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Director, Metabolic Nutrition and Exercise Research ([MiNER](#)) Laboratory  
Associate Professor (Tenured), Department of Kinesiology, University of Texas at El Paso  
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[Research Gate Profile](#): h-index 20 (2020) | Research Gate RG Score: 35.04

[Google Scholar Profile](#): h-index 20 (2020)

## **EDUCATION**

2006	PhD – Bioenergetics, East Carolina University, Greenville, NC
2001	MAED – Exercise Science, University of Nebraska at Kearney, Kearney, NE
1997	M.Sc. – Physiology, University of Calcutta, Calcutta, India
1995	B.Sc. – Physiology, University of Calcutta, Berhampore, India

## **PROFESSIONAL EXPERIENCE**

2018 – Present	Associate Professor; Department of Kinesiology, UTEP, El Paso, TX
2012 – Present	Director; Metabolic Nutrition and Exercise Research (MiNER) Laboratory, The University of Texas at El Paso (UTEP), El Paso, TX
2019 (Summer)	Interim Chair; Department of Kinesiology, The University of Texas at El Paso (UTEP), El Paso, TX
2018 (Summer)	Interim Chair; Department of Kinesiology, The University of Texas at El Paso (UTEP), El Paso, TX
2012 – Present	Adjunct Assistant Professor; Border Biomedical Research Center, El Paso, TX
2012 – Present	Adjunct Assistant Professor; Pennington Biomedical Research Center (PBRC), Baton Rouge, LA.
2012 – 2018	Assistant Professor (Tenure-track); Department of Kinesiology, UTEP, El Paso, TX
2009 – 2012	Instructor; Clinical Research; PBRC, Baton Rouge, LA.
2007 – 2009	Postdoctoral Researcher; Endocrinology; PBRC; Baton Rouge, LA
2002 – 2006	Graduate Research/Teaching Assistant; Department of Exercise and Sports Sciences; East Carolina University, Greenville, NC;
1999 – 2001	Graduate Assistant; Department of Health, Physical Ed, Recreation, and Leisure Studies; University of Nebraska at Kearney, Kearney, NE
1997 – 1999	Research Fellow; Indian Institute of Technology, Bombay, India
1992 – 1997	Project Assistant; University of Calcutta, Calcutta, India

## **HONORS AND AWARDS:**

2019	Mentoring Award – for excellence in student research mentoring, University of Texas at El Paso
2019	Recipient of travel award – American College of Sports Medicine (ACSM) annual meeting (NIH BUILDing Scholars) (\$2000)
2018	College Marshal, College of Health Sciences, University of Texas at El Paso
2018	Recipient of travel award – American College of Sports Medicine (ACSM) annual meeting (NIH BUILDing Scholars) (\$2000)
2018	5- Year Service Award, University of Texas at El Paso
2017	Mentoring Award – for excellence in student research mentoring, University of Texas at El Paso

2017	Recipient of travel award – American Diabetes Association (ADA) annual meeting (NIH BUILDing Scholars) (\$2000)
2013	Most Distinguished Faculty Member Award – Center for Excellence in Teaching and Learning, UTEP
2008	PAT Simons Travel Grant Recipient; The Obesity Society (TOS)
2004	Graduate Students Nutrition Research Fellowship, East Carolina University, NC
1999	Reichenbach Scholarship; University of Nebraska at Kearney, NE
1995	Topped the honors program (B.Sc. in Physiology), Krishnath College, University of Calcutta, India

#### **HONORS AND AWARDS RELEVANT TO MENTORED STUDENTS:**

2020	Winner of Steven M. Horvath Travel Award – American College of Sports Medicine (Student: Michael Sanchez)
2019	Winner of Student Research Development Award – American College of Sports Medicine (Texas Chapter) (Student: Michael Sanchez)
2019	Winner of Martin Frank Diversity Travel Awards – Experimental Biology (Student: Cesar Meza)
2018	Outstanding Presentation Award at Annual Biomedical Research Conference for Minority Students (ABRCMS) (Student: Zoé Covernali)
2018	Winner of 1 <sup>st</sup> Position in Graduate Research Presentation at Texas ACSM (Student: Manuel Amador)
2017	Winner of 2 <sup>nd</sup> Position in Graduate Research Presentation at Texas ACSM (Student: Cesar Meza)
2017	Winner of 3 <sup>rd</sup> Position in Graduate Research Presentation at Texas ACSM (Student: Manuel Amador)

#### **PROFESSIONAL ORGANIZATION MEMBERSHIPS**

- American College of Sports Medicine (ACSM)
- American Diabetes Association (ADA)
- American Physiological Society (APS)
- El Paso Diabetes Association – Advisory Board Member
- MitoPhysiology
- Sigma Xi
- The Obesity Society (TOS)

#### **GRANTS:**

##### **Principal Investigator:**

2020-2021:	Applied and Translational Research Fund, College of Health Sciences; Health and Healthcare Utilization of Hispanic/Latino Subsidized Housing Residents in the Border Region. (Role: Co-PI; PI: Jung). \$7,500
2019-2020:	Paso del Norte Health Foundation; Qualitative Diabetes Assessment of Patient Education in the County of El Paso TX. (Role: Co-PI; PI: Concha). \$8,900
2019-2020:	Applied and Translational Research Fund, College of Health Sciences; Neuromuscular Electrical Stimulation (E-Stim) – A Novel Strategy to Improve Insulin Sensitivity. \$7,500
2019-2020:	Paso del Norte Health Foundation; Diabetes Assessment in the County of El

- Paso, Texas. \$20,127
- 2016-2017: National Institute of Health (NIH) – Minority Health and Health Disparities Research: In-vitro electrical pulse stimulation as exercise mimetic for human myotubes. \$20,000
- 2014-2015: International Collaborative Research Grant Scheme Victoria University, Melbourne, Australia. \$30,000
- 2012-2013: University Research Institute (URI) program; University of Texas at El Paso; Role of PAT Proteins on Lipid Droplet Mobilization During Exercise Performance \$5,000
- 2007-2008: Pilot and Feasibility Grant from Health & Performance Enhancement and Clinical Obesity Divisions. Pennington Biomedical Research Center. \$25,000

**Co-Investigator:**

- 2014-2015: Grand Challenges Special Solicitation, University of Texas at El Paso High-Throughput 3D-Visualization of the Mammalian Central and Peripheral Nervous Systems. \$20,000
- 2009-2010: Effect of dietary fat when eaten with fructose versus glucose on insulin resistance and liver fat (PI- George Bray, MD)
- 2008-2009: New Investigator Award; The Obesity Society (PI- Jose Galgani, PhD) Metabolic flexibility to lipid during moderate-intensity exercise in humans (FLEX)
- 2007-2009: USDA special grant (PI- George Bray, MD) Mechanisms of the effect of physical activity on the adaptation to a high fat diet (USDA Exercise)
- 2006-2009: Validation of a paradigm for the evaluation of compounds and drugs that activate mitochondrial biogenesis in skeletal muscle (ACTIV)

**Mentored student grants/funding/assistantship:**

- 2019 Role: Faculty mentor (Student: Dante Nacim)  
Funding Agency PERSIST Research Program (assistantship)  
Title: *Neuromuscular Electrical Stimulation: A novel strategy for improving insulin sensitivity in an overweight/obese population.* \$2000
- 2019 Role: Faculty mentor (Student: Dante Nacim)  
Funding Agency Summer Undergraduate Research Program Assistantship (SURPASS) (assistantship)  
Title: *Neuromuscular Electrical Stimulation: A novel strategy for improving insulin sensitivity in an overweight/obese population.* \$2000
- 2019-2020 Role: Faculty mentor (Student: Michael Sanchez)  
Funding Agency: American College of Sports Medicine (Texas Chapter) Student Research Development Award  
Title: *Novel Treatment Intervention.* \$1000
- 2019-2020 Role: Principal Investigator (Student: Michelle Galvan)  
Funding Agency: UTEP Dodson Funds  
Title: *Does Neuromuscular Electrical Stimulation improve insulin sensitivity, metabolic health and muscle mass when combined with Resistance Training?* \$3,000
- 2019-2020 Role: Faculty mentor (Student: Jasmin Jenkins)

- Funding Agency: Sigma Xi Committee on Grants-in-Aid of Research  
 Title: *A novel treatment for improving metabolism in an overweight/obese population. (Funding returned after student discontinuation)* \$500
- 2018-2019 Role: Faculty mentor (Student: Mario Garcia)  
 Funding Agency: Mentored Experience in Research, Inquiry, and Creativity for Undergraduate Scholars (MERITUS) (assistantship)  
 Title: *Effects of a Family History of Type 2 Diabetes on miRNA-155 and miRNA-133.* \$2000
- 2017-2018: Role: Principal Investigator (Student: Jasmin Jenkins)  
 UTEP Dodson Funds  
 Title: *Neuromuscular Electrical Stimulation: A Novel treatment for improving fat oxidation and insulin sensitivity.* \$2,500
- 2017-2018: Role: Principal Investigator (Student: Cesar Meza)  
 Funding Agency: UTEP Dodson Funds  
 Title: *Do Myokines Drive Impairments in Insulin Sensitivity with a Family history of Type 2 Diabetes?* \$3,000
- 2018 Role: Faculty mentor (Student: Mario Garcia)  
 Funding Agency Summer Undergraduate Research Program Assistantship (SURPASS) (assistantship)  
 Title: *Effects of Electrical Pulse Stimulation on Perilipin 3 in Primary Human Myotubes.* \$2000
- 2017-2018 Role: Faculty mentor (Student: Mario Garcia)  
 Funding Agency: Mentored Experience in Research, Inquiry, and Creativity for Undergraduate Scholars (MERITUS) (assistantship)  
 Title: *Effects of Electrical Pulse Stimulation (EPS) on Skeletal Muscle Lipid and Mitochondria in Human Primary Myotubes.* \$2000
- 2017 Role: Faculty mentor (Student: Catalina De La Pena)  
 Funding Agency Summer Undergraduate Research Program Assistantship (SURPASS) (assistantship)  
 Title: *The Effects of a High Fat Diet on Lipid, Mitochondria, and PLIN5 Contents in Humans.* \$2000
- 2016 Role: Faculty mentor (Student: Cesar Meza)  
 Funding Agency Summer Undergraduate Research Program Assistantship (SURPASS) (assistantship)  
 Title: *The Effects of a High Fat Diet on Lipid, Mitochondria, and PLIN5 Contents in Humans.* \$2000
- 2015 Role: Faculty mentor (Student: Luisa Valverde)  
 Funding Agency Summer Undergraduate Research Program Assistantship (SURPASS) (assistantship)  
 Title: *Effects of High Fat diet on skeletal muscle morphology, substrate level, and mitochondrial content.* \$2000
- 2014 Role: Faculty mentor (Student: Elizabeth Marquez)  
 Funding Agency Summer Undergraduate Research Program Assistantship (SURPASS) (assistantship)  
 Title: *The Effects of stress on skeletal muscle glycogen and mitochondrial content.* \$2000
- 2013-2014 Role: Faculty mentor (Student: Ricardo Rodriguez)

Funding Agency Campus Office of Undergraduate Research Initiatives  
(COURI) Research Award (assistantship)

Title: *Effect of acute and chronic stress on skeletal muscle metabolism* \$4700

### **MANUSCRIPT REVIEWER**

- American Journal of Physiology – Endocrinology and Metabolism
- Applied Physiology Nutrition and Metabolism
- Biochemie
- Biomedicine and Pharmacotherapy
- Diabetes
- European Journal of Endocrinology
- European Journal of Nutrition
- Experimental Physiology
- Frontiers in Endocrinology
- International Journal of Obesity
- Journal of Applied Physiology
- Journal of Diabetes Mellitus
- Journal of Physiology and Biochemistry
- Journal of Sport and Health Science
- Journal of Strength and Conditioning Research
- Obesity
- PLoS ONE

### **GRANT REVIEWER**

- National Sciences and Engineering Research Council of Canada (NSERC; 2015-2018)

### **EDITOR**

- Associate Editor: Biochimie Journal
- Guest editor for Obesity (Special issue – Peripheral Regulator of Obesity) (2017-2019)
  - Frontiers in Endocrinology
  - Frontiers in Public Health
  - Frontiers in Nutrition

### **PUBLICATIONS:**

1. Amador M, Meza CA, McAinch AJ, King GA, Covington JD, **Bajpeyi S**. Exercise-Induced Improvements in Insulin Sensitivity Are Not Attenuated by a Family History of Type 2 Diabetes. *Front Endocrinol (Lausanne)*. 2020;11:120. Published 2020 Mar 13. doi:10.3389/fendo.2020.00120; Impact Factor 2018 = 3.634; SCImago – ENDOCRINOLOGY DIABETES AND METABOLISM 47/58 Quartile 1
2. McAinch, A.J., Hryciw, D.H., **Bajpeyi, S**. Editorial: Peripheral Regulators of Obesity; *Front Endocrinol (Lausanne)*. 2019 Jun 4;10:357. doi: 10.3389/fendo.2019.00357. *eCollection* 2019. Impact Factor 2018 = 3.519; SCImago – ENDOCRINOLOGY DIABETES AND METABOLISM 27/58 Quartile 1
3. Gnaiger, E., Aasander, Frostner, E., Abdul Karim, N.A., Acuna-Castroviejo, D., Adiele, R.C., **Bajpeyi, S.**, ....Zvejniece, L. Mitochondrial respiratory states and rates. *MitoFit* Preprint Archives. doi:10.26124/mitofit:190001.
4. Fernández-Verdejo, R., **Bajpeyi, S.**, Ravussin, E., Galgani, J.E. Metabolic Flexibility to Lipid Availability During Exercise is Enhanced in Individuals with High Insulin Sensitivity; *A Am J Physiol Endocrinol Metab*. 2018 Oct 1;315(4):E715-E722. doi: 10.1152/ajpendo.00126.2018. *Epub* 2018 Jun 5. Impact Factor 2013 = 4.266; SCImago – PHYSIOLOGY 19/44 Quartile 1
5. Toledo, F.G.S., Johannsen, D.L., Covington, J.D., **Bajpeyi, S.**, Goodpaster, B.H., Conley, K.E., Ravussin, E. Impact of prolonged overfeeding on skeletal muscle mitochondria in

- healthy individuals; *Diabetologia*. 2018 Feb;61(2):466-475. doi: 10.1007/s00125-017-4496-8. Epub 2017 Nov 17. Impact Factor 2016 = 6.080; SCImago – ENDOCRINOLOGY 9/55 Quartile 1
6. Covington, J.D., Johannsen, D.L., Coen, P.M., Burk, D.H., Obanda, D.N., Ebenezer, P.J., Tam, C.S., Goodpaster, B.H., Ravussin, E., **Bajpeyi, S.** Intramyocellular Lipid Droplet Size Rather Than Total Lipid Content Is Related to Insulin Sensitivity After 8-Weeks of Overfeeding; *Obesity* (Silver Spring). 2017 Dec;25(12):2079-2087. doi: 10.1002/oby.21980. Epub 2017 Oct 25. Impact Factor 2013 = 4.181; SCImago – ENDOCRINOLOGY 21/55 Quartile 1
  7. **Bajpeyi S**, Covington JD, Taylor EM, Stewart LK, Galgani JE, Henagan TM., Skeletal Muscle PGC1 $\alpha$  -1 Nucleosome Position and -260nt DNA Methylation Determine Exercise Response and Prevent Ectopic Lipid Accumulation in Men. *Endocrinology*. 2017 Apr 10. doi: 10.1210/en.2017-00051. 5 years Impact Factor = 5.252; SCImago – ENDOCRINOLOGY 10/126 Quartile 1
  8. **Bajpeyi, S.**, Pasarica, M., Conley, K.E., Newcomer, B.R., Jubrias, S.A., Gamboa, C., Murray, K., Sereda, O., Sparks, L.M., Smith, S.R. Twelve weeks of pioglitazone treatment improves insulin sensitivity, lipid utilization and metabolic flexibility – but not maximal ATP synthesis rates; *Metabolism*; Impact Factor 2013 = 4.375; SCImago – FOOD SCIENCE 21/53 Quartile 1
  9. Covington, J. D., **Bajpeyi, S.**; The Sirtuins: Markers of Metabolic Health. *Mol Nutr Food Res*. 2016 Jan;60(1):79-91. doi: 10.1002/mnfr.201500340. (Invited Review) Impact Factor 2013 = 4.909; SCImago – FOOD SCIENCE 8/61 Quartile 1
  10. Covington, J.D., Tam, C.S., **Bajpeyi, S.**, Galgani, J.E., Noland, R.C., Smith, S.R., Redman, L.M., Ravussin, E. Myokine Expression in Muscle and Myotubes in Response to Exercise Stimulation. *Med Sci Sports Exerc*. 2016 Mar;48(3):384-90. doi: 10.1249/MSS.0000000000000787, Impact Factor 2013 = 5.318; SCImago – SPORTS SCIENCE 8/32 Quartile 1
  11. Covington, J. D., Noland, R.C., Hebert, C., Masinter, B.S., Smith, S.R., Rustan, A.C., Ravussin, E., **Bajpeyi, S.**; Perilipin 3 Differentially Regulates Skeletal Muscle Lipid Oxidation in Active, Sedentary and Type 2 Diabetic Males. *J Clin Endocrinol Metab*. 2015 Oct;100(10):3683-92. doi: 10.1210/JC.2014-4125 Impact Factor 2014 = 6.209; SCImago – SPORTS SCIENCE 6/33 Quartile 1
  12. Covington, J. D., Myrland, C.K, Rustan, A.C., Ravussin, E., Smith, S.R.; **Bajpeyi, S.** Effect of Serial Cell Passaging in the Retention of Fiber Type and Mitochondrial Content in Primary Human Myotubes; *Obesity* (Silver Spring). 2015 Dec;23(12):2414-20. doi: 10.1002/oby.21192 Impact Factor 2013 = 4.181; SCImago – ENDOCRINOLOGY 19/54 Quartile 1
  13. Covington, J. D., **Bajpeyi, S.**, Moro, C., Tchoukalova, Y. D., Ebenezer, P. J., Burk, D. H., Redman, L. M. Potential effects of aerobic exercise on the expression of perilipin 3 in the adipose tissue of women with polycystic ovary syndrome: a pilot study. *European Journal of Endocrinology*, 172(1), 47-58 (2015); Impact Factor 2013 = 4.038; SCImago – ENDOCRINOLOGY 24/30 Quartile 1
  14. Tam, C. S., Covington, J. D., **Bajpeyi, S.**, Tchoukalova, Y., Burk, D., Johannsen, D. L., Ravussin, E. Weight gain reveals dramatic increases in skeletal muscle extracellular matrix remodeling. *The Journal of Clinical Endocrinology & Metabolism*, 99(5), 1749-1757 (2014); Impact Factor 2013 = 6.130; SCImago – ENDOCRINOLOGY 3/30 Quartile 1

15. Covington, J. D., Galgani, J. E., Moro, C., LaGrange, J. M., Zhang, Z., Rustan, A. C, **Bajpeyi, S.** Skeletal Muscle Perilipin 3 and Coatomer Proteins Are Increased following Exercise and Are Associated with Fat Oxidation. *PloS one*, 9(3), e91675 (2014); Impact Factor 2013 = 3.534; SCImago – BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY 37/51 Quartile 1
16. Johannsen, D. L., Tchoukalova, Y., Tam, C. S., Covington, J. D., Xie, W., Schwarz, J. M, **Bajpeyi, S.**, Ravussin, E. Effect of 8 weeks of overfeeding on ectopic fat deposition and insulin sensitivity: testing the adipose tissue expandability hypothesis. *Diabetes care*, 37(10), 2789-2797 (2014); Impact Factor 2013 = 9.051; SCImago – ENDOCRINOLOGY 4/54 Quartile 1
17. Champagne CM, Han H, **Bajpeyi S**, Rood J, Johnson WD, Lammi-Keefe CJ, Flatt JP, Bray GA. Day-to-Day variation in food intake and energy expenditure in healthy women: The dietitian II study. *J Acad Nutr Diet*, 2013 Sep 7. doi:pii: S2212-2672(13)01119-2. 10.1016/j.jand.2013.07.001. [Epub ahead of print]; Impact Factor; 2013 = 4.006; SCImago – NUTRITION AND DIETETICS 14/29 Quartile 1
18. **Bajpeyi S**, Myrland CK, Covington JD, Obanda D, Cefalu WT, Smith SR, Rustan AC, Ravussin E. Lipid in skeletal muscle myotubes is associated to the donors' insulin sensitivity and phsysical activity phenotypes. *Obesity (Silver Spring)*, 2013 Jul 1. doi:10.1002/oby.20556; Impact Factor; 2013 = 4.181; SCImago – NUTRITION AND DIETETICS 7/29 Quartile 1
19. Aas V, Bakke SS, Feng YZ, Kase ET, Jensen J, **Bajpeyi S**, Thoresen GH, Rustan AC. Are Cultured Myotubes Far From Home? *Cell and Tissue Research*, Dec;354(3):671-82 (2013); Impact Factor; 2013 = 3.68; SCImago – CELL BIOLOGY 42/62 Quartile 2
20. Conley KE, Amara CE, **Bajpeyi S**, Costford SR, Murray K, Jubrias SA, Arakaki L, Marcinek DJ, Smith SR. Higher Mitochondrial Respiration and Uncoupling with Reduced Electron Transport Chain Content in Vivo in Muscle of Sedentary Versus Active Subjects. *Journal of Clinical Endocrinology and Metabolis*, Jan;98(1):129-36 (2012); Impact Factor 2013 = 6.130; SCImago – ENDOCRINOLOGY 3/30 Quartile 1
21. **Bajpeyi S**, Reed MA, Molskness S, Newton C, Tanner CJ, McCartney JS, Houmard JA. Effect of Short-Term Exercise Training on Intramyocellular Lipid Content. *Applied Physiology Nutrition and Metabolism*, 37(5):822-8 (2012); Impact Factor, 2013 = 2.789; SCImago – NUTRITION AND DIETETICS 6/20 Quartile 2
22. Muoio DM, Noland RC, Kovalik J, Seiler SE, Davie MN, DeBalsi KL, Ilkayeva OR, Stevens RD, Kheterpal I, Zhang J, Covington JD, **Bajpeyi S**, Ravussin E, Kraus W, Koves TR, Mynatt RL. Muscle-specific Deletion of Carnitine Acetyltransferase Compromises Glucose Tolerance and Metabolic Flexibility. *Cell Metabolism*, 15(5):764-77 (2012); Impact Factor, 2013 = 17.897; SCImago – PHYSIOLOGY 3/44 Quartile 1
23. Johannsen DL, Conley KE, **Bajpeyi S**, Punyanitya M, Gallagher D, Zhang Z, Covington JD, Smith SR, Ravussin E. Ectopic Lipid Accumulation and Reduced Glucose Tolerance in Elderly Adults are Accompanied by Altered Skeletal Muscle Mitochondrial Activity. *J Clin Endocrinol Metab*, 97(1):242-50 (2012); Impact Factor 2013 = 6.130; SCImago – ENDOCRINOLOGY 3/30 Quartile 1
24. Sparks LM, Moro C, Ukropcova B, **Bajpeyi S**, Civitarese AE, Hulver MW, Thoresen H, Rustan AC, Smith SR. Remodeling lipid metabolism and improving insulin responsiveness in human primary myotubes. *PLoS One*, 6(7):e21068 (2011); Impact Factor 2013 = 3.534; SCImago – BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY 37/51 Quartile 1

25. Galgani JE, Johannsen NM, **Bajpeyi S**, Costford SR, Zhang Z, Gupta AK, Ravussin E. Role of skeletal muscle mitochondrial density on exercise-stimulated lipid oxidation. *Obesity* (Silver Spring), 20(7):1387-93 (2011); Impact Factor; 2013 = 4.181; SCImago – NUTRITION AND DIETETICS 7/29 Quartile 1
26. **Bajpeyi S**, Pasarica M, Moro C, Conley K, Jubrias S, Sereda O, Burk DH, Zhang Z, Gupta A, Kjems L, Smith SR. Skeletal Muscle Mitochondrial Capacity and Insulin Resistance in Type 2 Diabetes. *J Clin Endocrinol Metab*, 96(4):1160-8 (2011); Impact Factor 2013 = 6.130; SCImago – ENDOCRINOLOGY 3/30 Quartile 1
27. Anunciado-Koza RP, Zhang J, Ukropec J, **Bajpeyi S**, Koza RA, Rogers RC, Cefalu WT, Mynatt RL, Kozak LP. Inactivation of the mitochondrial carrier SLC25A25 (ATP-MG2+/Pi transporter) reduces physical endurance and metabolic efficiency in mice. *J Biol Chem*, 286(13):11659-71 (2011); Impact Factor 2013 = 4.600; SCImago – BIOCHEMISTRY 19/98 Quartile 1
28. Krishnapuram R, Dhurandhar EJ, Dubuisson O, Kirk-Ballard H, **Bajpeyi S**, Butte NF, Sothorn MS, Larsen-Meyer E, Chalew S, Bennett B, Gupta AK, Greenway FL, Johnson WD, Brashear M, Reinhart G, Rankinen T, Bouchard C, Cefalu WT, Ye J, Javier R, Zuberi A, Dhurandhar NV: A Template to Improve Glycemic Control without Reducing Adiposity or Dietary Fat. *Am J Physiol Endocrinol Metab*, 300(5):E779-89 (2011); Impact Factor 2013 = 4.266; SCImago – ENDOCRINOLOGY 14/54 Quartile 1
29. Costford SR, **Bajpeyi S**, Pasarica M, Albarado DC, Thomas SC, Xie H, Church TS, Jubrias SA, Conley KE, Smith SR. Skeletal muscle NAMPT is induced by exercise in humans. *Am J Physiol Endocrinol Metab*, 298:E117-126 (2010); Impact Factor 2013 = 4.266; SCImago – ENDOCRINOLOGY 14/54 Quartile 1
30. Moro C, Galgani JE, Luu L, Pasarica M, Mairal A, **Bajpeyi S**, Schmitz G, Langin D, Liebisch G, Smith SR. Influence of gender, obesity, and muscle lipase activity on intramyocellular lipids in sedentary individuals. *J Clin Endocrinol Metab*, 94:3440-3447 (2009); Impact Factor 2013 = 6.130; SCImago – ENDOCRINOLOGY 3/30 Quartile 1
31. **Bajpeyi S**, Tanner CJ, Slentz CA, Duscha BD, McCartney JS, Hickner RC, Kraus WE, Houmard JA. Effect of exercise intensity and volume on persistence of insulin sensitivity during training cessation. *J Appl Physiol*, 106:1079-1085 (2009); Impact Factor 2013 = 3.434; SCImago – PHYSIOLOGY 40/44 Quartile 1
32. Moro, C., **Bajpeyi, S.**, & Smith, S. R. Determinants of intramyocellular triglyceride turnover: implications for insulin sensitivity. *American Journal of Physiology-Endocrinology and Metabolism*, 294(2), E203-E213 (2008); Impact Factor 2013 = 4.266; SCImago – PHYSIOLOGY 19/44 Quartile 1

#### **INVITED PRESENTATIONS:**

1. September 2019: University of Vermont; Exercise – Medicine to improve insulin sensitivity? (*keynote speaker*)
2. September 2017: University of Missouri; Lipid Droplets – Relevance to insulin resistance
3. June 2017: Journey of a scientist; NIH BUILDing Scholars kick-off event
4. April 2017: Texas Tech Health Science Center, El Paso; *Relevance of Intramuscular Lipid to Insulin Resistance*
5. February 2017: American College of Sports Medicine (Texas) chapter, Dallas, TX; *Does Intramyocellular Lipid Really Affect Insulin Sensitivity?*
6. August 2016: Rammohan College, India: *Intramyocellular Lipid, Oxidative Capacity, and skeletal muscle insulin action*



7. Spring 2015 "Exercise, Intramyocellular Lipid and Pat Proteins – *The Potential Role of PLIN3 in fat oxidation*" Health Research Symposium. Seminar
8. Fall 2014: Bajpeyi, Sudip and McAinch Andrew – *Role of endocannabinoids and diet in obesity management.*
9. August 2014; Krishnath College, India: *Exercise training and lipid metabolism*

### **ABSTRACTS OF RESEARCH PRESENTATIONS:**

(†Oral Presentations)

1. Gándara, I., Sigaroodi, S., Naughton, S., O’Keefe, L., Simcocks, A., Hryciw, D., Mathai, M., McAinch, **Bajpeyi, S.** Effects of fatty acid composition in a high fat diet on skeletal muscle mitochondrial content. *Campus Office of Undergraduate Research Initiatives Spring Symposium, El Paso, TX. El Paso, TX. April 25, 2020*
2. Tyree, J., Guillen, D., Medina, A., Sanchez, M., **Bajpeyi, S.** Effects of Time Spent in Moderate to Vigorous Physical Activity on Lipid Profile. *Campus Office of Undergraduate Research Initiatives Spring Symposium, El Paso, TX. El Paso, TX. April 25, 2020*
3. **Bajpeyi, S.**, Galvan, M., Sanchez, M., Boyle, J., Min, K., Agullo, F., Covington, J. Improvement in glucose metabolism with four weeks of neuromuscular electrical stimulation in sedentary adults. *American Diabetes Association (ADA) 80th Scientific Sessions, Chicago, IL. June 12-16, 2020 (submitted)*
4. Sanchez, M., Galvan, M., Gandara, I., Nacim, D., Covington, J., Boyle, J., Agullo, F., Min, K., **Bajpeyi, S.** Improvement in Insulin Sensitivity with Four Weeks of Neuromuscular Electrical Stimulation in Overweight/obese Sedentary Adults. *American College of Sports Medicine Annual Meeting, San Francisco, CA, May 26 – 30, 2020 (Submitted)*
5. Min, K., Huang, Y., Bajpeyi, S., and Bennett, A. Loss of MKP-5 protects cardiac function from pressure overload-induced cardiac hypertrophy. *American College of Sports Medicine Annual Meeting, San Francisco, CA, May 26 – 30, 2020 (Submitted)*
6. **(Finalist for graduate research presentation)**  
Sanchez, M., Galvan, M., Nacim, D., Agullo, F., **Bajpeyi, S.** (2020) Improved glucose tolerance and glucose utilization with Neuromuscular Electrical Stimulation. *Texas Chapter of American College of Sports Medicine – Waco, TX. February 20 – 21, 2020; International Journal of Exercise Science: Conference Proceedings: 2(11), 65.*
7. †**Bajpeyi, S.**, Amador, M., Meza, C., McAinch, A. Increased Insulin Sensitivity with Exercise is not affected by a Family History of Type 2 Diabetes. *The Obesity week, Las Vegas, NV. Nov 3-7, 2019*
8. †McAinch, A. **Bajpeyi, S.** A Family History of Type 2 Diabetes does not affect exercise induced improvement in Insulin Sensitivity *Australian and New Zealand Obesity Society, Sydney, Australia. Oct 16-18, 2019*
9. Nacim, D., Galvan, M., Sanchez, M., **Bajpeyi, S.** Can electrical stimulation induced muscle Contraction improve insulin sensitivity? *Campus Office of Undergraduate Research Initiatives Summer Symposium, El Paso, TX. El Paso, TX. August 3, 2019*
10. Jenkins, J., Meza, C., Amador, M., McAinch, A., **Bajpeyi, S.** (2019). Monophasic glucose response curve reflective of glucose intolerance in young Mexican Americans. *American Diabetes Association 79th Scientific Sessions, San Francisco, CA. June 7-11, 2019*

11. Garcia, M., Hernandez, K., Wagler, A., **Bajpeyi, S.** (2019). Effects of exercise modes to improve insulin sensitivity in obese and patients with type 2 diabetes – a meta-analysis. *American Diabetes Association 79<sup>th</sup> Scientific Sessions, San Francisco, CA, June 7-11, 2019*
12. Garcia, M., Figueroa, C., Covington, J. D. Smith, S. R., **Bajpeyi, S.** (2019). Electrical pulse stimulation induced increase in lipid and mitochondria depends on donor's physical activity level. *American College of Sports Medicine Annual Meeting, Orlando, Florida, May 29 – June 1, 2019*
13. Galvan, M., Jenkins, J., **Bajpeyi, S.** Metabolic Profile of a 16 Year Old Female Tennis Player – A Case Study. *American College of Sports Medicine Annual Meeting, Orlando, Florida, May 29 – June 1, 2019*
14. Jenkins, J., Earnest, C. P., Conley, K., Smith, S. R., **Bajpeyi, S.** A family history of type 2 diabetes does not limit exercise induced improvement in aerobic fitness and mitochondrial function in normoglycemic sedentary men. *American College of Sports Medicine Annual Meeting, Orlando, Florida, May 29 – June 1, 2019*
15. **Bajpeyi, S.**, Amador, M., Meza, C., Garcia, M., McAinch A. Family history of type 2 diabetes and substrate metabolism following 8 weeks of combined exercise training. *Exercise Metabolism 2019, Sitges, Spain, May 5-7 2019*
16. **(Winner of Martin Frank Diversity Travel Award)**  
Meza, C., Garcia, M., Serrano, J., Gomez, M., Amador, M., McAinch, A., **Bajpeyi, S.** The role of circulating miRNA-29a in exercise-training induced improvements in insulin sensitivity. *Experimental Biology, Orlando, FL April 6-9, 2019*
17. Gandara, I. Naughton, S. O'Keefe, L. Simcocks, A. Hryciw, D. Mathai, M. McAinch, A. **Bajpeyi, S.** Effects of fatty acid composition in a high fat diet on skeletal muscle mitochondria content and PLIN3. *Campus Office of Undergraduate Research Initiative Spring Symposium, 2019, El Paso, TX. April 13, 2019*
18. Rosas, V. Jenkins, J. Varela, A. Covington, J. **Bajpeyi S.** Exercise Leads to Increase in Smaller Lipid Droplet Morphology in Peripheral Region of Muscle Fiber. *Campus Office of Undergraduate Research Initiative Spring Symposium, 2019, El Paso, TX. April 13, 2019*
19. Garcia, M., Gomez, M., Meza, C., McAinch, A., **Bajpeyi, S.** The Effects of a Family History of Type 2 Diabetes on Circulating miRNA-155 and miRNA-133. *Campus Office of Undergraduate Research Initiative Spring Symposium, 2019, El Paso, TX. April 13, 2019*
20. Rosas, V. Jenkins, J. Varela, A. Covington, J. **Bajpeyi S.** Exercise Leads to Increase in Smaller Lipid Droplet Morphology in Peripheral Region of Muscle Fiber. *Texas Chapter of American College of Sports Medicine – Forth Worth, TX. February 28 – March 1, 2019; International Journal of Exercise Science: Conference Proceedings: 2(11), 65.*
21. Jenkins, J., Earnest, C. P., Conley, K., Smith, S.R., **Bajpeyi, S.**, A Family History of Type 2 Diabetes does not Impact Skeletal Muscle Lipid Content. *Texas Chapter of American College of Sports Medicine – Forth Worth, TX. February 28 – March 1, 2019; International Journal of Exercise Science: Conference Proceedings: 2(11), 75*
22. **(Finalist for graduate research presentation)**  
Galvan, M., Jenkins, J., **Bajpeyi, S.**, The effect of neuromuscular electrical stimulation on metabolic changes in a sedentary population: A pilot study. *Texas Chapter of*

- American College of Sports Medicine – Forth Worth, TX. February 28 – March 1, 2019; International Journal of Exercise Science: Conference Proceedings: 2(11), 80.*
23. **(Finalist for undergraduate research presentation)**  
Gándara, I., Naughton, S., O’Keefe, L., Simcocks, A., Hryciw, D., Mathai, M., McAinch, A., **Bajpeyi, S.** Effects of Fatty Acid Composition in a High Fat Diet on Skeletal Muscle Mitochondrial Content. *Texas Chapter of American College of Sports Medicine – Forth Worth, TX. February 28 – March 1, 2019; International Journal of Exercise Science: Conference Proceedings: 2(11), 76.*
  24. Garcia, M., Wagler, A., **Bajpeyi, S.** Effects of Exercise Modes to Improve Insulin Sensitivity and Fat Oxidation in Obese and Patients with Type 2 Diabetes – a Meta-Analysis. *Texas Chapter of American College of Sports Medicine – Forth Worth, TX. February 28 – March 1, 2019; International Journal of Exercise Science: Conference Proceedings: 2(11), 62.*
  25. Gomez, M., **Bajpeyi, S.** (2019). The Effects of a Single Bout of Endurance Exercise on Glucose Transporter-4 (GLUT-4) Content. *Texas Chapter of American College of Sports Medicine – Forth Worth, TX. February 28 – March 1, 2019; 2(11), 68.*
  26. Orozco, N., Jenkins, J., Galvan, M., **Bajpeyi, S.** Neuromuscular electrical stimulation: A pilot study. *BUILDing SCHOLARS Symposium and Consortium Meeting, El Paso, TX. Fall 2018*
  27. Orozco, N., Jenkins, J., Galvan, M., **Bajpeyi, S.** (2018). Two weeks of neuromuscular electrical stimulation delays the onset of fatigue during lower body anaerobic exercise. *Annual Biomedical Research Conference for Minority Students, Indianapolis, Indiana, November 14-17, 2018.*
  28. **(Winner of outstanding presentation award)**  
Covernali, Z., Garcia, M., Jenkins, J., Amador, M., **Bajpeyi, S.** (2018). Time spent in lifestyle activities is associated with better insulin sensitivity and physical fitness in a sedentary population. *Annual Biomedical Research Conference for Minority Students, Indianapolis, Indiana, November 14-17, 2018*
  29. Gomez, M., Meza, C., Garcia, M., De La Pena, C., **Bajpeyi, S.** The effects of a single bout of endurance exercise on glucose transporter 4 (GLUT4) content and translocation to cell membrane. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Summer, 2018*
  30. Fernandez, D., Meza, C., Gandara, I., Garcia, M., **Bajpeyi, S.** Effects of dietary fatty acid composition on perilipin 3 (PLIN3) and hormone sensitive lipase (HSL) proteins in skeletal muscle. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Summer, 2018*
  31. Orozco, N., Jenkins, J., Galvan, M., **Bajpeyi, S.** Neuromuscular electrical stimulation: A pilot study. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Summer, 2018*
  32. Garcia, M., Meza, C., Amador, M., **Bajpeyi, S.** The Effects of Combined Exercise on Circulating miRNA-29 and miRNA-143 in Individuals with Type 2 Diabetes. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Summer, 2018*
  33. Rodriguez, A., Rosas, V., Meza, C., Varela-Ramirez, A., **Bajpeyi, S.** Skeletal Muscle Glucose Metabolism is Affected by Dietary Fatty Acid Composition. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Spring, 2018*

34. Rosas, V., Maldonado, M., Meza, C., Covington, J., Varela-Ramirez, A., **Bajpeyi, S.** A single bout of exercise improves skeletal muscle lipid droplet morphology. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Spring, 2018*
35. Gándara, I., Meza, C., Varela-Ramirez, A., McAinch, A., **Bajpeyi, S.** Effects of fatty acid composition in a high fat diet on skeletal muscle mitochondrial biogenesis. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Spring, 2018*
36. Garcia, M., Meza, C., Amador, M., **Bajpeyi, S.** The role of caloric expenditure on exercise-induced improvements in insulin sensitivity and maximal aerobic capacity. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Spring, 2018*
37. Meza, C., Amador, M., Garcia, M., Figueroa, C., McAinch, A., **Bajpeyi, S.** Lower Glucose Tolerance in Normoglycemic, Healthy Hispanics with a Family History of Type 2 Diabetes. *American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 29 – June 2, 2018*
38. Amador, M., Meza, C., Garcia, M., Figueroa, C., King, G., McAinch, A., **Bajpeyi, S.** A Family History of Type 2 Diabetes Does Not Affect Exercise Induced Improvement in Insulin Sensitivity and Metabolic Flexibility. *American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 29 – June 2, 2018*
39. Garcia, M., Amador, M., Meza, C., Figueroa, C., McAinch, A., **Bajpeyi, S.** Lower VO<sub>2</sub>max in individuals with a family history of diabetes is normalized after 8-weeks exercise. *American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 29 – June 2, 2018*
40. **(Winner of 1<sup>st</sup> position in graduate research presentation)**  
Amador, M., Meza, C., Garcia, M., Figueroa, C., King, G., McAinch, A., **Bajpeyi, S.** Exercise Mediated Improvements in Insulin Sensitivity and Metabolic Flexibility are not Inhibited by a Family History of Type 2 Diabetes. *Texas Chapter of the American College of Sports Medicine Annual Meeting, Austin, TX, March 1 – 2, 2018. International Journal of Exercise Science: Conference Proceedings, 2(10), 60.*
41. **(Finalist for undergraduate research presentation)**  
Garcia, M., Amador, M., Meza, C., Figueroa, C., McAinch, A., **Bajpeyi, S.** A Family History of Type 2 Diabetes does Not Impact Maximal Aerobic Capacity in Normoglycemic, Hispanic Males. *Texas Chapter of the American College of Sports Medicine Annual Meeting, Austin, TX, March 1 – 2, 2018. International Journal of Exercise Science: Conference proceedings, 2(10), 40.*
42. Meza, C., Amador, M., Garcia, M., Figueroa, C., McAinch, A., **Bajpeyi, S.** A Family History of Type 2 Diabetes May Impair Glucose Area Under the Curve in Young, Healthy Hispanics. *Texas Chapter of the American College of Sports Medicine Annual Meeting, Austin, TX, March 1 – 2, 2018. International Journal of Exercise Science: Conference Proceedings, 2(10), 34.*
43. Figueroa, C., Amador, M., Meza, C., Garcia, M., McAinch, A., **Bajpeyi, S.** Exercise-Induced Improvement in Oxygen Consumption at Ventilatory Threshold is Unaffected by Family History of Diabetes. *Texas Chapter of the American College of Sports Medicine Annual Meeting, Austin, TX, March 1 – 2, 2018. International Journal of Exercise Science: Conference Proceedings: 2(10), 57*



44. †Meza, C., Amador, M., De La Peña, C., Figueroa, C., Garcia, M., Maldonado, M., Covington, J., McAinch, A., **Bajpeyi, S.** Lower glucose tolerance in offspring of Hispanic Type 2 Diabetes patients. *Graduate Student Research Expo, El Paso, TX University of Texas at El Paso, El Paso, TX November 10, 2017.*
45. †Amador, M., Meza, C., De La Peña, C., Figueroa, C., Garcia, M., Maldonado, M., Covington, J., McAinch, A., King, G., **Bajpeyi, S.**, Exercise Induced Improvements in Insulin Sensitivity, Metabolic Flexibility and Aerobic Fitness are Not Influenced by a Family History of Type 2. *Graduate Student Research Expo, El Paso, TX University of Texas at El Paso, El Paso, TX November 10, 2017.*
46. Amador, M., Meza, C., Mangadu, T., **Bajpeyi, S.**, Eight weeks of Exercise Training Restores Metabolic Defects in Normoglycemic Hispanic Men with a Family History of Type 2 Diabetes. *World Congress on Targeting Metabesity, October 30-31, 2017. London, United Kingdom*
47. Fernandez, D., Meza, C., De La Pena, C., Montenegro, C., O'Keefe, L., Naughton, S., Simcocks, A., Hryciw, D., Mathai, M., Varela, A., McAinch, A., **Bajpeyi, S.** Effects of high fat diets, differing in fatty acid composition, on insulin sensitivity. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Summer, 2017.*
48. **(Winner of 1<sup>st</sup> place in research presentation)**  
Amador, M., Meza, C., De La Peña, C., Figueroa, C., Garcia, M., Maldonado, M., Covington, J., McAinch, A., King, G., **Bajpeyi, S.**, Insulin Sensitivity and Metabolic Flexibility Improvements Following Eight Weeks of Combined Exercise Training in Normoglycemic, Sedentary, Young Mexican-American Men. *El Paso Community College, University of Texas at El Paso, New Mexico State University Graduate Research Symposium. El Paso Community College, El Paso TX. July 31st, 2017.*
49. **(Winner of 1<sup>st</sup> place in research presentation)**  
Meza, C., Montenegro, C., De La Peña, C., O'Keefe, L., Naughton, S., Simcocks, A., Hryciw, D., Mathai, M., Varela, A., McAinch, A., and **Bajpeyi, S.** (2017) A high fat diet, rich in monounsaturated fatty acids, protects against impairments in GLUT4 translocation. *El Paso Community College, University of Texas at El Paso, New Mexico State University Graduate Research Symposium. El Paso Community College, El Paso TX. July 31st, 2017.*
50. Amador, M., Meza, C., Montenegro, C., Herrera, M., McAinch, A., King, G.A., **Bajpeyi, S.** (2017). Exercise induced improvement in insulin sensitivity and metabolic flexibility in normoglycemic, sedentary, young, Mexican American men. *77<sup>th</sup> Scientific Sessions, American Diabetes Association, San Diego, CA; June 9-13, 2017*
51. Meza, C., Montenegro, C., De La Pena, C., O'Keefe, L., Naughton, S., Simcocks, A., Hryciw, D., Mathai, M., Varela, A., McAinch, A., **Bajpeyi, S.** High fat diet rich in polyunsaturated fatty acids downregulates GLUT 4, but not skeletal muscle glycogen. *American College of Sports Medicine Annual Meeting, Denver, CO. May 30-June 3, 2017.*
52. Garcia, M., Meza, C., Montenegro, C., De La Pena, C., O'Keefe, L., Naughton, S., Simcocks, A., Hryciw, D., Mathai, M., Varela, A., McAinch, A., **Bajpeyi, S.** Replacing saturated with monounsaturated fatty acids, in a high fat diet, protects against impaired skeletal muscle glucose transport. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Summer, 2017*
53. De La Pena, C., Meza, C., Montenegro, C., Maldonado, M., Varela, A., Covington, J., **Bajpeyi, S.**, The effects of a high fat diet and physical activity on mitochondria, PLIN3,

- and PLIN5 protein contents in humans. *Campus Office of Undergraduate Research Initiative Spring Symposium, El Paso, TX. Summer, 2017*
54. Meza, C., Montenegro, C., De La Peña, C., O'Keefe, L., Naughton, S., Simcocks, A., Hryciw, D., Mathai, M., Varela, A., McAinch, A., and **Bajpeyi, S.** (2017). A high-fat diet rich in polyunsaturated fatty acids downregulates glut4, but not skeletal muscle glycogen. *American College of Sports Medicine Annual Meeting, May 30 – June 3, 2017, Denver, CO*
  55. **(Finalist for undergraduate research presentation)**  
Montenegro, C., De La Peña, C., Meza, C., Naughton, S., Simcocks, A., O'Keefe, L., Hryciw, D., Mathai, M., McAinch, A. **Bajpeyi, S.** High fat diet rich in saturated fatty acids, but not monounsaturated fatty acids, impairs glycogen preservation after adiponectin treatment. *Texas Chapter of American College of Sports Medicine – Waco, TX. February 16-17, 2017; International Journal of Exercise Science: Conference Proceedings, 2(9),18.*
  56. **(Winner of 2<sup>nd</sup> position in graduate research presentation)**  
Meza, C., Montenegro, C., De La Peña, C., O'Keefe, L., Naughton, S., Simcocks, A., Hryciw, D., Mathai, M., McAinch, A., **Bajpeyi, S.** High fat diet induced obesity impairs skeletal muscle glycogen and lipid preservation after adiponectin incubation. *Texas Chapter of American College of Sports Medicine – Waco, TX. February 16-17, 2017. International Journal of Exercise Science: Conference Proceedings, 2(9), 28.*
  57. **(Finalist for undergraduate research presentation)**  
De La Peña, C., Meza, C., Montenegro, C., Simcocks, A., Naughton, S., O'Keefe, L., Hryciw, D., Mathai, M., McAinch, A., **Bajpeyi, S.** Lower skeletal muscle mitochondrial content after a high fat diet rich in polyunsaturated fatty acids compared to a high fat diet rich in monounsaturated fatty acids. *Texas Chapter of American College of Sports Medicine – Waco, TX. February 16-17, 2017. International Journal of Exercise Science: Conference Proceedings, 2(9), 27.*
  58. **(Winner of 3<sup>rd</sup> position in graduate research presentation)**  
Amador, M., Meza, C., Montenegro, C., Covington, J., McAinch, A., King, G., **Bajpeyi, S.** Eight weeks of combined exercise training induced improvements in insulin sensitivity is associated with improvement in aerobic capacity, but not with improvement in strength. *Texas Chapter of American College of Sports Medicine – Waco, TX. February 16-17, 2017. International Journal of Exercise Science: Conference Proceedings: 2(9), 48.*
  59. Mangadu. T., **Bajpeyi, S.**, Orezzaoli, M. C. E., Leos, J. (2017). Implications for Diabetes Prevention at the Community Level from a U.S.-MX Border Intervention: The “Eat Well! El Paso” Restaurant Initiative. *Today's Research Tomorrow's Therapies. Miami, FL. January 22-25, 2017*
  60. Naughton, S., Meza, C., Simcocks, A., Montenegro, C., O'Keefe, L., De La Pena, C., Mathai, M., Hryciw, D., **Bajpeyi S.**, McAinch, A. Adiponectin is capable of sparing glycogen content with a monounsaturated fatty acid rich high fat diet. *Metabolic Diseases; Breakthrough Discoveries in Diabetes & Obesity - Melbourne, Australia. December 1-2, 2016.*
  61. Meza, C., Montenegro, C., De La Pena, C., O'Keefe, L., Naughton, S., Simcocks, A., Hryciw, D., Mathai, M., McAinch, A., **Bajpeyi, S.** (2016). A high fat diet rich in monounsaturated fat preserves skeletal muscle glycogen content following adiponectin

- incubation. *Graduate Student Research Expo, El Paso, Tx University of Texas at El Paso, El Paso, TX November 11, 2016.*
62. Amador, M, Covington, J.D., McAinch, A, King, G.A. **Bajpeyi, S.** Impact of family history of type 2 diabetes on exercise induced improvement in insulin sensitivity and metabolic flexibility in normoglycemic sedentary men. *Graduate Student Research Expo, El Paso, Tx University of Texas at El Paso, El Paso, TX November 11, 2016.*
  63. Amador, M., Meza, C., Perales, J., Dorgo, S., **Bajpeyi, S.** Six Weeks of Sprint Training Improves Sprint Time and Aerobic Fitness Independent of Training Performed on a Track or Treadmill. APS Intersociety Meeting: *The Integrative Biology of Exercise VII, Phoenix, AZ, November 2-4, 2016.*
  64. Montenegro, C., De La Pena, C., Meza, C., Naughton, S., Simcocks, A., O'Keefe, L., Hryciw, D., Mathai, M., McAinch, A., **Bajpeyi, S.** Adiponectin is more effective in sparing glycogen content with high fat diet in dietary monounsaturated fat compared to diets high in saturated and polyunsaturated fat. *American Physiological Society: The Integrative Biology of Exercise Chapter VII– Phoenix, AZ. November 2-4, 2016.*
  65. Meza, C., Montenegro, C., De La Pena, C., O'Keefe, L., Naughton, S., Simcocks, A., Hryciw, D., Mathai, M., McAinch, A., **Bajpeyi, S.** Adiponectin incubation decreases skeletal muscle glycogen content after reverting to a chow diet following diet induced obesity. *American Physiological Society: The Integrative Biology of Exercise Chapter VII – Phoenix, AZ. November 2-4, 2016.*
  66. De La Pena, C., Meza, C., Montenegro, C., Simcocks, A., Naughton, S., O'Keefe, L., Hryciw, D., Mathai, M., McAinch, A., **Bajpeyi, S.** Skeletal muscle glycogen content is unaffected by dietary fatty acid composition. *American Physiological Society: The Integrative Biology of Exercise Chapter VII. Phoenix, AZ. November 2-4, 2016.*
  67. Herrera, M. N., Amador, M., Meza, C., Uranga, S., Montenegro, C., De La Pena, C., Mata, A. D., **Bajpeyi, S.** The effects of family history of type 2 diabetes and 8-weeks of combined training on insulin sensitivity and metabolic flexibility in a Hispanic population. *BUILDing SCHOLARS Fall Symposium, University of Texas at El Paso; El Paso; TX September 2016.*
  68. Meza, C., Montenegro, C., De La Pena, C., O'Keefe, L., Naughton, S., Simcocks, A., Hryciw, D., Mathai, M., McAinch, A., **Bajpeyi, S.** Adiponectin incubation reduces glycogen content with a chow diet following diet-induced obesity, however increases glycogen in diets high in monounsaturated fat. *Campus Office of Undergraduate Research Initiative Symposium, El Paso, TX. Aug 6, 2016.*
  69. Perales, J., Amador, M., **Bajpeyi, S.**, Dorgo, S., Effects of Treadmill and Overground Sprint Training Modes On Sprint Speed, Body Composition and Aerobic Power. *National Strength and Conditioning Association 2016 National Conference, New Orleans, LA. July 6-9, 2016*
  70. Perales, J., Dorgo, S., **Bajpeyi, S.** Comparison of the effectiveness of treadmill vs. overground spring training on overground and treadmill maximum running speed. *National Strength and Conditioning Association 2016 National Conference, New Orleans, LA, July 6-9, 2016.*
  71. Covington, J.D., Johannsen, D.L., Herbert, C., Zhang, Z., Conley, K.E., Tam, C.S., Smith, S.R., Ravussin, E., **Bajpeyi, S.** Eight weeks of overfeeding decrease mitochondrial content, function, SIRT6 and mitochondrial SIRT3 protein content in humans. *American Diabetes Association 76th scientific sessions, New Orleans, LA June 10-14, 2016*

72. Conde, D., Gamboa, C., Covington, J., King, G. A., **Bajpeyi, S.** Effects of 11.5 or 30 volts of pulse stimulation on mitochondrial density *in vitro*. *American College of Sports Medicine – Boston, MA. May 31- June 4, 2016*
73. Amador, M., Perales, J. A., Montalvo, S., **Bajpeyi, S.**, Dorgo, S. The Effects of Two Different Sprint Training Modalities on Sprint Speed, Aerobic Fitness and Body Composition. *Texas Chapter of the American College of Sports Medicine Annual Meeting, College Station, Texas; March 2-4, 2016*
74. Konrardy, A. K., Amador, M., Sanchez-Barrios, P., Covington, J. D., Moore, J., McAinch, A., King, G., & **Bajpeyi, S.** Does a first degree family history of T2DM negatively impact insulin sensitivity in Normoglycemic Hispanic males? *Graduate Student Research Expo, El Paso, Tx University of Texas at El Paso, El Paso, TX November 11, 2015.*
75. Sanchez-Barrios, P., Konrardy, A. K., Amador, M., Covington, J. D., Moore, J., McAinch, A., King, G., & **Bajpeyi, S.** Does a family history of type 2 diabetes affect exercise induced improvement in insulin sensitivity in a Hispanic male population? *Graduate Student Research Expo, El Paso, Tx University of Texas at El Paso, El Paso, TX November 11, 2015.*
76. Amador, M., Covington, J.D., Maier-Moore, J., McAinch, A., King, G., **Bajpeyi, S.**, Does a Family History of Type 2 Diabetes Affect Exercise Induced Improvement in Myokine concentration in a Hispanic male Population? *Graduate Student Research Expo, El Paso, Tx University of Texas at El Paso, El Paso, TX, Nov. 11, 2015*
77. †Covington, J.D., Coen, P.M., Burk, D.H., Obanda, D. N., Ebenezer, P.J., Tam, C.S., Johannsen, D. L., Goodpaster, B.H., Ravussin, E., **Bajpeyi, S.** Intramyocellular Lipid Droplet Size Rather Than Total Lipid Content Is Related to Insulin Sensitivity After 8-Weeks of Overfeeding. *American Diabetes Association 75<sup>th</sup> scientific sessions, Boston, MA, June 5-9, 2015*
78. Conde, D., Gamboa, C., Covington, J., Rustan, A., King, G. A., Varela, A., **Bajpeyi, S.** Electrical Pulse Stimulation induced changes on lipid, mitochondrial, GLUT4 and AMPK content in human myotubes. *American College of Sports Medicine – San Diego, CA. May 26-30, 2015*
79. Gamboa, C., Conde, D., Covington, J., Rustan, A.C., King, G.A., Varela, A., **Bajpeyi, S.** Electrical pulse stimulation increases mitochondrial content in lean, but not in type 2 diabetic myotubes. *American College of Sports Medicine – San Diego, CA May 26-30, 2015*
80. Valverde, L.F., Marquez, E. L., O’Keefe, L., Naughton, S., Simcoks, A., Jenkin, K., Hryciw, D., Mathai, M., McAinch, A., **Bajpeyi, S.** Human skeletal muscle oxidative capacity is improved by cannabinoid receptor 2 antagonist (CB2). *American College of Sports Medicine 62<sup>nd</sup> Annual Meeting – San Diego, CA. May26 – 30, 2015.*
81. Conde, D., Gamboa, C., Covington, J., Rustan, A., King, G. A., Varela, A., **Bajpeyi, S.** 24 hrs of Electrical Pulse Stimulation upregulates GLUT4 and AMPK protein content in human myotubes. *American College of Sports Medicine – Texas chapter. Austin, TX Feb 26-27, 2015*
82. Conde, D., Gamboa, C., Covington, J., Rustan, A., King, G. A., Varela, A., **Bajpeyi, S.** Effects of electrical pulse stimulation on lipid and mitochondrial content in human myotubes. *Keystone Symposia on Mitochondria, Metabolism and Heart Failure, Santa Fe, NM, January 27 – February 1, 2015.*



83. Conde, D., Gamboa, C., Covington, J., Rustan, A., Varela, A., King, G. A., **Bajpeyi, S.** Electrical Pulse Stimulation induced improvement in lipid, mitochondrial and AMPK content is dependent on cell harvesting time in human myotubes. *The University of Texas at El Paso Graduate Student Research Expo, El Paso, TX, November 14, 2014.*
84. Conde, D., Gamboa, C., Covington, J., Rustan, A., Varela, A., King, G. A., **Bajpeyi, S.** Electrical pulse stimulation induced improvement in lipid, mitochondrial and AMPK content is dependent on cell harvest time in human myotubes. *11th Annual Faces of Diabetes Conference, El Paso, TX, October 24, 2014.*
85. Gamboa, C., Conde, D., Covington, J., Rustan, A., King, G. A., Varela, A., **Bajpeyi, S.** Electrical pulse stimulation increases in mitochondrial content is not evident in myotubes from donors with type 2 diabetes. *11th Annual Faces of Diabetes Conference, El Paso, TX, October 24, 2014.*
86. Marquez, E. L., Valverde, L. F., O'Keefe, L., Naughton, S., Simcocks, A., Jenkin, K., Hryciw, D., Mathai, M. Conde, D., McAinch, A., **Bajpeyi, S.** Cannabinoid receptor (CB2) antagonist improves skeletal muscle oxidative capacity. *11th Annual Faces of Diabetes Conference, El Paso, TX, October 24, 2014.*
87. **Bajpeyi, S.**, Conley, K.E., Newcomer, B., Jubrias, S.A., Gamboa, C., Murray, K., Sparks, L.M., Smith, S.R. Twelve weeks of pioglitazone treatment improves insulin sensitivity, lipid utilization and metabolic flexibility – but not maximal ATP synthesis capacity. *American Diabetes Association 74<sup>th</sup> scientific sessions San Francisco, CA, June 13-17, 2014*
88. Conde, D., Covington, J.D., Gamboa, C., King, G.A., Rustan, A.C., **Bajpeyi, S.** Electrical pulse stimulation induced increase in mitochondrial content is dependent on duration of stimulation. *American College of Sports Medicine – Orlando, FL. May 27-31, 2014*
89. Marquez, E., Rodriguez R., Valverde L. F., Beltran S., Walker E., Varela A., Gosselink K., **Bajpeyi S.** Effects of Stress on Skeletal Muscle Glycogen and Mitochondrial Content. *COURI Symposium Abstracts, Summer 2014.*
90. Rodriguez, R.R., Valverde, L.F., Beltran, S.M., Walker, E.M, Varela, A., Khan, A.M., Gosselink, K.L., **Bajpeyi, S.** Chronic stress decrease mitochondrial content in rat skeletal muscle. *The 4<sup>th</sup> annual Campus Office of Undergraduate Research Initiatives symposium, El Paso, TX. April 26, 2014*
91. Henagan, T.G., Covington, J.D., Stewart, L.K., Galgani, J.E., Ravussin, E., **Bajpeyi, S.** Exercise repositions the -1 nucleosome within the PGC1 $\alpha$  promoter in association with alterations in gene expression in skeletal muscle. *Experimental Biology – San Diego, CA. April 26-30, 2014*
92. Conde, D., Covington, J.D., Gamboa, C., King, G.A., Rustan, A.C., **Bajpeyi, S.** Increase in mitochondrial content after electrical pulse stimulation is dependent on duration of stimulation. *Conference Proceedings: Vol. 2 : Iss. 6 , Article 44. American College of Sports Medicine – Texas chapter. Forth Worth, TX Feb 27-28, 2014*
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