
John A. Mercer, Ph. D.

University of Nevada, Las Vegas
Department of Kinesiology, School of Allied Health Sciences
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Education

- Ph.D. University of Oregon, Eugene, OR 1999
Biomechanics (concentration); Integrated Exercise Science (support area)
- M.S. University of North Texas, Denton, TX 1994
Exercise Physiology (major); Biology (minor)
- B.S. Buffalo State College of New York, Buffalo, NY 1986
Industrial Technology

Academic Experience

Associate Dean, School of Allied Health Sciences
University of Nevada, Las Vegas
2007 to present

Department Chair & Associate Professor, Department of Kinesiology
University of Nevada, Las Vegas
Chair: 2004 to 2007
Associate Professor: 2004 to present
Assistant Professor: 1999 to 2004

Visiting Instructor

Department of Exercise and Movement Science, University of Oregon (1999).

Graduate Teaching Fellow

Department of Exercise and Movement Science, University of Oregon (1995-99).

Laboratory Instructor

University of Oregon (1995-1999).

Teaching Fellow

Department of Kinesiology, University of North Texas (1992-94), Denton, TX.

Research

Peer Reviewed Papers

Masumoto, K., & **Mercer, J.A.** (2008). Biomechanics of human locomotion in water: An electromyography analysis. *Exercise and Sport Sciences Reviews*, 36(3), 160-169.

Dufek, J.S., **Mercer, J.A.**, *Teramoto, K.*, Mangus, B.C., & *Freedman, J.A.* (2008). Impact attenuation and variability during running in females: A lifespan investigation. *Journal of Sport Rehabilitation*, 17, 1-13.

Mercer, J.A., *Dolgan, J.*, *Griffin, J.*, & *Bestwick, A.* (2008). The physiological importance of preferred stride frequency during running at different speeds. *Journal of Exercise Physiology Online (JEPonline)*, 11(3), 26-32.

Mangus, B.C., Takahashi, M., **Mercer, J.A.**, Holcomb, W.R., McWhorter, J.W., & Sanchez, R. (2006). Investigation of vertical jump performance after completing heavy squat exercises. *Journal of Strength and Conditioning Research*, 20(3), 597-600.

Mercer, J.A., *DeLion, D.*, *Bezodis, N.*, *Zachry, T.*, & *Rubley, M.* (2006). EMG sensor location: Does it influence the ability to detect differences in muscle contraction conditions? *Journal of Electromyography and Kinesiology*, 16, 198-204.

Johnson, S.T., Golden, G.M., **Mercer, J.A.**, Mangus, B.C., & Hoffman, M.A. (2005). Ground-Reaction forces during form skipping and running. *Journal of Sport Rehabilitation*, 14(4), 338-345.

Mercer, J.A., *Bezodis, N.E.*, *Russell, M.*, *Purdy, A.*, *DeLion, D.* (2005). Kinetic consequences of constraining running behaviour. *Journal of Sports Science and Medicine*, 4, 144-152.

Zachry, T., Wulf, G., **Mercer, J.**, & *Bezodis, N.* (2005). Increased movement accuracy and reduced EMG activity as the result of adopting an external focus of attention. *Brain Research Bulletin*, 67, 304-309.

Mercer, J.A., *Groh, D.*, *Black, D.*, *Gruenenfelder, A.* (2005). Technical note: Quantifying muscle activity during running in the water. *Aquatic Fitness Research Journal*, 2(1), 9-15.

Wallmann, H.W., **Mercer, J.A.**, & McWhorter, J.W. (2005). Surface electromyographic assessment of the effect of static stretching of the gastrocnemius on vertical jump performance. *Journal of Strength and Conditioning Research*, 19(3), 684-688.

Vance, J., Wulf, G., McNevin, N., Tollner, T., & **Mercer, J.** (2004). EMG activity as a function of the performer's focus of attention. *Journal of Motor Behavior*, 36(4), 450-459.

Derrick, T.R., & **Mercer, J.A.** (2004). Ground/foot impacts: Measurement, attenuation, and consequences. *Medicine and Science in Sports and Exercise*, 36(5), 830-831.

Wulf, G., **Mercer, J.**, McNevin, N., & Guadagnoli, M.A. (2004). Reciprocal influences of attentional focus on postural and suprapostural task performance. *Journal of Motor Behavior*, 36(2), 189-199.

Mercer, J.A., Branks, D.A., Ross, C., & Wasserman, S. (2003). Physiological cost of running while wearing spring-boots. *Journal of Strength and Conditioning Research*, 17(2), 314-318.

Mercer, J.A., Bates, B.T., Dufek, J.S., & Hreljac, A. (2003) Characteristics of shock attenuation during fatigued running. *Journal of Sport Sciences*, 21(11), 911-919.

Mercer, J.A., DeVita, P., Derrick, T.R., & Bates, B.T. (2002). The individual effects of stride length and stride frequency changes on shock attenuation during running. *Medicine and Science in Sports and Exercise*, 35(2), 307-313.

Mercer, J.A., Vance, J., Hreljac, A., & Hamill, J. (2002) Relationship between shock attenuation and stride length during running at different velocities. *European Journal of Applied Physiology*, 87, 403-408.

Mercer, J.A., and Vance, J. (2002). Put to the test: Spring-boots can reduce impact in runners. *Biomechanics Magazine*, 9(5), 67-77.

Hreljac, A., Arata, A., Ferber, R., **Mercer, J.A.**, Row, B.S. (2001). An electromyographical analysis of the role of dorsiflexors on the gait transition during human locomotion. *Journal of Applied Biomechanics*, 17(4).

Osternig, L.R., Ferber, R., **Mercer, J.A.**, & Davis, H. (2001). Effects of position and speed on joint torques and knee shear after ACL injury. *Medicine and Science in Sports and Exercise*, 33(7), 1073-1080.

Mercer, J.A., Dufek, J.S., & Bates, B.T. (2001). Analysis of peak oxygen consumption and heart rate during elliptical and treadmill exercise. *Journal of Sport Rehabilitation*, 10(1), 48-56.

Osternig, L., Ferber, R., **Mercer, J.**, & Davis, H (2000). Human hip and knee torque accommodations to anterior cruciate ligament dysfunction. *European Journal of Applied Physiology*, 83(1), 71-76.

Mercer, J.A. & Jensen, R.L. (1998). Heart rates at equivalent submaximal levels of VO_2 do not differ between deep water running and treadmill running. *Journal of Strength and Conditioning Research*, 12(3), 161-165.

Mercer, J.A. & Jensen, R.L (1997). Reliability and validity of a deep water running graded exercise test. *Measurement in Physical Education and Exercise Science* 1(4), 213-222.

Dufek, J.S., **Mercer, J.A.**, Kosta, C.S., & Fish, D. (1997). Metabolic cost during submaximal walking with a rigid rotational control ankle foot orthosis: A preliminary investigation. *Journal of Prosthetics & Orthotics*, 9(4), 146-150.

Abstracts and Presentations (student names are italicised)

Mercer, J., Dufek, J., *Bhanot, K., Freedman, J., House, A., Griffin, J., Rubley, M., & Mangus, B.* (2007). Shock attenuation for children running on a treadmill and overground. Proceedings of the 58th NATA Annual Meeting and Clinical Symposium, p43.

Tritsch, A., Rubley, M., Dufek, J., **Mercer, J.**, & Neumann, E. (2007). Tibial rotation and valgus movement at the knee during cutting and stopping. Proceedings of the 58th NATA Annual Meeting and Clinical Symposium, p35.

Bhanot, K., Mercer, J.A., Dufek, J.S. (2007). Effect of change in running speeds on shock attenuation among children. *Medicine and Science in Sports and Exercise*, 39(5), s475.

Freedman, J.A., Dufek, J.S. and Mercer, J.A. (2007). Footstrike patterns during barefoot running. *Medicine and Science in Sports and Exercise*, 39(5), s151.

Griffin, J.R., Mercer, J.A. and Dufek, J.S. (2007). Kinematic comparison of running barefoot and in the Nike Free 5.0. *Medicine and Science in Sports and Exercise*, 39(5), s73.

Mercer, J.A., Dufek, J.S., *Bhanot, K., Freedman, J.A, House, A.J, Aldridge, J., Rubley, M.D., and Mangus, B.C.* (submitted). Shock attenuation characteristics for children running. National Athletic Trainers Association Meeting, St. Louis, MO, June 2008.

Teramoto, K., Dufek, J.S., & Mercer, J.A. (2006). The effects of local muscle fatigue on shock attenuation for female runners. Proceedings for the 2006 National Meeting for the American Society of Biomechanics.

Bhanot, K. Mercer, J.A., Dufek, J.S., Freedman, J.A., House, A.J., Griffin, J.R. (2006). Effect of Change in Running Speeds on Shock Attenuation among Children. Proceedings of the 2006 Annual meeting for the Southwest Chapter of the American College of Sports Medicine.

Freedman, J.A., Teramoto, K., Dufek, J.S., Mangus, B.C., & Mercer, J.A. (2006). Shock Attenuation Characteristics in Females Across the Lifespan. Proceedings for the 2006 Annual Meeting for the Southwest Chapter of the American College of Sports Medicine.

Griffin, J.R., Mercer, J.A., Dufek, J.S. (2006). Preliminary Analysis of the Kinematic Comparison of Running Barefoot and in the Nike FREE 5.0 on a Treadmill. Proceedings for the 2006 Annual Meeting for the Southwest Chapter of the American College of Sports Medicine.

Griffin, J.R., Dufek, J.S., & Mercer, J.A. (2006). Surface variations alter the prediction of shock attenuation for female runners. *Medicine and Science in Sports and Exercise*, 38(5), s122-s123.

Teramoto, K., Dufek, J.S., & Mercer, J.A. (2006). Impact variability among skilled female volleyball players. *Medicine and Science in Sports and Exercise*, 38(5), s267.

Teramoto, M., Mercer, J.A., & Golding, L.A. (2006). Muscle contraction during vascular

occlusion: Effect on muscle activity. *Medicine and Science in Sports and Exercise*, 38(5), s290.

Griffin, J.R., Dufek, J.S., Mercer, J.A., Teramoto, K., DeLion, D., & Bestwick, A. (2005). Lower extremity geometry as a predictor of shock attenuation during running. Proceedings for the Southwest American College of Sports Medicine Annual Meeting.

Melcher, G., Griffin, J.R., Teramoto, K., Dufek, J.S., & Mercer, J.A. (2005). The effects of speed and surface stiffness on shock attenuation for male runners. Proceedings for the Southwest American College of Sports Medicine Annual Meeting.

Neumann, E.S., Mercer, J.A., Dufek, J.S., DeLion, D., & Griffin, J. (2005). An examination of prosthetic malalignment using motion capture. Proceedings for the 2005 Annual Meeting of the American Orthotic & Prosthetic Association.

Teramoto, M., Mercer, J.A., & Golding, L.A. (2005). Muscle contraction during vascular occlusion: Effect on muscle activity. Proceedings for the Southwest American College of Sports Medicine Annual Meeting.

Teramoto, K., Griffin, J.R., Dufek, J.S., & Mercer, J.A. (2005). The effects of speed and surface stiffness on shock attenuation for female runners. Proceedings for the Southwest American College of Sports Medicine Annual Meeting.

*Zachry, T., Wulf, G., & Mercer, J.A. (2005). Increased movement accuracy and reduced EMG activity in response to an external focus of attention. *Medicine and Science in Sports and Exercise*, 37(5), s396.*

*Zachry, T.L., Wulf, G., Mercer, J.A., Bezodis, N., DeLion, D. (2005). The effect of internal versus external focus of attention on EMG activity during basketball free throws. *Medicine and Science in Sports and Exercise*, 37(5).*

Mercer, J.A. FACSM, *Bezodis, N., Russell, M., Purdy, A., & DeLion, D. (2004). Influence of stride length and running velocity on impact characteristics. Annual meeting of the South West Chapter of the American College of Sports Medicine.*

Dolgan, J.A., Moore, D., Zardnt, J., Mercer, J.A. FACSM, & Golding, L.A. FACSM (2004). Influence of speed and stride frequency on oxygen consumption. Annual meeting of the South West Chapter of the American College of Sports Medicine.

Bezodis, N.E., DeLion, D., Zachry, T. & Mercer, J.A. FACSM (2004). Do differences in electrode placement on a muscle affect study outcome? Annual meeting of the South West Chapter of the American College of Sports Medicine.

Zachry, T.L., Wulf, G., Mercer, J.A., Bezodis, N., DeLion, D. (2004). The effect of internal versus external focus of attention on EMG activity during basketball free throws. Annual

meeting of the South West Chapter of the American College of Sports Medicine.

Mercer, J.A., Groh, D., Black, D., Gruenenfelder, A. (2004). Environmental influences on magnitude of lower extremity muscle activity during running. *Medicine and Science in Sports and Exercise*, 36(5), s179.

Hines, B. and **Mercer, J.A.** Comparison of shock attenuation between overground and treadmill running (2004). *Medicine and Science in Sports and Exercise*, 36(5), s293-294.

Hines, B. and **Mercer, J.A.** Comparison of shock attenuation between overground and treadmill running (2003). Proceedings for the Annual meeting of the South West Chapter of the American College of Sports Medicine.

Purdy, A., Clark, T., Eddington, A., Hines, B., Mercer, J. Influence of spring boots on optimization criteria during running. (2003). Proceedings for the Annual meeting of the South West Chapter of the American College of Sports Medicine.

Gruenenfelder, A., Black, D., Mercer, J.A., Dufek, J.S. (2003). Kinetic consequences to increased trunk mass during landing. *Medicine and Science in Sports and Exercise*, 35, s265.

Mercer, JA, Black, D., Gruenenfelder, A., Lee, H., Velasco, G., Lum, E. (2002) Lower extremity muscle activity patterns during running in the water, on land and cycling. Biomechanics Invitational, University of Nevada, Las Vegas.

Boersma, H., Mercer, J., Varon, M., Young, J.C. (2002). Prediction of performance time on a treadmill stress test following a Bruce protocol. *Medicine and Science in Sports and Exercise*, 34(5), abstract #23.

Branks, D.A., Ross, C., Wasserman, S., & Mercer, J.A. (2002). Energy cost of spring boot and in-shoe running. *Medicine and Science in Sports and Exercise*, 34(5), abstract #1440.

Derrick, T.R., **Mercer, J.A.**, Hardin, E.C., van Bogert, A.J., & Hreljac, A. (2002). Ground/Foot impacts: measurement, attenuation, and consequences. *Medicine and Science in Sports and Exercise*, 34(5), abstract #490.

Gruenenfelder, A.R., Branks, D.A., Mangus, B., Mercer, J.A., Kwantes, J., & Reid, M. (2002). Head accelerations during soccer ball heading: Influence of soccer ball type, size and inflation pressure. *Medicine and Science in Sports and Exercise*, 34(5), abstract #188.

Osternig, L., Ferber, R., **Mercer, J.**, & Davis, H. (2002). Effect of anterior cruciate ligament surgery on lower extremity torques and knee shear. *Medicine and Science in Sports and Exercise*, 34(5), abstract #579.

Vance J., & Mercer, J.A. (2002). Stride Length, leg and head acceleration during spring-boot running. *Medicine and Science in Sports and Exercise*, 34(5), abstract #28.

Branks, D.A., Ross, C., Wasserman, S., & Mercer, J.A. (2001). Energy cost of spring boot and in-shoe running. Annual meeting of the Southwest chapter of the American College of Sports Medicine.

Chen, S.J., **Mercer, J.A.**, & Gielo-Perczak, K. (2001). Effects of arch support on changes in arch height and center of pressure under different foot positions while loading. Proceedings for the 25th Annual Meeting of the American Society of Biomechanics, p353.

Mercer, J.A., *Black, D., Branks, D., & Hreljac, A.* (2001). Stride length effects on ground reaction forces during running. Proceedings for the 25th Annual Meeting of the American Society of Biomechanics, p305.

Vance, J., & Mercer, J.A. (2001). Impact forces during running in a novel spring boot. Proceedings for the 25th Annual Meeting of the American Society of Biomechanics, p109.

Mercer, J.A., *Vance, J., Hreljac, A.* (2001). Attenuation of leg impacts during high speed running. *Medicine and Science in Sports and Exercise*, 33(5), s43.

Kwantes, J., Rasmussen, M., Mercer, J.A., Hoffman, M., & Osternig, L.R. (2001). Force velocity relationship of muscle contraction during slow eccentric isokinetic velocities. *Medicine and Science in Sports and Exercise*, 33(5), s294.

Padilla, J.N., Mercer, J.A., Hreljac, A., & Osternig, L.R. (2001). Lower extremity EMG for an experienced runner during deep water running. *Medicine and Science in Sports and Exercise*, 33(5), s315.

Reid, M.N., Mercer, J.A., Mangus, B.C., Dufek, J.S. (2001). Ground reaction force characteristics of a drop-jump performed barefoot and with shoes. *Medicine and Science in Sports and Exercise*, 33(5), s239.

Bates, B.T., Stergiou, N., **Mercer, J.A.**, & Dufek, J.S. (2000). Tutorial: Single subject research: The how's and why's. Presented at the 2000 Annual meeting of the American Society of Biomechanics.

Cardillo, C.M., & Mercer, J.A. (2000). Ground reaction forces during a 30-minute walk carrying a 120 N daypack. Annual meeting of the Southwest Regional Chapter of the American College of Sports Medicine.

Hoffman, M.A., Yoshida, G.J., Branks, D.A., **Mercer, J.A.** (2000). The effects of performing a cognitive math task on Hoffmann Reflex amplitude. *Medicine and Science in Sports and Exercise*, 32(5), s281.

Hreljac, H., Arata, A., Chen, S.J., Ferber, R., Keller, T.L., **Mercer, J.A.**, & Row, B.S (1999). Neurological consideration of the gait transition in humans. Proceedings of the International Society of Biomechanics XVIIth Congress, 231.

Kwantes, J., Rasmussen, M., Mercer, J.A., Hoffman, M., & Osternig, L.R. (2000). Force velocity relationship of muscle contraction during slow eccentric isokinetic velocities. Annual meeting of the Southwest Regional Chapter of the American College of Sports Medicine.

Osternig, L., Ferber, R., **Mercer, J.**, & Davis, H. (2000). Effects of velocity and joint position on hip and knee torque and anterior tibial shear in presurgical ACL deficient and postsurgical subjects. *Medicine and Science in Sports and Exercise*, 32(5), s222.

Reid, M.N., Mercer, J.A., Mangus, B., & Dufek, J.S. (2000). Ground reaction force characteristics of a plyometric activity on different surfaces. Annual meeting of the Southwest Regional Chapter of the American College of Sports Medicine.

Mercer, J.A., DeVita, P., Derrick, T.R., & Bates, B.T. (1999). Shock attenuation during running at different stride lengths and frequencies. *Proceedings of the International Society of Biomechanics XVIIth Congress*, 434.

Mercer, J.A., Dufek, J.S., & Bates, B.T. (1999). Shock attenuation during running before and after a graded exercise test. *Proceedings of the International Society of Biomechanics XVIIth Congress*, 762.

Mercer, J.A., Hreljac, A., Dufek, J.S., & Bates, B.T. (1999). Peak leg and head accelerations during running following isolated quadriceps fatigue. *Medicine and Science in Sports and Exercise*, 31(5), s189.

Wiley, R.M., **Mercer, J.A.**, Chen, S.J., & Bates, B.T. (1999). Peak VO₂ and HR during treadmill running and simulated running on an elliptical trainer. *Medicine and Science in Sports and Exercise*, 31(5), s158.

Mercer, J.A., Dufek, J.S., Hreljac, A., & Bates, B.T. (1999). Effects of quadriceps and system fatigue on impact shock attenuation. Presented at the Northwest Chapter of the American College of Sports Medicine annual meeting.

Eisenberg, L.E., Gilbaugh, S.M., **Mercer, J.A.**, Dufek, J.S., Hreljac, A., & Bates, B.T. (1999). Treadmill surface stiffness effects on leg and head accelerations during running. Presented at the Northwest Chapter of the American College of Sports Medicine annual meeting.

Mercer, J.A., Kindling, L. A., Arata, A.W., Hreljac, A., Dufek, J.S., & Bates, B.T. (1998). The effect of the quadricep and hamstring fatigue during running. *Proceedings of the Third North American Congress on Biomechanics*, 339-340.

Mercer, J.A., James, C.R., Zhang, S., Dufek, J., & Bates, B.T. (1998). Single subject analysis of landing strategies. *Medicine and Science in Sports and Exercise*, 30(5), s125.

Dufek, J.S., **Mercer, J.A.**, Kosta, C.S., & Fish, D. (1996). Efficacy of a tri-Planar rigid AFO for walking: A case study. *Proceedings of the 9th Biennial Conference and Symposia of the Canadian Society for Biomechanics*, 226-7.

Mercer, J.A. & Jensen, R.L. (1996). Submaximal heart rates do not differ during deep water running and treadmill running at equivalent VO_2 . *Medicine and Science in Sports and Exercise*, 27(5), s210.

Mercer, J.A., Jensen, R.L., & Fromme, C.F. (1995). The relationship between heart rate and oxygen uptake during deep water and treadmill running. *Medicine and Science in Sports and Exercise*, 27(5), s244.

Mercer, J.A., Jensen, R.L., & Fromme, C.F. (1994). Prediction of exercise prescription for deep water running (DWR) based on treadmill running (TM). *Medicine Science in Sports and Exercise*, 26(5), s10.

Other work

Mercer, J.A. (2000). Biomechanics Handbook. Written specifically for undergraduate and graduate biomechanics courses.

Mercer, J.A. (2002). Instrumentation Handbook. Written specifically for Research Techniques in Biomechanics course.

Professional Services

Reviewer for the following journals

- European Journal of Applied Physiology
- Medicine and Science in Sports and Exercise
- Journal of Biomechanics
- ACSM's Health and Fitness Journal
- Research Quarterly for Exercise and Sport

Textbook reviewer for the following publishers

- Human Kinetics
- Allyn & Bacon
- McGraw-Hill

Judge for the Graduate Student Associate 2nd Annual Meeting

Chair of Motor Control Search Committee for Department of Kinesiology.

Judge for Nevada Regional Science Fair, 2000.

College of Health Science Research Award committee, 2000.

Biomechanics Search Committee, University of Oregon 1998.

Distance Learning Committee, Am.College of Sports Medicine (ACSM), 1998-2005.

National and Regional Student Affairs Committee of ACSM, 1997-1999.

Northwest regional chapter of ACSM student representative, 1996-1999.

Honors

Teaching Award, awarded by College of Health Science 2002.

Graduate Student Commencement Speaker, University of Oregon, 1999.

Graduate Student Poster Award (Doctoral), 1999 NWACSM meeting

Outstanding Teaching Fellow for the Department of Kinesiology, U. of N. Texas, 1994.

Kissenger award for outstanding leadership, swimming accomplishments, and effort as a member of the Buffalo State College swim team, 1986.

Professional Memberships

American College of Sports Medicine 1995-present
 International Society of Biomechanics 1997-present
 International Society of Biomechanics in Sport 2000-present
 South West Chapter of ACSM 2000-present

Funding

- Mercer, J.A. (2008). Biomechanics of running at reduced body weight. Alter-G, Inc.(equipment loan: \$75,000).
- Mangus, B.C., Dufek, J.S., Wallmann, H., Mercer, J.A., Schuerman, S. (submitted). Efficacy of retro-locomotion as an intervention to alleviate low back pain. School of Health and Human Sciences Research Award.
- Mercer, J.A., Mangus, B.C., Rubley, M.R., & Dufek, J.S. (2006). Shock attenuation in children runners. National Athletic Trainers' Association. (Amount funded: \$25,163).
- Mercer, J.A., Dufek, J.S., Mangus, B.C., Miller, S., Altenburger, P.A., & Tarno, J. (2005). Neuromuscular function during water locomotion for persons with rheumatic disease. NIH (requested: \$219,398).
- Wallmann, H., Dufek, J.S., Mercer, J.A., & Schuerman, S. (submitted). Retro-locomotion as a clinical intervention for low back pain. Foundation for Physical Therapy (requested: \$39,367).
- Mercer, J.A., Dufek, J.A., & Mangus, B. (2005). Effect of maturation on impact attenuation characteristics during running in females. Center of Excellence in Women's Health (Amount funded: \$15,500).
- Mercer, J.A., Mangus, B., & Dufek, J.S. (2005). Lower extremity coordination patterns during running in a simulated microgravity environment. NASA EPSCoR (requested: \$34,613, not funded).
- Mangus, B., Dufek, J.S., Mercer, J.A., Wilson, K., & Krum, L. (2005). Etiology of knee joint laxity: Gender considerations. Stimulation, Implementation, Transition and Enhancement. Amount funded: \$6,355.
- Mercer, J.A. & Neumann, E. (2003) Motion Capture Equipment Grant. \$170,000.
- Mercer, J.A. (2002) Graduate College McNair Grant. \$500.
- Mercer, J.A. (2002) Center for Academic Enrichment and Outreach Grant. \$500.
- Neumann, E., & Mercer, J.A. (2002): Applied Research Initiative: Development of PC-Based Interactive Biomedical Tools for Gait Evaluation. Amount funded: \$31,933.
- Purdy, A., Mercer J.A. advisor (2002). Undergraduate Research Initiative Award: To support research and travel to professional conference. Amount funded: \$1000.
- Mercer, JA. (2001): Stimulation, Implementation, Transition and Enhancement: Muscle activity patterns during deep water running. Amount funded: \$4955.
- Mercer, J.A. (2001): New Investigator Award: Mechanisms of Shock Attenuation. Amount funded: \$9,960.
- Guadagnoli, M., Mercer, J., Rasmussen, C., Rieber, C.: Planning Initiative Award (2001): Biomedical Sciences Research and Teaching Consortium. \$30,000.
- Rudin, M., Bowles, C., Kruskall, L., LaPorta, L., & Mercer, J.: Planning Initiative Award (2001): Acquisition of a DEXA Scanner. \$30,000.
- Mercer, J.A. Graduate College McNair Grant (2001). \$500.

- Mercer, J.A. Center for Academic Enrichment and Outreach Grant. \$575.
- Guadagnoli, M. A. & Mercer, J.A. (2000). The art and science of scholarship: Workshop and travel. Amount funded \$5,000.00. UNLV Alumni Associate Student Centered Grant
- Mercer, J.A., Equipment Grant (2000): Kangoo Jumps, Inc. \$600.
- Mercer, J.A., Equipment Grant (2000): BioDynamics Foundation.
- Mercer, J.A., Journal donation (2000): BioDynamics Foundation.
- Mills, P.J., & Mercer, J.A., Undergraduate Research Grant (1999). \$1000.
- Mercer, J.A., Equipment Grant, Excell Sport Science (1995, 1998). \$200.
- Mercer, J.A., Speaker Grant, Gatorade Sport Science, Inc. (1997, 1998). \$1000.