

Andy V. Khamoui, PhD

Assistant Professor

Department of Exercise Science & Health Promotion

Florida Atlantic University

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Education

- 2009-2014 Florida State University, Tallahassee, FL
Doctor of Philosophy in Exercise Physiology
Dissertation: Exercise dependent skeletal muscle plasticity and signaling in cancer cachexia
- 2006-2009 California State University, Fullerton, Fullerton, CA
Master of Science in Kinesiology
- 2002-2006 Whittier College, Whittier, CA
Bachelor of Arts in Kinesiology

Academic and Professional Honors

- 2020 Early Career Fellow, Transdisciplinary Research in Energetics and Cancer (TREC) Training Program, NCI R25CA203650 (PI: Melinda Irwin)
- 2014 Dean's Scholar, College of Human Sciences, Florida State University (awarded by Dean to thesis/dissertation producing graduate students with a cumulative GPA $\geq$ 3.9)
- 2013 Dissertation Research Grant, The Graduate School, Florida State University
- 2013 Dissertation Research Grant, College of Human Sciences, Florida State University
- 2013 Member, The Honor Society of Phi Kappa Phi (top 10% within college)
- 2011 Florence Smith McAllister Endowed Fellowship, College of Human Sciences, Florida State University
- 2009 Outstanding Graduate Student, Department of Kinesiology, California State University, Fullerton (one award per year)
- 2009 Nominee, Outstanding Thesis, College of Health and Human Development, California State University, Fullerton
- 2008 Graduate Equity Fellowship, Office of Graduate Studies, California State University, Fullerton, (86 applicants, 16 awarded)
- 2008 Honorable Mention, California Pre-Doctoral Program, The California State University

Positions and Employment

- 2020- **Associate Faculty**
Integrative Biology Graduate Program, Biomedical Science and Neuroscience concentrations
Florida Atlantic University, Boca Raton, FL
- 2020- **Faculty Member**
Institute for Human Health and Disease Intervention, Florida Atlantic University, Jupiter, FL
Responsible for contributing to activities of the cancer research group within the institute
- 2016- **Assistant Professor, Tenure-Track**
Department of Exercise Science & Health Promotion
Florida Atlantic University, Boca Raton, FL
Responsible for independent research on tissue-specific mitochondrial function (adipose, liver, and skeletal muscle) in pre-clinical cancer cachexia, aging, and metabolic disease, seeking to identify therapeutic targets that improve supportive care and treatment options. Use of omics technologies and bioinformatics to identify candidate therapeutic targets. Teach undergraduate and graduate level courses and supervise student research.
- 2014-2016 **Postdoctoral Fellow**
Division of Respiratory & Critical Care Physiology & Medicine, Department of Medicine
Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, Torrance CA
Studied mitochondrial function in mouse and fly models of genetically modified myostatin expression, maternal obesity, and aging (Mentors: Harry Rossiter PhD, Mina Desai PhD). Operated the high-resolution respirometry core laboratory for collaborating partners in the UCLA Clinical and Translational Science Institute (CTSI) network
- 2009-2014 **Graduate Research Assistant**
Department of Nutrition, Food and Exercise Sciences
Florida State University, Tallahassee FL
Examined cellular and molecular responses of skeletal muscle to exercise and nutrition in rodent models of aging, obesity, and cancer cachexia (Mentor: Jeong-Su Kim PhD).
- 2009-2014 **Graduate Teaching Assistant**
Department of Nutrition, Food and Exercise Sciences
Florida State University, Tallahassee FL
Instructed undergraduate students in laboratory courses.
- 2007-2009 **Research Assistant**
Department of Kinesiology
California State University, Fullerton, Fullerton CA
Studied neuromuscular adaptations to high velocity exercise (Mentor: Lee Brown, EdD).

- 2007-2009 **Teaching Associate**
 Department of Kinesiology
 California State University, Fullerton, Fullerton, CA
 Instructed undergraduate physical activity courses.
- 2005-2007 **Physical Therapy Technician**
 California Rehabilitation & Sports Therapy, La Habra, CA
 Administered therapeutic modalities and exercise programs in outpatient orthopedic clinic.

Refereed Publications

1. **Khamoui AV**, Tokmina-Roszyk D, Rossiter HB, Fields GB, and Visavadiya NP. Hepatic proteome analysis reveals altered mitochondrial metabolism and suppressed acyl-CoA synthetase-1 in colon-26 tumor-induced cachexia. *Physiological Genomics*. 52: 203-216, 2020. PMID: 32146873
2. Pena GS*, Paez HG*, Johnson TK*, Halle JL*, Carzoli JP*, Visavadiya NP, Zourdos MC, Whitehurst MA, and **Khamoui AV**. Hippocampal Growth Factor and Myokine Cathepsin B Expression following Aerobic and Resistance Training in 3xTg-AD Mice. *International Journal of Chronic Diseases*. Article ID 5919501, 2020. PMID: 32090058 *Student Authors
3. Halle JL*, Pena GS*, Paez HG*, Castro AJ*, Rossiter HB, Visavadiya NP, Whitehurst MA, and **Khamoui AV**. Tissue-specific dysregulation of mitochondrial respiratory capacity and coupling control in colon-26 tumor-induced cachexia. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*. 317: R68-R82, 2019. PMID: 31017805 *Student Authors
4. Lee S-R, **Khamoui AV**, and Jo E. Chronic fish oil consumption with resistance training improves grip strength, physical function, and blood pressure in community-dwelling older adults. *Sports* 7, 167, 2019.
5. Jo E, Worts PR, Elam M, Brown AF, **Khamoui AV**, Kim D-H, Yeh M-C, Ormsbee MJ, Prado CM, Cain A, Smith D, Snyder K, and Kim J-S. Resistance training during a 12-week protein supplemented VLCD treatment enhances weight-loss outcomes in obese patients. *Clinical Nutrition*. 38: 372-832, 2019. PMID: 29352654
6. **Khamoui AV**, Desai M, Ross MG, and Rossiter HB. Sex-specific effects of maternal and postweaning high-fat diet on skeletal muscle mitochondrial respiration. *Journal of Developmental Origins of Health and Disease*. 9: 670-677, 2018. PMID: 30111387
7. Lee S-R, **Khamoui AV**, Jo E, Zourdos MC, Panton LB, Ormsbee MJ, and Kim J-S. Effect of conjugated linoleic acids and omega-3 fatty acids with or without resistance training on muscle mass in high fat diet-fed middle aged mice. *Experimental Physiology*. 102(11): 1500-1512, 2017. PMID: 28795443

8. Rana A, Olivera M, **Khamoui AV**, Rera M, Aparicio R, Rossiter HB, and Walker DW. Inducing Drp-1 mediated mitochondrial fission in midlife prolongs healthy lifespan of *Drosophila melanogaster*. *Nature Communications*. 8(1): 448, 2017. PMID: 28878259
9. **Khamoui AV**, Yeh M-C, Park B-S, Kim D-H, Jo E, Arjmandi BH, and Kim J-S. Bone mineral density and content are differentially impacted by aerobic and resistance training in the colon-26 mouse model of cancer cachexia. *Applied Cancer Research*. 37:17, 2017. DOI 10.1186/s41241-017-0023-y
10. Zourdos MC, Bazyler CD, Jo E, **Khamoui AV**, Park B-S, Lee S-R, Panton LB, and Kim J-S. Impact of a submaximal warm-up on endurance performance in highly trained and competitive male runners. *Research Quarterly for Exercise and Sport*. 88(1):114-119, 2017. PMID: 27636554
11. **Khamoui AV**, Park B-S, Kim D-H, Yeh M-C, Oh S-L, Elam ML, Jo E, Arjmandi BH, Salazar G, Grant SC, Contreras RJ, Lee WJ, and Kim J-S. Aerobic and resistance training dependent skeletal muscle plasticity in the colon-26 murine model of cancer cachexia. *Metabolism*. 65(5): 685-698, 2016. PMID: 27085776
12. Park B-S*, **Khamoui AV***, Brown LE, Kim D-Y, Han K-A, Min K-W, and An G-H. Effects of elastic band resistance training on glucose control, body composition, and physical function in women with short-versus long-duration type 2 diabetes. *Journal of Strength and Conditioning Research*. 30(6):1688-1699, 2016. *Co-Lead Authors. PMID: 26562712
13. Zourdos MC, Jo E, **Khamoui AV**, Lee S-R, Park B-S, Ormsbee MJ, Panton LB, Contreras RJ, and Kim J-S. Modified daily undulating periodization model produces greater performance than a traditional configuration in powerlifters. *Journal of Strength and Conditioning Research*. 30(3): 784-791, 2016. PMID: 26332783
14. Jo E, Kim J-S, Ormsbee MJ, Prado CM, and **Khamoui AV**. The physiological basis for weight recidivism following severe caloric restrictive diet therapies: a molecular rationale for exercise- and nutrition-based treatment optimization. *Journal of Advanced Nutrition and Human Metabolism*. 2: e1105, 2016.
15. Lee S-R, **Khamoui AV**, Jo E, Park B-S, Zourdos MC, Panton LB, Ormsbee MJ, and Kim J-S. Effects of chronic high fat feeding on skeletal muscle mass and function in middle-aged mice. *Aging Clinical and Experimental Research*. 27(4): 403-411, 2015. PMID: 25647784
16. Zourdos MC, Henning PC, Jo E, **Khamoui AV**, Lee S-R, Park Y-M, Naimo M, Panton LB, Nosaka K, and Kim J-S. Repeated bout effect in muscle-specific exercise variations. *Journal of Strength and Conditioning Research*. 29(8): 2270-2276, 2015. PMID: 25647658
17. Lin Y-A, **Khamoui AV**, Liao C-C, Huang C-C, and Hsu M-C. Improvement of exercise performance and attenuation of a marker of muscle damage by Epimedium brevicornum supplementation in mice. *Adaptive Medicine*. 7(2): 97-105, 2015.

18. Kim J-S*, **Khamoui AV***, Jo E, Park B-S, and Lee W-J. β -hydroxy- β -methylbutyrate as a countermeasure for cancer cachexia: a cellular and molecular rationale. *Anti-Cancer Agents in Medicinal Chemistry*. 13(8): 1188-1196, 2013. *Co-Lead Authors. PMID: 23919746
19. Kim J-S, Park Y-M, Lee S-R, Masad IS, **Khamoui AV**, Jo E, Park B-S, Arjmandi BH, Panton LB, Lee W-J, and Grant SC. β -hydroxy- β -methylbutyrate did not enhance high intensity resistance training-induced improvements in myofiber dimensions and myogenic capacity in aged female rats. *Molecules and Cells*. 34(5): 439-448, 2012. PMID: 23149873
20. **Khamoui AV** and Kim J-S. Candidate mechanisms underlying effects of contractile activity on muscle morphology and energetics in cancer cachexia. *European Journal of Cancer Care*. 21(2): 143-157, 2012. PMID: 21880081
21. Tran TT, Brown LE, Coburn JW, Lynn SK, Dabbs NC, Schick MG, Schick EE, **Khamoui AV**, Uribe BP, and Noffal GJ. Effects of different elastic cord assistance levels on vertical jump. *Journal of Strength and Conditioning Research*. 25(12): 3472-3478, 2011. PMID: 21804422
22. Henning PC, **Khamoui AV**, and Brown LE. Preparatory strength and endurance training for U.S. Army basic combat training. *Strength and Conditioning Journal*. 33(5): 48-57, 2011
23. **Khamoui AV**, Brown LE, Nguyen D, Uribe BP, Coburn JW, Noffal GJ, and Tran T. Relationship between force-time and velocity-time characteristics of dynamic and isometric muscle actions. *Journal of Strength and Conditioning Research*. 25(1): 198-204, 2011. PMID: 19966585
24. Johnson TM, Brown LE, Coburn JW, Judelson DA, **Khamoui AV**, Tran TT, and Uribe BP. Effect of four different starting stances on sprint time in collegiate volleyball players. *Journal of Strength and Conditioning Research*. 24(10): 2641-2646, 2010. PMID: 20885191
25. Eurich AD, Brown LE, Coburn JW, Noffal GJ, Nguyen D, **Khamoui AV**, and Uribe BP. Performance differences between sexes in the pop-up phase of surfing. *Journal of Strength and Conditioning Research*. 24(10): 2821-2825, 2010. PMID: 20733519
26. Uribe BP, Coburn JW, Brown LE, Judelson DA, **Khamoui AV**, and Nguyen D. Muscle activation when performing the chest press and shoulder press on a stable bench vs. a swiss ball. *Journal of Strength and Conditioning Research*. 24(4): 1028-1033, 2010. PMID: 20300023
27. Schick EE, Coburn JW, Brown LE, Judelson DA, **Khamoui AV**, Uribe BP, Tran T, and Reyes C. A comparison of muscle activation between a smith machine and free weight bench press. *Journal of Strength and Conditioning Research*. 24(3): 779-784, 2010. PMID: 20093960

28. **Khamoui AV**, Brown LE, Coburn JW, Judelson DA, Uribe BP, Nguyen D, Tran T, Eurich AD, and Noffal GJ. Effect of potentiating exercise volume on vertical jump parameters in recreationally trained men. *Journal of Strength and Conditioning Research*. 23(5): 1465-1469, 2009. PMID: 19593219
29. Nguyen D, Brown LE, Coburn JW, Judelson DA, Eurich AD, **Khamoui AV**, and Uribe BP. Effect of delayed-onset muscle soreness on elbow flexion strength and rate of velocity development. *Journal of Strength and Conditioning Research*. 23(4): 1282-1286, 2009. PMID: 19568034

Preprints

1. Gnaiger E and **MitoEAGLE Network** (I am one of 600+ authors of position statement on experimental standards for the assessment of mitochondrial respiratory function). Mitochondrial respiratory states and rates. *MitoFit Preprint Archives*. 2019. doi:10.26124/mitofit:190001

Professional Service

2020-	Guest Editor, “Skeletal Muscle Development from Infancy to Adolescence” on behalf of the journal <i>Children</i>
2020-	Reviewer, Journal of Cellular and Molecular Medicine
2018-	Reviewer, American Journal of Physiology-Cell Physiology
2018-	Reviewer, American Journal of Physiology-Endocrinology and Metabolism
2018-	Reviewer, Journal of Applied Physiology
2017-	Reviewer, Journal of Cachexia, Sarcopenia and Muscle
2017-	Reviewer, International Journal of Exercise Science
2015-	Reviewer, Muscle and Nerve
2013-	Reviewer, Journal of Strength and Conditioning Research
2011	Reviewer, Journal of Sports Science and Medicine
2010	Reviewer, European Journal of Sport Science

Teaching

Undergraduate Courses

Florida Atlantic University

PET 3361 Nutrition in Health and Exercise

IDS 4934 Human Mission to Mars. (This was a new course developed and implemented with 10 other faculty members from across the University. The overall goal of the course was to use a human mission to mars as the impetus for solving problems using the scientific method, and increase scientific literacy.)

Florida State University	PET 3380C Applied Exercise Physiology Laboratory (6 semesters)
	PET 3323C Anatomy & Physiology II Laboratory (9 semesters)
Cal State Fullerton	KNES 146 Weight Training

Graduate Courses

Florida Atlantic University	PET 5930 Skeletal Muscle Plasticity in Exercise and Disease
	PET 5077 Seminar in Exercise and Aging

Grants and Fellowships

Funded

1. Advancing our understanding of hepatic metabolism in cancer cachexia. Khamoui AV (PI) Summer Undergraduate Research Fellowship, May 2019. Undergraduate mentee: Damian Ragoonanan. Amount: \$4,000
2. Defining the mechanisms of mitochondrial quality control to combat cancer cachexia. Khamoui AV (PI) Summer Undergraduate Research Fellowship, May 2017. Undergraduate mentee: Jessica Halle. Amount: \$4,000
3. Advancing FAU Pillars and Platforms through High-Resolution Tissue Respirometry. Khamoui AV (PI). Technology Fee Award, Florida Atlantic University. Amount: \$150,000. May 2017.
4. Individual Postdoctoral Fellowship. The Pulmonary Education and Research Foundation. \$44,000 plus fringe benefits/year for 2014-2016.
5. Florence Smith McAllister Endowed Fellowship. College of Human Sciences, Florida State University. Funded for 2011-2012 academic year. Amount: \$5,000.
6. Graduate Equity Fellowship. Office of Graduate Studies, California State University, Fullerton. Funded for 2008-2009 academic year. Amount: \$2,500.

Pending

1. Mitochondrial carrier proteins and energy metabolism in cancer cachexia. **Khamoui AV (PI)**, Visavadiya NP, and Fields GB. American Cancer Society, Research Scholar Grant #RSG CCE-135338. April 2020. Amount: \$785,827.

Not Funded

1. Small Animal Core for Multidisciplinary Research and Education (SACMRE). Mid-scale RI-1 (M1:IP), National Science Foundation. Gografe S, Linley S, Blakely R, and Toll L (Co-PIs). Amount: \$6 million. January 2019. **Role: Senior Personnel**
2. Crowdsourcing the genetic basis of healthy aging and individual success with diet and exercise. 1UL1 TR002550-01 Scripps Translational Science Institute. Nettles K (PI). Amount: \$50,000. May 2018. **Role: Translational Research Liaison.**
3. **Khamoui AV (PI).** Rehabilitation of skeletal muscle dysfunction in pulmonary arterial hypertension. 1F32HL131369. Ruth L. Kirschstein National Research Service Award (NRSA) Individual Postdoctoral Fellowship (Parent F32), PA-14-149, NIH. Submitted 04/2015. Amount: \$174,187. **Impact Score: 40**
4. Kim J-S (PI), Grant SC, Levenson CW, and Arjmandi BH. Lifelong behavior modifications to combat sarcopenic obesity. Parent RO1, PA-11-260, NIH. Submitted 06/2012. Amount: \$1,250,000. **Role: Administrative.**
5. Kim J-S (PI), Grant SC, Levenson CW, and Arjmandi BH. Exercise Countermeasure Strategies to Prevent Cancer Cachexia. American Cancer Society. RSG CCE-123801. Submitted 04/2012. \$733,618. **Role: Grant Writer.**

Chapters

1. Huang C-J, **Khamoui AV**, Slusher AL, Fico BG. Cardiovascular reactivity and stress. In: Handbook of Research Methods in Health Psychology. Ragin DF and Kennan JP (Eds.). Routledge Taylor and Francis Group. New York, NY. In press, 2020.
2. **Khamoui AV**, Zourdos MC, and Brown LE. Needs Analysis. In: Conditioning for Strength and Human Performance 3rd Edition. Chandler TJ and Brown LE (Eds.). Abingdon, OX, UK: Routledge, 2018.
3. Zourdos MC, **Khamoui AV**, and Brown LE. Resistance Training Prescription. In: Conditioning for Strength and Human Performance 3rd Edition. Chandler TJ and Brown LE (Eds.). Abingdon, OX, UK: Routledge, 2018.
4. Brown LE, **Khamoui AV**, and Jo E. Test Administration and Interpretation. In: Conditioning for Strength and Human Performance 2nd Edition. Chandler TJ and Brown LE (Eds.). Philadelphia, PA: Lippincott Williams & Wilkins, 2012.
5. Brown LE and **Khamoui AV**. Agility Training. In: NSCA's Guide to Program Design. Hoffman, JR (Ed.). Champaign, IL: Human Kinetics, 2012.

6. Coburn JW, Brown LE, Malek MH, and **Khamoui AV**. Cardiovascular System and Aerobic Exercise Prescription. In: Training the Physical Dimensions of Fitness: Guidelines for the Community of Madrid. Gutierrez, AJ (Ed.). Madrid, Spain: Panamericana, 2009.

Columns

1. Park B-S, **Khamoui AV**, Brown LE, Kim D-Y, Han K-A, Min K-W, and An G-H. Does disease duration influence the exercise training responses of patients with type 2 diabetes? *Journal of Research in Medical Sciences*. 20(1): 105-106, 2015. PMID: 25767532
2. **Khamoui AV**, Willardson JM, and Dawes J. Is training to failure a safe and effective method for improving athletic performance? *Strength and Conditioning Journal*. 33(4): 19-20, 2011.
3. Henning PC and **Khamoui AV**. The Army's combat-relevant physical fitness test: a look ahead. *Tactical Strength and Conditioning Report*, NSCA, Issue 15, October 2010.
4. Henning PC and **Khamoui AV**. Physical training strategies to improve soldier load carriage. *Tactical Strength and Conditioning Report*, NSCA, Issue 14, July 2010.
5. **Khamoui AV**, Jo E, and Brown LE. Postactivation potentiation and athletic performance. *Hot Topics Series*, NSCA, September 24, 2009.

Abstracts

1. Castro AJ, Pena GS, Paez HG, Halle JL, Visavadiya NP, Zourdos MC, Whitehurst MA, and **Khamoui AV**. Mitochondrial Ant2 and Ucp2 Expression in Mouse Liver during Colon-26 Tumor-Induced Cachexia. Annual Meeting, ACSM, Orlando, FL, May 28-June 1, 2019.
2. Juber M, Carzoli JP, Sousa CA, Belcher DJ, Helms ER, **Khamoui AV**, Whitehurst M, and Zourdos MC. The effects of eccentric duration on squat and bench press concentric performance. Annual Meeting, ACSM, Orlando, FL, May 28-June 1, 2019.
3. Halle JL, Pena GS, Paez HG, Carzoli JP, Zourdos MC, Whitehurst M, and **Khamoui AV**. Mitochondrial respiratory capacity and coupling control of skeletal muscle in colon-26 tumor-induced cachexia. Annual Meeting, ACSM, Minneapolis, MN, May 29-June 2, 2018.
4. Pena GS, Halle JL, Carzoli JP, Paez HG, Zourdos MC, Whitehurst M, and **Khamoui AV**. Time-dependent alterations in liver and adipose mitochondrial respiration during colon-26 cancer cachexia. Annual Meeting, ACSM, Minneapolis, MN, May 29-June 2, 2018.

5. **Khamoui AV**, Desai M, Ross MG, and Rossiter HB. Maternal obesity programs offspring muscle mitochondrial function: response to postweaning diet. Annual Meeting, ACSM, Boston, MA, May 31-June 4, 2016.
6. **Khamoui AV**, Abraham A, Reisz-Porszasz S, and Rossiter HB. Skeletal muscle mitochondrial function in high-fat diet fed mice with genetically modified myostatin expression. Experimental Biology, FASEB, San Diego, CA, April 2-6, 2016
7. **Khamoui AV**, Kim D-H, Yeh M-C, Park B-S, Oh S-L, Elam ML, Worts PR, Jo E, Myers CM, Arjmandi BH, Salazar G, McCarthy DO, and Kim J-S. Aerobic and resistance training effects on skeletal muscle plasticity in colon-26 tumor-bearing mice. Annual Meeting, ACSM, San Diego, CA, May 26-30, 2015.
8. Jo E, Ormsbee MJ, Cain A, Snyder K, Elam M, Yeh M-C, Worts P, **Khamoui AV**, Kim D-H, Prado CM, Smith D, Brown AF, Kim J-S. The clinical application of periodized resistance training during a 12-week hypocaloric treatment for obesity. Annual Meeting, ACSM, San Diego, CA, May 26-30, 2015.
9. Yeh M-C, Jo E, Worts P, Cain A, Elam M, **Khamoui AV**, Kim D-H, Ormsbee MJ, Prado CM, Smith D, Snyder K, Kim J-S. The clinical application of periodized resistance training during a 12-week hypocaloric treatment for obesity. Annual Meeting, SEACSM, Jacksonville, FL, February 12-14, 2015.
10. Kim D-H, **Khamoui AV**, Yeh M-C, Park B-S, Oh S-L, Elam ML, Worts P, Myers C, Jo E, Arjmandi BH, and Kim J-S. Effect of aerobic and resistance training on C26 tumor-induced cachexia. Annual Meeting, SEACSM, Jacksonville, FL, February 12-14, 2015.
11. Jo E, Cain A, Prado CM, Ormsbee MJ, Arjmandi BH, Snyder K, Smith D, **Khamoui AV**, Yeh M-C, Kim D-H, Park B-S, Oh Seung-Lyul, and Kim J-S. A single-center evaluation of a proprietary hypocaloric treatment for morbid obesity. Annual Meeting, ACSM, Orlando, FL, May 27-31, 2014.
12. Oh S, Lee S-R, **Khamoui AV**, Jo E, Park B-S, Ormsbee MJ, Kim D-H, Yeh M-C, and Kim J-S. Effects of CLA/n-3 and resistance training on muscle quality in middle-aged mice during high-fat diet. Annual Meeting, ACSM, Orlando, FL, May 27-31, 2014.
13. Lee S-R, Jo E, **Khamoui AV**, Park B-S, Zourdos MC, Panton LB, Ormsbee MH, and Kim J-S. Resistance training and CLA/n-3 administration improve myofiber size and myogenic capacity in high fat diet-fed mice. Experimental Biology, FASEB, Boston, MA, April 20-24, 2013.
14. Park B-S, Henning PC, **Khamoui AV**, Jo E, Lee S-R, Zourdos MC, Kim D-H, Yeh M-C, and Kim J-S. HMB attenuates a loss of myofiber cross-sectional area during prolonged exercise with calorie restriction by enhancing regenerative capacity. Experimental Biology, FASEB, Boston, MA, April 20-24, 2013.

15. Lee S-R, **Khamoui AV**, Jo E, Park B-S, Zourdos MC, Bakhshalian N, Grant SC, Arjmandi BH, Ormsbee MH, and Kim J-S. Anti-catabolic effects of CLA/n-3 in resting and loaded muscles of high fat diet-fed mice. Annual Meeting, ACSM, San Francisco, CA, May 29-June 2, 2012.
16. Kim J-S, Lee S-R, Jo E, **Khamoui AV**, Park B-S, Zourdos MC, Hooshmand S, Arjmandi BH, Ormsbee MJ, and Grant SC. Fatty acid intake and exercise improve body composition and functionality in high fat diet-fed mice. Annual Meeting, ACSM, San Francisco, CA, May 29-June 2, 2012.
17. Zourdos MC, **Khamoui AV**, Jo E, Park B-S, Lee S-R, Panton LB, Contreras RJ, Ormsbee MJ, Wilson JM, and Kim J-S. Changes in maximal strength with two different models of daily undulating periodization in trained powerlifters. Annual Meeting, ACSM, San Francisco, CA, May 29-June 2, 2012.
18. Jo E, Zourdos MC, Wilson JM, Nosaka K, Lee S-R, Naimo M, Henning PC, Park Y-M, **Khamoui AV**, Park B-S, Panton LB, and Kim J-S. Varying muscle-specific exercise between consecutive training sessions does not diminish the repeated bout effect. Annual Meeting, ACSM, San Francisco, CA, May 29-June 2, 2012.
19. Park B-S, Henning PC, Lee S-R, Wilson JM, Park Y-M, Jo E, **Khamoui AV**, Zourdos MC, and Kim J-S. β -hydroxy- β -methylbutyrate (HMB) improves myogenesis and maintains strength in male mice during a 6-week catabolic condition. Experimental Biology, FASEB, Washington, DC, April 9-13, 2011.
20. Gochioco MK, Brown LE, Coburn JW, Beam WC, Schick EE, Dabbs NC, **Khamoui AV**, Tran TT, and Munoz CX. A comparison of the physiological profiles of mixed martial artists and football, basketball, and baseball players. National Conference, NSCA, Orlando, FL, July 14-17, 2010.
21. Munoz CX, Tran TT, Brown LE, Coburn JW, Lynn SK, Dabbs NC, Gochioco MK, Schick EE, **Khamoui AV**, Uribe BP, and Noffal GJ. Effects of assisted jumping on relative impact force and descent velocity. National Conference, NSCA, Orlando, FL, July 14-17, 2010.
22. Tran TT, Brown LE, Coburn JW, Lynn SK, Dabbs NC, Gochioco MK, Schick EE, **Khamoui AV**, Uribe BP, and Noffal GJ. Effects of different levels of assisted jumping on peak velocity, takeoff velocity, and relative rate of force development. National Conference, NSCA, Orlando, FL, July 14-17, 2010.
23. Park Y-M, Lee S-R, Wilson JM, Henning PC, Bakhshalian N, Ugrinowitsch C, Zourdos MC, Park B-S, Jo E, **Khamoui AV**, and Kim J-S. Influence of β -hydroxy- β -methylbutyrate (HMB) on body composition and neuromuscular function in old rats during resistance training. Annual Meeting, ACSM, Baltimore, MD, June 2-5, 2010.
24. Lee S-R, Wilson JM, Henning PC, Ugrinowitsch C, Park Y-M, Zourdos MC, Park B-S, **Khamoui AV**, Jo E, Grant SC, Panton LB, and Kim J-S. β -hydroxy- β -methylbutyrate (HMB) improves relative grip strength and sensorimotor function in middle aged and old rats. Annual Meeting, ACSM, Baltimore, MD, June 2-5, 2010.

25. Schick EE, Coburn JW, Brown LE, Judelson DA, **Khamoui AV**, Tran TT, and Uribe BP. Comparison of 1RM strength and muscle activation between the smith machine and free weight bench press in experienced and inexperienced lifters. Annual Meeting, ACSM, Baltimore, MD, June 2-5, 2010.
26. Gochioco MK, Schick EE, Dabbs NC, **Khamoui AV**, Tran TT, Brown LE, Coburn JW, and Beam WC. Physiological profile of amateur mixed martial artists. Annual Meeting, ACSM, Baltimore, MD, June 2-5, 2010.
27. Tran TT, Brown LE, Coburn JW, Lynn SK, Dabbs NC, Gochioco MK, Schick EE, **Khamoui AV**, Uribe BP, and Noffal GJ. Effects of different levels of assisted jumping on vertical jump height and relative ground reaction force. Annual Meeting, ACSM, Baltimore, MD, June 2-5, 2010.
28. Lee S-R, Park Y-M, Wilson JM, Henning PC, Zourdos MC, Bakhshalian N, Ugrinowitsch C, Park B-S, **Khamoui AV**, Jo E, and Kim J-S. Effects of β -hydroxy- β -methylbutyrate (HMB) on body composition in old sprague-dawley female rats during 10-week resistance training. Annual Meeting, SEACSM, Greenville, SC, February 11-13, 2010.
29. **Khamoui AV**, Brown LE, Tran TT, Uribe BP, Nguyen D, Gochioco MK, Schick EE, Jo E, Coburn JW, and Noffal GJ. Comparison of methods to calculate vertical jump displacement. Annual Meeting, SEACSM, Greenville, SC, February 11-13, 2010.
30. Schick EE, Coburn JW, Brown LE, Judelson DA, **Khamoui AV**, Tran TT, and Uribe BP. Comparison of 1RM strength and muscle activation between the smith machine and free weight bench press in experienced and inexperienced lifters. Annual Meeting, SWACSM, San Diego, CA, October 23-24, 2009.
31. Gochioco MK, Tran TT, **Khamoui AV**, Uribe BP, Nguyen D, Brown LE, Coburn JW, Judelson DA, Noffal GJ. Effect of sex and relative force on vertical jump takeoff velocity and jump height. Annual Meeting, SWACSM, San Diego, CA, October 23-24, 2009.
32. Tran TT, **Khamoui AV**, Uribe BP, Nguyen D, Gochioco MK, Brown LE, Coburn JW, Judelson DA, and Noffal GJ. Influence of training status and potentiating exercise volume on vertical jump rate of force and velocity development. Annual Meeting, SWACSM, San Diego, CA, October 23-24, 2009.
33. Johnson T, Brown LE, Coburn JW, Judelson DA, **Khamoui AV**, Uribe BP, and Tran T. Effect of starting stance on sprint time in NAIA volleyball players. National Conference, NSCA, Las Vegas, NV, July 8-11, 2009.
34. Schick E, Coburn JW, Brown LE, Judelson DA, **Khamoui AV**, Tran T, Uribe BP, and Reyes C. A comparison of muscle activation between a smith machine and free weight bench press. National Conference, NSCA, Las Vegas, NV, July 8-11, 2009.

35. **Khamoui AV**, Nguyen D, Uribe BP, Tran T, Jo E, Brown LE, Coburn JW, Judelson DA, and Noffal GJ. Relationship between dynamic kinematics and isometric force-time characteristics. National Conference, NSCA, Las Vegas, NV, July 8-11, 2009.
36. Tran T, Faulkinbury KJ, Stieg JL, **Khamoui AV**, Uribe BP, Dabbs NC, Jo E, Brown LE, Coburn JW, and Judelson DA. Effect of 10 repetitions of box jumps and depth jumps on peak ground reaction force. National Conference, NSCA, Las Vegas, NV, July 8-11, 2009.
37. Dabbs NC, **Khamoui AV**, Nguyen D, Uribe BP, Tran T, Jo E, Brown LE, Coburn JW, Judelson DA, and Noffal GJ. Difference in vertical jump performance by force production. National Conference, NSCA, Las Vegas, NV, July 8-11, 2009.
38. Uribe BP, **Khamoui AV**, Tran T, Nguyen D, Dabbs NC, Brown LE, Coburn JW, and Judelson DA. Rate of velocity development positively correlates with quadriceps cross sectional area. National Conference, NSCA, Las Vegas, NV, July 8-11, 2009.
39. Uribe BP, **Khamoui AV**, Tran T, Nguyen D, Brown LE, Coburn JW, and Judelson DA. Sex differences in hamstring relative torque. Annual Meeting, ACSM, Seattle, WA, May 27-30, 2009.
40. **Khamoui AV**, Uribe BP, Nguyen D, Tran T, Brown LE, Coburn JW, Judelson DA, and Noffal GJ. Effect of potentiating exercise volume on vertical jump height and velocity. Annual Meeting, SWACSM, San Diego, CA, November 14-15, 2008.
41. Tran T, Nguyen D, Uribe BP, **Khamoui AV**, Brown LE, Coburn JW, and Judelson DA. Relationships between rate of force development, rate of velocity development, peak velocity, and ground reaction force. Annual Meeting, SWACSM, San Diego, CA, November 14-15, 2008.
42. Uribe BP, **Khamoui AV**, Nguyen D, Tran T, Brown LE, Coburn JW, Judelson DA, and Noffal GJ. Influence of training status and varied back squat volume on vertical jump impulse. Annual Meeting, SWACSM, San Diego, CA, November 14-15, 2008.
43. **Khamoui AV**, Uribe BP, Nguyen D, Brown LE, Coburn JW, and Judelson DA. Effect of potentiating exercise volume on vertical jump. 6th International Conference on Strength Training, Colorado Springs, CO, October 30-November 2, 2008.
44. Uribe BP, **Khamoui AV**, Nguyen D, Brown LE, Coburn JW, and Judelson DA. The effects of postactivation potentiation on power. 6th International Conference on Strength Training, Colorado Springs, CO, October 30-November 2, 2008.
45. **Khamoui AV**, Uribe BP, Coburn JW, Brown LE, and Judelson DA. Effect of surface stability on EMG frequency during upper body resistance exercise. National Conference, NSCA, Las Vegas, NV, July 9-12, 2008.

46. Uribe BP, Coburn JW, Brown LE, Judelson DA, and **Khamoui AV**. The effect of surface type on muscle activation when performing the chest press and shoulder press. National Conference, NSCA, Las Vegas, NV, July 9-12, 2008.

Certifications and Certificates

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| 2015 | Practicum on Exercise Testing and Interpretation, Harbor-UCLA Medical Center |
| 2006- | Certified Strength and Conditioning Specialist, NSCA |

Memberships

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| 2010- | The American Physiological Society |
| 2006- | National Strength and Conditioning Association |