of Health Meeting on Proteomics in Diabetes, Natcher Conference Center, NIH, Bethesda, MD.
17. Smirnova, I.V., Foecking J, Searls, Y., Novikova, L., **Stehno-Bittel, L.** (2003) Proteomic approach to study the beneficial effects of exercise on diabetic heart, American Society for Biochemistry and Molecular Biology Meeting on Proteomic Solutions in Cellular and Developmental Biology and Medicine, Stowers Institute for Medical Research, Kansas City, MO.
18. Searls, Y., Loganathan, R., Smirnova, I.V., **Stehno-Bittel, L.** (2003) Ca²⁺ regulating proteins in vascular smooth muscle cells altered by diabetes, 2nd Annual Kansas City Life Sciences Research Day, University of Missouri, Kansas City, MO.
19. Burns, D.M, Smirnova, I.V., Searls, Y., **Stehno-Bittel, L.**, Kawase T (2003) Calcitonin gene-related peptide simultaneously increases intracellular calcium ion, and polarizes Em in osteogenic human MG63 cells, 2nd Annual Kansas City Life Sciences Research Day, University of Missouri, Kansas City, MO.
20. Smirnova, I.V., Novikova, L., **Stehno-Bittel, L.**, (2002) Diabetes induces upregulation of alpha-smooth muscle actin expression in myocardial tissue, KUMC Faculty Research Day, Kansas City, KS.
21. Smirnova, I.V., Kibiryeve, N., Searles Y, Wolfe M, **Stehno-Bittel, L.** (2001) Reversal of diabetes-induced myocardial fibrosis by exercise training, Kansas City Life Sciences Research Day, University of Missouri, Kansas City, MO.
22. Smirnova, I.V., Searls, Y., **Stehno-Bittel, L.**, Burns, D. (2001) Mobilization of calcium ion and membrane hyperpolarization induced by calcitonin gene-related peptide in human MG-63 osteosarcoma cells, Kansas City Life Sciences Research Day, University of Missouri, Kansas City, MO.
23. Reddy, G.K., **Stehno-Bittel, L.**, Enwemeka, C. (2001) Pathophysiology of bone fragility in experimental diabetes, Faculty Research Day, KUMC, Kansas City, KS.
24. Searls, Y., Burns, D., **Stehno-Bittel, L.** (2001) The effects of glucose on vascular smooth muscle cells calcium signaling, Faculty Research Day, KUMC, Kansas City, KS.
25. Reddy, G.K., **Stehno-Bittel, L.**, Enwemeka, C.S. (2000) Laser photostimulation promotes skin wound healing in experimental rat model of diabetes, World Assoc Laser Therapy Meeting, Kansas City, MO.

Grant Activity:

Stehno-Bittel, L. (PI)

“3D Human Tissue for Primary Diabetes Drug Screening”

Eli Lilly, Research Grant, 2010-2014.

Stehno-Bittel, L. (PI)

“Canine transplantation”

Likarda, Contract research, 2013-2015.

Stehno-Bittel, L (PI)

“Micro-molds for Reaggregation of Optimal Islets for Transplantation”

Institute for the Advancement of Medical Innovation, 2010-2013

Stehno-Bittel, L (PI)

“POG integration into Reaggregated Islets for Transplantation”

Institute for the Advancement of Medical Innovation, 2010-2011

Smirnova, IV, **Stehno-Bittel, L (Co-I)**

“Stimulating Insulin Secretion from Large Islets with HTS: New Drugs for Diabetes”

NIH, 2011-2012

Buch, S. (PI), Co-I: **Stehno-Bittel, L.**

“HIV Encephalitis and Cocaine Abuse: Mechanism of Synergy and Therapy”

NIH (R01), 2006-2011.

Smirnova, IV, **Stehno-Bittel, L (Co-I)**

“HTS to improve pancreatic islet function and viability”

Emilie Rosebud Diabetes Research Foundation, 2011-2012

Berkland, C. (PI), Co-I: **Stehno-Bittel, L.**

“Templated Islets for Enhancing Insulin Production”

Juvenile Diabetes Research Foundation, 2006-2007

Stehno-Bittel, L. (PI)

“Alternative Approaches to Islet Transplants”

Rosebud Diabetes Research Foundation, 2005-2007

Stehno-Bittel, L. (Sponsor/PI)

“Diabetes SMC Changes Reversed by Islet Transplants”

NIH/NHLBI (F31), 2004-2008

Lau, Y-S (PI), Co-I: **Stehno-Bittel, L**

“Impact of exercise on Parkinson’s disease therapy”

NIH/NIMH, (R01) 2003-2007

Buch, S. (PI), Co-I: **Stehno-Bittel, L.**

“Mechanism and Therapy of SHIV Encephalitis in Macaques”,

NIH/NIMH, (R21), 2003-2007

Stehno-Bittel, L. (PI)

“Functional and Biomechanical Testing of Permanent Vasodilators”

NIH/NIDDK (R41) 2004– 2005

Moore, W. (PI), Co-I: **Stehno-Bittel, L.**

“Islet transplantation for type 1 diabetes”

Hall Foundation, 2003-2005

Stehno-Bittel, L. (PI)

“Training for Scientists from the Former Soviet Union”
US Dept. of Commerce, 2001-2002

Tobah, Z. (PI), Co-I: **Stehno-Bittel, L.**

“Electrophysiology of Hearing Loss”
Hall Foundation, 2001-2003

Hall, T (PI), Co-I: **Stehno-Bittel, L.**

“Real-time palpation imaging for improved detection and discrimination of breast abnormalities”
US Department of Defense, 2000-2003

Stehno-Bittel, L. (PI)

“Compound testing of wound healing inhibition in diabetic rats”
Research Contract from Abbott Laboratories, 2001-2002

Stehno-Bittel, L. (PI)

“Two-photon scanning confocal microscope”
NIH, NCRR, 2000-2001

Stehno-Bittel, L. (PI), Co-I: Dunn, R.

“Calcium Regulates Nuclear Pore Structure/Function”
NIH, GMS (R01), 1999-2004

Brown, M. (PI), Co-I: **Stehno-Bittel, L.**

“Prehabilitation versus Rehabilitation for Reducing the Effect of Bedrest”
NIH (R01), 1998-2002

Timberlake, G. (PI), Co-I: **Stehno-Bittel, L.**

“Phototriggerable collagen-crosslinking compounds for wound closure”
Kansas Lions Sight Foundation, 1998-1999

Stehno-Bittel, L. (PI)

“The correlation between collagen biochemistry and biomechanical parameters in tendon”
KUMC, SAH Research Grant, 1996-1997

Stehno-Bittel, L. (PI)

“Inositol trisphosphate induced calcium waves and coronary artery smooth muscle cells proliferation”
American Heart Association, 1996-1999

Stehno-Bittel, L. (PI)

“Shared Instrument grant: Electrophysiology and Imaging Facility”
KUMC Research Institute, 1995-1996

Stehno-Bittel, L. (PI)

“Identifying the muscarinic receptor/G protein interactions”
NIH, NRSA, 1993-1995

Stehno-Bittel, L. (PI)

“The effects of exercise on the coronary arteries”

APTA, Research Foundation, 1982-1983

Other Scholarly Products:

Patents

Lisa Stehno-Bittel, S. Rawal, K Ramachandran (Inventors)

“Engineered islets, islet culture devices and methods of making and use”, K1262.10009US01, 2011

Brian Blagg, Rick Dobrowsky, **Lisa Stehno-Bittel** (Inventors)

“Compounds and therapeutic methods for improving or protecting a pancreas”, K1262.10010US01, 2011,

C. Berkland, **L. Stehno-Bittel**, T. Siahann (Inventors)

“Templated small islets and beta cells for diabetes treatment”, patent pending, 2006

L. Stehno-Bittel, C. Berkland, K. Ramachadran (Inventors)

“Micro-Molds for reaggregated cell clusters for transplantation”, CIP to parent patent, 2010

Continuing Education Workshops and Community Education Organized

Update on the GLP-1 drugs. **Stehno-Bittel, L.**, Endocrinology Grand Rounds, University of Kansas Medical Center, Kansas City, KS, 2012.

Differential diagnoses for the PT. **Stehno-Bittel, L.**, ISPI, Kansas City, MO, 2012.

A visceral response to exercise. **Stehno-Bittel, L.** Kansas City Diabetes Educators. Kansas City, MO, 2010.

The intricacies of fat”, **Stehno-Bittel, L.**, Combined Sections, American Physical Therapy Association Combined Sections Meeting, Las Vegas, NV, Feb, 2009

The evolution of fat and activity: going back to the basics, **Stehno-Bittel, L.**, Physical Therapy Department, KU Hospital, Sept. 2008

Differential diagnosis for physical therapists, **Stehno-Bittel, L.**, Mideast Conference of Physical Therapy Education, Ahman Jordan, May, 2007

“Metabolic syndrome and type 2 diabetes mellitus”, Kluding, P., Searls, Y., Smirnova, I.V., **Stehno-Bittel, L.** Kansas Physical Therapy Association, Fall Conference, Topeka, KS, October 2006

“Metabolic syndrome: evidence, education and effective intervention strategies”, Kluding, P., Searls, Y., Smirnova, I.V., **Stehno-Bittel, L.** Combined Sections Meeting of the APTA, San Diego, CA, 2006.

“Childhood obesity, diabetes, and exercise”, **Stehno-Bittel, L.**, KU Mini Medical School, Kansas City, KS, 2006

“Update on a cure to diabetes, including islet cell transplants”, **Stehno-Bittel, L.** Diabetes Freedom Foundation, SMART Diabetes Conference, Overland Park, KS, 2006

“Stroke rehabilitation when diabetes is present” **Stehno-Bittel, L.** 38th Annual Underwriters National Conference, (pre-conference educational workshop) Kansas City, MO, 2005

“Islet transplantation as a means to cure type 1 diabetes” Kansas Medical Education Foundation, Topeka, KS, 2004

“Emerging trends in diabetic care”, Smirnova, I.V., **Stehno-Bittel, L.** University of Kansas Medical Center, October 2002

“Cognitive deficits after stroke: Impact on rehabilitation” Duncan, P., Pohl, P., **Stehno-Bittel, L.**, McDowd, J. Physical Therapy 99: Meeting and Exposition of the American Physical Therapy Association, half day workshop, Washington DC. 1999.

“Microwave and shortwave diathermy”, **Stehno-Bittel, L.**, Continuing education course for rehabilitation medicine residents, Kansas City, KS 2005.

“Home exercises I will do”, **Stehno-Bittel, L.** American Stroke Foundation Programs, Kansas City, KS 2005.

“Update on Diabetes”, **Stehno-Bittel, L.** Department of Physical Therapy and Rehabilitation Science Continuing Education, , Kansas City, KS, 2002.

“A Review of Pharmacology for the Allied Health Care Professionals”, **Stehno-Bittel, L.** Area Health Education Center, Hoxie, KS, 2000.

“Update in wound care” **Stehno-Bittel, L.**, Sabus, C., Department of Physical Therapy and Rehabilitation Science Continuing Education, Kansas City, KS, 1999.

“Pharmacology for the Physical Therapist”, **Stehno-Bittel, L.**, Northwest Kansas Area Health Education Center, Belleville, KS 1998.

“Interdisciplinary Health Care in the Rural Community”, **Stehno-Bittel, L.**, Kansas Area Health Education Center, Atwood, KS, 1997.

“Screens for a Healthy Life”, **Stehno-Bittel, L.**, Kansas Adult Health Assessment/Education Project, Nicodemis, KS, 1997.

“Genetic Therapy: Its Effects on the Practice of Physical Therapy and Society”, **Stehno-Bittel, L.**, Department of Physical Therapy and Rehabilitation Science Continuing Education, Kansas City, KS, 1995.

Membership in Scientific/Professional Organizations

1. Member, American Physical Therapy Association, 1983 - present
2. Secretary, Women in Medicine and Science, Kansas City Chapter, 2013-2014.
3. Member, Education Section of the American Physical Therapy Association, 1999 - present
4. Member, American Diabetes Association, 1997- present
5. Member, American Stroke Foundation, 2000-present

Positions Held

American Physical Therapy Association/Kansas Physical Therapy Association

Secretary/Treasurer, RIPPT (Research Intensive Programs in Physical Therapy, APTA, 2013-2015).

Manuscript Reviewer, *Physical Therapy*, 2003-2014.

Manuscript Reviewer, Journal of Orthopedic and Sports Physical Therapy (journal of the Orthopedic Section of the APTA), 2004-20104

Manuscript Reviewer, Journal of Physical Therapy Education, (journal of the Education Section of the APTA), 2004-2014

Nominating Committee Member for the Academic Administrator's Special Interest Group within the American Physical Therapy Association, 2005- 2007.

Participant, Clinical Research Agenda National Workgroup, American Physical Therapy Association, 1999.

Research Committee Chair, Kansas Physical Therapy Association, 1999-2000.

Author of article in Kansas Physical Therapy Association publication, Trigger Points, "Study Determines Use of Guide by Clinicians", 1998.

Diabetes Associations

Diabetes Advisory Council, mandated by the Kansas State Department of Health and Environment to develop the state plan for diabetes, 2006- present.

National Advisory Committee, Diabetes Freedom Foundation, 2005-2008.

Co-Founder, Diabetes Research Interest Group of Kansas City, 2002 – present.

Scientific Director, Midwest Diabetes Coalition, 2006-present.

Other

North American Editor, *Physical Therapy Reviews*, 1998-2010.

Site reviewer for Department of Rehabilitation Science PhD Program, University of Buffalo, Buffalo, NY. Oct, 2007.

Advisory Board Member, Kansas City Kansas Community College Physical Therapy Assistant Program, 2000-2001.

Manuscript Reviewer for the following scientific journals:

American Journal of Physiology, 1995 – present

Circulation Research, 2002 - present

Physical Therapy, 2003-present

Laser Therapy, 1999 – present

Grant reviewer for the following organizations:

VA Study Section, Rehabilitation, 2013-present

Diabetes UK, 2011-present

NIH Study Section, Muscle Physiology and Exercise, ad hoc, 2010-present

NIH Study Section, Vascular Molecular and Cellular Biology, 2009-present
NIH Study Section, Clinical and Integrative Cardiovascular Science, 2008-2009
Barth Syndrome Foundation, 2008-present
NIH Study Section, ZRG1 CDF-4, Shared Instrumentation Grants, 2000-2006
KUMC Biomedical Research Training Program, 2003-present
University of Missouri Research Board, 2003-present
Ad hoc grant reviewer, NSF-NATO grants, 2002
Wellcome Trust, Collaborative Research Initiative Grant, 1995-1999
Ad hoc grant reviewer, National Research Council, 1997

Community Service

From academia to the market, Cosmopolitan Club, 2013.

E-mentor for high school students interested in careers in the health profession, 2004 – present.

Canine islet transplants, **Stehno-Bittel, L.** University of Missouri, School of Veterinary Medicine, Columbia, MO, 2013

Mentored high school students in summer positions in our laboratory giving them small projects in the lab that they could complete. The Diabetes Research Lab has had high school volunteer students and paid positions from 1998 to the present

.Kanslets: a cure for diabetes? **Stehno-Bittel, L.** Rotary Club, Kansas City, MO. 2011

Board Member, CHAMPS, 2010-present

Board Member, American Stroke Foundation, 2003 – 2007.

The evolution of fat and activity: going back to the basics, **Stehno-Bittel, L.**, Center on Aging, University of Kansas Medical Center, Nov. 2008

Meet the Mentor Program, mentor, 1997-2003.

Sponsored a group of 12 high school students to attend the Kansas City Area Life Sciences Scientific Conference, 2006.

Science Olympiad for high school and junior high students, volunteer worker, 1996-2000.

Lectured on the cardiovascular system to local high schools and middle schools, bringing a cow and pig heart to class to dissect. 1999-2006.

Services to the University/College/School on Committees/Councils/ Commissions University of Kansas (all campuses)

- University Honorary Degree Committee, 2011- present
- 2015 University Goals Taskforce, 2008-2010
 - Chair of the “Raising the Research Bar” subcommittee, 2008-present
- Graduate School Fellowships, Scholarships, and Student Affairs Committee, Chair, University of Graduate School, 2006 – present
- Dissertation Research Scholarship Committee, University of Kansas, Lawrence, 2005-present
- GTA for Diversity and Melik Fellowship Committee, Kansas Lawrence, 2006-present

- Residency Appeals Committee, University of Kansas Lawrence, 2004-2006
- Bioengineering Search Committee, Dept. of Mechanical Engineering, University of Kansas Lawrence, 2004-2005

University of Kansas Medical Center

- Search Committee, Center on Aging, Director of Human Performance Lab, 2011
- KUMC Faculty Concerns Committee, Member, University of Kansas Medical Center, 2006-2008
- Space Committee, University of Kansas Medical Center, 2002-2007
- Search Committee member, Director of Research in the Center on Aging, University of Kansas Medical Center 2001-2003.
- Chair, Institutional Animal Care and Use Committee, University of Kansas Medical Center, 1996-2001. I oversaw the protocol committee during the re-accreditation of the facility by two different governmental agencies.
- Review Committee, Director of the Laboratory Animal Resources Facility, University of Kansas Medical Center, 2000.
- Comprehensive Compliance Program, University of Kansas Medical Center, 2000-2001.
- Graduate Council, University of Kansas Medical Center, 1996-1998, 2000-2003.
- Graduate Travel Committee, University of Kansas Medical Center, 1997-1999.
- Ad Hoc Committee on Animal Space Issues, University of Kansas Medical Center, 1998

School of Allied Health

- School of Allied Health Resources and Facilities Planning, University of Kansas Medical Center, 2004-2006
- Administrator's Council, 2005-present
- School of Allied Health Student Affairs Committee, University of Kansas Medical Center, 1996-1999.
- School of Allied Health Action Group, University of Kansas Medical Center, 1996.

Departmental Committees and Administrative Responsibilities

- Admissions Committee, Department of Physical Therapy and Rehabilitation Sciences, 1998-1999.
- Post-professional Education Committee, Chair, Department of Physical Therapy and Rehabilitation Science, 1998-1999
- Journal Club Director, Department of Physical Therapy and Rehabilitation Science, 1997-1998.
- Curriculum Committee, Department of Physical Therapy and Rehabilitation Science, 1996-1997.
- Research Committee, Chair, Department of Physical Therapy and Rehabilitation Science, 1996-1997.

Honors and Awards

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| 2015 | 50 Kansans You Should Know, Ingram's Magazine |
| 2015 | Likarda chosen as one of the top 25 small businesses in Kansas City |
| 2014 | Super Professor 2014, Faculty Row, nominated by DPT students |
| 2013 | Jim Baxendale Entrepreneur Award, Kansas |
| 2012 | Likarda chosen as one of the top 50 Most Promising Start-Ups in the World, Global Entrepreneurship Week. |
| 2008 | Exemplary Course Award, ANGEL Web Course Conference, PT 855: Pharmacology for Physical Therapists, Lisa Stehno-Bittel , David Antonacci, Stephanie Gerald |
| 2000 | Outstanding Teaching Award, Department of Physical Therapy and Rehabilitation Science, KUMC |
| 1999 | Outstanding Faculty Research Award, University of Kansas Medical Center, Kansas |

- City, KS
- 1998 Outstanding Teacher Award, Physical Therapy Education Department, University of Kansas Medical Center, Kansas City, KS.
- 1993 Travel Award, International Union of Pure and Applied Biophysics, Budapest, Hungary.
- 1991 Young Investigator Award, (Federation of American Societies for Experimental Biology (FASEB))

Current Teaching Responsibilities

DPT entry-level program

Semester 1	Medical Imaging	Coordinator
Semester 7	Administration and Leadership	Coordinator

PhD program

Grant Writing	Coordinator
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Mentoring

Served as the research mentor and committee chair for the following PhD students

- 2012–present Sonia Rawal, Department of Physical Therapy and Rehabilitation Science
- 2013-present Stephen Harrington, Department of Bioengineering, University of Kansas
- 2009-2013 Karthik Ramachandran, Department of Bioengineering, University of Kansas. Currently Co-Founder and Director of Business Development for Likarda, LLC.
- 2007-2012 Floyd Huang, Physical Therapy and Rehabilitation Science, KUMC. Currently Assistant Professor, Texas Tech University.
- 2005- 2009 Kendra Gagnon, Physical Therapy and Rehabilitation Science, KUMC, Currently Associate Professor in Physical Therapy, Rockhurst University, Kansas City, MO
- 2004-2008 Neena Sharma, Physical Therapy and Rehabilitation Science, KUMC, Research Assistant Professor in Physical Therapy and Rehabilitation Science (served as co-chair), Kansas City, KS. Currently Assistant Professor, University of Kansas Medical Center.
- 2001-2007 Raj Loganathan, Physical Therapy and Rehabilitation Science, KUMC, Currently post-doctoral fellow, Johns Hopkins Hospital.
- 2002-2006 Muhammed Al-Jarrah, Physical Therapy and Rehabilitation Science, KUMC, Currently Associate Professor, Department of Physical Therapy, Jordanian University of Science and Technology, Irbid, Jordan 2009-2013
- 1998-2002 Annie Lee, Department of Chemistry, KU, Currently Chair and Tenured Associate Professor, Rockhurst University, Kansas City, MO
- 1998-2003 Yvonne Searls, Anatomy and Cell Biology, KUMC, Currently Clinical Associate Professor in Physical Therapy and Rehabilitation Science, Kansas City, KS

2007-present Personally fund an annual scholarship to the Department's top PhD students; the Bittel Scholarship sponsored by Douglas and Lisa Bittel.

Has served as research mentor for over 60 graduate students in physical therapy (MS and DPT degrees).

Formally mentored the following faculty

- 2013-present Dr. Norbert Belz – Chair, Health Information Management, KUMC
- 2013-present Dr. Marcio Santos, Assistant Professor, Physical Therapy and Rehabilitation Science, KUMC

- 2009-present Dr. Lisa VanHoose, Assistant Professor, Physical Therapy and Rehabilitation Science

Less formal mentoring of junior faculty in our department.

Mentoring of high school students.

1. Personally fund an annual scholarship to graduating high school students interested in STEM fields. 2011-present. The Bittel Family Scholarship sponsored by Douglas and Lisa Bittel
2. Personally fund 3 annual scholarships to graduating high school students dedicated to vocational training. 2014-present. The JAG scholarship, co-sponsored by Douglas and Lisa Bittel
3. Personally sponsored a group of 12 high school students to attend the Kansas City Area Life Sciences Scientific Conference, 2006.
4. Mentored high school students in summer positions in our laboratory giving them small projects in the lab that they could complete. The Diabetes Research Lab has had high school volunteer students and paid positions from 1998 -present.
5. E-mentor for high school students interested in careers in the health profession, 2004 – present.
6. Lectured on the cardiovascular system to local high schools and middle schools, bringing a cow and pig heart to class to dissect. 1999-2006.
7. Meet the Mentor Program, mentor, 1997-2003.
8. Science Olympiad for high school and junior high students, volunteer worker, 1996-2000.
9. Science Olympiad, organized the Bioprocessing stations for the Regional Competition, 1998.
10. Expanding Your Horizons in Science and Mathematics Conference. Hands-on conference for high school females. I ran a session on the interaction of physics and physical therapy, 1997.