

Department of Health, Human Performance and Recreation



Spring 2018

From the Department Head

This July will mark my first year as Department Head. What I have learned has reaffirmed what I already knew; we have great faculty, staff and students.



Matt Ganio

It has been a pleasure to get to know everyone in our department and all of the great work they do. We have faculty who are dedicated to their jobs and students who are equally dedicated to the educational process. Our staff are unwavering in their support to make this department run smoothly. I would be remiss if I did not acknowledge the prior department heads for the support they have provided me in this role. I truly thank each and every one for their support and dedication to this department.

In this period of transition, we were provided an opportunity to reflect on various aspects of this department. We took the last six months or so to examine the administrative staff roles. That led to a promotion for Shari Witherspoon to Administrative Support Supervisor and overseeing our Faculty Support Services. We have hired Joe Hamilton to oversee Student Support Services (see New Faces section) and Rochelle Allen for Financial Support Services. I am also excited to announce that

Dr. Michelle Gray is our new Exercise Science Research Center Director, and Dr. Stephen Dittmore has continued his role as Assistant Department Head. As we collectively serve as the administrative team for HHPR, we are committed to the success of our faculty and students; let us know what we can do to support you.

In this new annual newsletter, we have highlighted various aspects of our departmental successes. As we culminated these, we soon realized that we have too many to list in any one newsletter, so my apologies for not being able to highlight everything.

In 2017, our department taught 223 sections of classes, and amazingly the average of the teaching scores used for evaluation was 4.62 ± 0.38 ! Our online Masters in Physical Education program was recently ranked No. 2 in the nation, which is a true testament to dedication and ability to excel in an evolving educational landscape. See our Teaching Spotlight section below for more details.

In 2017, our faculty obtained **\$731,772** in research grants. We have listed individual external grants at the end of this newsletter; for space reasons we could not include the internal funding sources (which totaled \$137,998). However, it should be noted that the University of Arkansas continues to provide many opportunities for seed funding that

keeps our research progressing. Of note, Dr. Nicholas Greene obtained a federally funded grant from the National Institutes of Health as Principal Investigator. See our Research Spotlight section below for details. Our faculty published 68 peer-reviewed publications in 2017. Congrats to all of our faculty for their research successes!

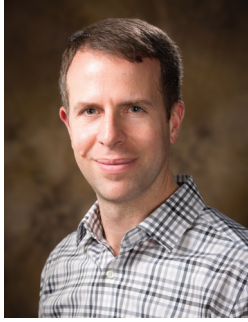
In this coming year, we are focusing on engagement. You will see us highlighting the already great work we do in this area while also encouraging initiatives that increase engagement. This includes engagement at all levels, including, but not limited to, our students, alumni, faculty emeriti, and all of our retirees. We also can't forget how being engaged in our university and community as a whole is critical to moving forward. For example, did you know that in 2017 we had 378 students engaged in internship, practicum and clinical experiences at 176 different community partners, providing over 89,000 hours of service? This exemplifies how our university is not only giving back to our community, but how our community is critical to the educational process.

I am already excited for how 2018 is turning out to be. I look forward to continuing to facilitate and advocate for the great work that our faculty, staff and students are doing. Keep up the great work!

New Faces

Joshua J.

Lens earned a Juris Doctor degree from the University of Iowa College of Law in 2005 and a bachelor's degree in economics with minors



in history and sociology from the University of Northern Iowa in 2002. He formerly served as assistant athletic director of compliance at Baylor University. His teaching interests include sports law, sports management, sports risk management, legal and political issues in sports, NCAA policies and procedures, organization of college athletic departments, organization of amateur athletics, college athletics governance and sports economics. Lens formerly practiced law with the firm of Brown & James, P.C., in St. Louis.

Robert E.

Davis earned a doctorate in health and kinesiology in 2017, a master's degree in health promotion in 2015 and a bachelor's degree in



exercise science in 2012, all from the University of Mississippi School of Applied Science. His research focuses on biopsychosocial determinants of behavior, health behavior theory, prescription drug misuse and abuse and objectively assessed physical activity. He won the Kevser Ermin Professional Development Award from the University of Mississippi in 2016 and worked at both the Center for Health Behavior Research and the Applied Physical Epidemiology Laboratory. Davis has published numerous articles on his research and serves as a peer reviewer for several publications.

Joe Hamilton

was most recently park interpreter at Lake Fort Smith State Park and is a graduate of the University of Arkansas at Fort Smith historical interpretation



program. He graduated *cum laude* in 2009. He is a published writer with articles in the *Journal of the Fort Smith Historical Society* and has presented at the National Association for Interpretation. He also enjoys history, kayaking, filmmaking, travel and playing guitar. He is a member of the Arkansas Arts Council-affiliated band The Boss Tweeds, with whom he has written and recorded two CDs of original material.

Teaching Spotlight



The University of Arkansas master's degree in physical education, which is delivered online, was recently ranked No. 2 on a listing of best online master's degree programs in physical education by a company called Early Childhood Education Degrees.

The U of A program was listed second after the University of Nebraska. Three components were used to determine the rankings, each making up one-third of an institution's score, according to the website: affordability, flexibility and academic prestige.

The College of Education and Health Professions began offering the master of education in physical education degree online in 2008 through the university's Global Campus. It is a cohort program that can be completed in two years by taking six credit hours of classes per semester, including summer.

Research Spotlight



Nicholas Greene, University of Arkansas assistant professor of exercise science, has received a \$412,668 grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases of the National Institutes of Health to study ways to prevent muscle atrophy, which accompanies many diseases, impairing body function

and hastening death.

"We know that 20 to 40 percent of deaths from cancer are directly related to cachexia (muscle wasting that accompanies cancer)," Greene said. "If a person with cancer can maintain the rest of the body health, including preventing muscle wasting, their chance of survival is better."

The three-year grant is intended to enhance the exposure of students to biomedical research.

Grant Award Winners

In 2017, we began what we hope to be an annual grant process that provides research money for our graduate students as they work to complete their degrees. Below are winners, along with the titles of their projects. Congrats to all the winners!

- Megan Rosa-Caldwell – *Autophagy Activation as a Novel Regulator for Improved Glucose Handling during Insulin Resistance*
- Mary Hunt – *Shifting Abortion Attitudes using an Empathy-based Media Intervention: A Randomized Control Study*
- Aaron Caldwell – *Practical Interventions to Improve Arterial Dysfunction Associated with Long-Duration Sitting*

- Joshua Gills – *Validation of a Web-based 5-minute Eye-tracking Test among Adults with Mild Cognitive Impairment and/or Alzheimer's disease*
- Megan Turk – *A Case Study: Inclusion of Student-Athletes who Identify as Sexual Minority at an NCAA Division I Institution*
- Natalie Bird – *Factors Associated with Helmet Use among Scooter Drivers on the University of Arkansas Campus*
- Virginia Hardgraves – *Older Adults' and Family Attitudes, Expectations, and Knowledge of Oral Health Issues in Arkansas Seniors*
- Brooke Bouza – *Chronic Endurance Exercise and Sexual Function in Female Adults*

College of Education and Health Professions Faculty Awards

Dr. Kaitlin Gallagher received the 2016-2017 Rising STAR Award.

Dr. Nicholas Greene received the 2017-2018 Significant Research Award.

Dr. Sarah Stokowski received the 2017-2018 Innovative Teaching Award.

2017-2018 Departmental Faculty Awards

Outstanding Service - Paul Calleja
Outstanding Research - Nicholas Greene
Outstanding Overall Faculty Member - Nicholas Greene
Outstanding Advising - Madelyn Jones
Outstanding Alumni - Mark O'Neal
Outstanding Teaching - Amanda Sullivan

2017-2018 Faculty & Student Kudos

Dr. Paul Calleja was promoted to full Clinical Professor.
Drs. Steve Dittmore, Bart Hammig and Cathy Lirgg were promoted to full Professor.

Dr. Michelle Gray became a Teaching Academy Fellow.
Dr. Brendon McDermott became a Fellow of the American College of Sports Medicine.

Dr. Amanda Sullivan was promoted to Associate Clinical Professor.

Brendan Cook and Kate Turver were selected as Seniors of Significance.

2017-2018 Departmental Student Awards

Undergraduate

Public Health

Rachele Reynolds

Kinesiology-Exercise Science

Malik Allen

Kinesiology-K-12 Teaching

Emily Floyd

Recreation and Sport Management

Hailey Hurst

Master's

Community Health Promotion

Lancina Doumbia

Kinesiology-Exercise Science

Sam Mohler

Physical Education

Garrett Stephens

Recreation and Sport Management

Alexyss Scott

Athletic Training

Mariellen Veach

Ph.D.

Community Health Promotion

Tiffany Marcantonio

Kinesiology-Exercise Science

Cory Butts

Kinesiology-Physical Education

Maryann Mitts

Recreation and Sport Management

Megan Turk

2017-2018 Departmental Alumni Award

Mark O'Neal is director of medical operations for the Chicago Cubs since 2004 and a 1990 graduate of the University of Arkansas athletic training program. He has represented the field of athletic training in baseball at the collegiate, Olympic and professional levels. He currently serves as the president of the Professional Baseball Athletic Trainers Society, and he chairs Major League Baseball's Medical Advisory Board and specializes in drug prevention programs. He has previously guest lectured to the U of A graduate athletic training program as well as many other sports medicine organizations both nationally and internationally.



Stay connected!

Stay in touch with us at our departmental website <https://hhpr.uark.edu> and the Exercise Science Research Center website <https://exercisescience.uark.edu>. We are also on social media at <https://www.facebook.com/UAhpl> and https://twitter.com/UofA_ESRC.

If you would like to make a gift to the department or the research center, visit <https://tinyurl.com/hhpr-giving>. Be sure the department name appears in the field labeled "Other department, program or fund" before submitting the form.



2017 External Research Funding

Students' names are underlined.
U of A faculty names are **bolded**.
Faculty members outside of HHPR are *italicized*. Alphabetized by last name of first HHPR faculty listed.

1. **Gallagher, K.** Douglas, E. (2017). Student Undergraduate Research Fellowship (SURF). Arkansas Department of Higher Education. \$2,750.00.
2. **Gallagher, K.** (2017). Research Travel Award. American Society of Biomechanics. \$1,000.00.
3. **Ganio, M.S.**, Kalleen Kennedy. (2017) Perceptual Responses to Exercise Heat-Stress in Smokers Versus Non-Smokers Arkansas Dept. of Higher Education Student Undergraduate Research Fellowship (SURF), \$4,000.
4. **Greene, N., Washington, T., Bottje, W., Kong, Byung-Whi, Wiggs, M., Rajaram, N.,** (2017-2020). Mitochondrial Degeneration – the Root of Skeletal Muscle Atrophy. Faculty Development Travel Award. NIH NIAMS. \$412,668.00.
5. **Greene, N., Washington, T., Wolchok, J. C.,** (2017-2018). Skeletal muscle depletion of microRNA-16 is sufficient to induce insulin resistance. ABI Biomedical Research Grants. Arkansas Bioscience Institute. \$23,000.
6. **Anthony, N., Greene, N., Sami Dridi, S.** (2017-2018). Regression of Rous Sarcoma Virus-Induced Tumors in Arkansas Regressor Chickens – Mechanisms and Implications for Tumor Treatment. ABI Agricultural Research Grants. Arkansas Bioscience Institute. \$50,000.
7. Lee, D.E., **Greene, N., Bottje, W., Rajaram, N.** (2017-2018). A Novel Mechanism for Cardioprotection through Mitochondrial mRNA Translation Initiation. ACSM Foundation Doctoral Student Research Grant. American College of Sports Medicine. \$5,000.
8. **Greene, N., Washington, T.** (2017). Odyssey Fc Dual-Mode Imaging System. Science Undergraduate Research Grant, Li-Cor Biosciences. \$18,600.
9. **Howie, E.K., Ganio, M., Shreve, M., Lamm, C., Weber, J.** (2017-2018). Executive functions and obesity-related behaviors in adolescents with or without obesity. Arkansas Biosciences Institute. \$20,100.
10. **Henry, L.J., Jensen, M.,** Casey, E. L. Burn-out in Belize: Investigating reasons why faculty leave service-learning projects. SEC Travel Grant, Southeastern Conference. \$1,000.00.
11. Hunt, M., Jozkowski, K.N., Crawford, B.L. (2017-2018). Shifting Abortion Attitudes using an Empathy-based Media Intervention: A Randomized Control Study. \$7,500.
12. **Jozkowski, K.N., Willis, M.** (2017). How Precedence Influences Consent Communication within a Sexual Relationship. Doug Kirby Adolescent Sexual Health Research Grant. \$1,000.

13. **Jozkowski, K.N.**, Marcantonio, T. (2017-2018). What is Sexual Consent and Why does it Matter? Examining Factors that Influence Students' Conceptualizations of Consensual Sex. Psi Chi: The International Honor Society in Psychology Graduate Student Research Grant. \$1,500.
14. **Jones, C.** (2017-2018). Northwest Arkansas Safe Communities Injury Prevention Project (Continuation Grant): Arkansas State Police. \$19,200.
15. **McDermott, B.P.**, Emerson D. Effect of Hydration status and NSAID use on gastrointestinal symptoms, gut permeability, inflammatory cytokines, and kidney stress during marathon running. University of Kansas. \$20,000.
16. **McDermott, B.P.**, Veach, M. Evaluating Pre-Season Injury Risk Based on Blood Biomarkers in American Football Southwest Athletic Trainers' Association. \$500.
17. **McDermott, B.P.**, Schwartz, E. Evaluating Kidney Stress During and Following Exercise in the Heat with Muscle Damage. Southwest Athletic Trainers' Association. \$500.
18. **McDermott, B.P.**, Butts, C. Evaluating Kidney Stress During and Following Exercise in the Heat with Muscle Damage. Central States ACSM. \$500.
19. **Moiseichik, M.** Bentonville Parks and Recreation Accreditation Study. City of Bentonville. \$4,956.

2017 Peer-Reviewed Publications

Students' names are underlined.
U of A faculty names are **bolded**.
Faculty members outside of HHPR are *italicized*.
Alphabetized by last name of first HHPR faculty listed.

1. Sung, J., Koo, G-Y., & **Dittmore, S.W.** (2017). Role of intercollegiate athletics' identification in student adjustment to college life. *Journal of Research in Business, Economics and Management*, 9(3), 1680-1691.
2. **Dittmore, S.W.** & Li, B. (2017). Serve and volley: A political economy view of the Tennis Channel's 6-year carriage battle. *Journal of Sports Media*, 12(2), 103-123.
3. **Dittmore, S.W.** & Hutchins, B. (2017). Privilege over innovation: Sports broadcasting, mobile television and the case of Aereo. *Journal of Legal Aspects of Sport*, 27, 3-18.
4. Li, B., **Dittmore, S.W.**, & Scott, O. (2017). Points of attachment on social media: Exploring similarities and differences between Chinese and Western National Basketball Association fans. *Asia Pacific Journal of Sport and Social Science*, 6(3), 201-215.
5. Binns, A., **Gray, M.**, Henson, A.C., & Fort, I.L. (2017). Changes in lean mass and serum myostatin with habitual protein intake and high-velocity resistance training. *Journal of Nutrition, Health, & Aging*, doi: 10.1007/s12603-017-0883-6.
6. Glenn, J.M., **Gray, M.**, & Binns, A. (2017). The relationship of sit-to-stand lower-body power with functional fitness measures in older adults. *Journal of Geriatric Physical Therapy*, 40(1), 42-50.
7. Vincenzo, J.L., Gibson-Horn, C., & **Gray, M.** (2017). Short-term effect of Balancewear therapy on mobility in older adults with mobility limited. *Journal of Geriatric Physical Therapy*, 40(4), 175-182.
8. Covassin, T., **Elbin, R.J.**, Beidler, E., LaFevor, M., Kontos, A.P. (2017). A review of psychological issues that may be associated with a sport-related concussion in youth and collegiate athletes. *Sport, Exercise, and Performance Psychology*, 6, 2 20-229.
9. Schatz, P., **Elbin, R.J.**, Anderson, M.A., Savage, J., Covassin, T. (2017). Exploring sandbagging behaviors, effort, and perceived utility of the ImPACT baseline assessment in college athletes. *Sport, Exercise, and Performance Psychology*, 6, 243-251.
10. Sufrinko, A., McAlister-Deitrick, J., **Elbin, R.J.**, Collins, M.W., Kontos, A.P. (2017). Family history of migraines is associated with posttraumatic migraine symptoms following sport-related concussion. *Journal of Head Trauma and Rehabilitation*.
11. Sufrinko, A., Marchetti, G.F., Cohen, P.E., **Elbin, R.J.**, Re, V., Kontos, A.P. (2017). Using acute performance on a comprehensive neurocognitive, vestibular, and ocular motor assessment battery to predict recovery duration following sport-related concussion (SRC). *American Journal of Sports Medicine*. 45, 1187-1194.
12. Reches, A., Kutcher, J., **Elbin, R.J.**, Or-Ly, H., Sadeh, B., Greer, J., McAllister-Deitrick, J., Geva, A., Kontos, A.P. (2017). Preliminary investigation of brain network activation (BNA) and its clinical utility in sport-related concussion. *Brain Injury*. 5, 1 - 10.

13. Sufrinko, A., Mucha, A., Covassin, C., Marchetti, G., Elbin, R.J., Collins, M.W., Kontos, A.P. (2017). Sex differences in vestibular/ocular and neurocognitive outcomes following sport-related concussion. *Clinical Journal of Sports Medicine*,
14. Viggiani, D., Gallagher, K.M., Sehl, M., Callaghan, J.P. (2017). The distribution of lumbar intervertebral angles in upright standing and extension is related to low back pain developed during standing. *Clinical Biomechanics*. 49, 85-90.
15. Douglas, E., Gallagher, K.M. (2017) The influence of trunk angle on head and neck posture while reading a tablet computer – a comparison to the cervical spine flexion-relaxation phenomenon. *Applied Ergonomics*. 60, 342-347. Doi:10.1016/j.apergo.2016.12.013
16. Fewster, K.M., Gallagher, K.M., Callaghan, J.P. (2017) The effect of standing interventions on low back posture and muscle activation patterns. *Applied Ergonomics*. 58, 281-86. <http://dx.doi.org/10.1016/j.apergo.2016.07.002>
17. Butts, C.L., Spisla, D.L., Adams, J.D., Smith, C.R., Paulsen, K.M., Caldwell, A.R., Ganio, M.S., McDermott, B.P. Effectiveness of Ice-Sheet Cooling Following Exertional Hyperthermia. *Mil Med*. 2017; 182(9):e1951-e1957.
18. Butts, C.L., Smith, C.R., Ganio, M.S., McDermott, B.P. Physiological and Perceptual Effects of a Cooling Garment During Simulated Industrial Work in the Heat. *Appl Ergon*. 2017; 59(Pt A):442-448.
19. Tucker, M.A., Six, A., Moyer, N.E., Satterfield, A.Z., Ganio, M.S. Effect of hypohydration on postsynaptic cutaneous vasodilation and sweating in healthy men. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*. 312(5):R637-R642. 2017.
20. Smith, C.R., Butts, C.L., Adams, J.D., Tucker, M.A., Moyer, N.E., Ganio, M.S., McDermott, B.P. Effect of a Cooling Kit on Physiology and Performance Following Exercise in the Heat. *J Sport Rehabil*. 2017;Epub.
21. Pearson, J., Ganio, M.S., Schlader, Z., Lucas, RAI, Gagnon, D., Rivas, E., Davis, S.L., Kowalske, K.J., Crandall, C.G. Post-junctional sudomotor and cutaneous vascular responses in noninjured skin following heat acclimation in burn survivors. *Journal of Burn Care & Research*. 38(1): e284-e292, 2017.
22. Johnson, E.C., Pryor, R.R., Casa, D.J., Ellis, L., Maresh, C.M., Pescatello, L., Ganio, M.S., Lee, E.C., Armstrong, L.E. Precision, accuracy, and performance outcomes of perceived exertion vs. heart rate guided run-training. *Journal of Strength and Conditioning Research*. 31(3):630-637. 2017.
23. Alhallak, K., Jenkins, S.V., Lee, D.E., Greene, N.P., Quinn, K.P., Griffin, R.J., Dings, RPM, Rajaram, N. (2017). Optical imaging of radiation-induced metabolic changes in radiation-sensitive and resistant cancer cells. *Journal of Biomedical Optics*. 22(6):60502.
24. Hammig, B., & Jones, C. (2017). Emergency Department Visits for Hand and Finger Injuries associated with the use of Log Splitters. *J Agric. Safety & Health*, 23 (2): 133-138.
25. Hammig, B., Daniel Dobbs, M.P., & Blunt-Vinti, H.D. (2017). Electronic cigarette initiation among minority youth in the United States. *American Journal of Drug and Alcohol Abuse*, 43(3), 306-310. doi: 10.1080/00952990.2016.1203926.
26. Daniel-Dobbs, P., Hammig, B., Henry, J. (2017) E-Cigarette Use among US adolescents: Perceptions of Relative Addiction and Harm. *Health Education Journal*. 76 (3) 293-301.
27. Howie, E.K., Campbell, A. C., Abbott, R. A., & Straker, L.M. (2017). Understanding why an active video game intervention did not improve motor skill and physical activity in children with developmental coordination disorder: A quantity or quality issue? *Research in Developmental Disabilities*, 60, 1-12.
28. Howie, E.K., Coenen, P., Campbell, A.C., Ranelli, S., & Straker, L.M. (2017). Head, trunk and arm posture amplitude and variation, muscle activity, sedentariness and physical activity of 3 to 5 year-old children during tablet computer use compared to television watching and toy play. *Applied Ergonomics*, 65, 41-50.
29. Saunders, R.P., Pfeiffer, K., Brown, W.H., Howie, E.K., Dowda, M., O'Neill, J.R., Mclver, K., & Pate, R.R. (2017). Evaluating and Refining the Conceptual Model Used in the Study of Health and Activity in Preschool Environments (SHAPES) Intervention. *Health Education and Behavior*, 44(6), 876-884.
30. Toh, S.H., Coenen, P., Howie, E.K., & Straker, L.M. (2017). The associations of mobile touch screen device use with musculoskeletal symptoms and exposures: A systematic review. *PLoS One*, 12(8), e0181220.
31. Conrad, L., Turner, L, and Hunt, S. (2017) Influence of policy on competitive foods in schools: Results and implications. *Arkansas Journal of Health, Physical Education, Recreation and Dance*. 52(1), 33-42.

32. **Jozkowski, K.N.,** Marcantonio, T., & Hunt, M.E. (2017). College Students' Sexual Consent Communication And Perceptions of Sexual Double Standards: A Qualitative Investigation. *Perspectives on Sexual and Reproductive Health*, 49(4), 237-244. doi: 10.1363/psrh.12041
33. **Jozkowski, K.N. & Wiersma-Mosely, J.D.** (2017). The Greek System: How Gender Inequality and Class Privilege Perpetuate Rape Culture. *Family Relations: Interdisciplinary Journal of Applied Family Studies*, 66(1), 89-103, doi: 10.1111/fare.12229
34. Muehlenhard, C.L., Peterson, Z.D. Humphreys, T.P. & **Jozkowski, K.N.** (2017). Evaluating the One in Five Statistic: Women's Risk of Sexual Assault While in college students. *Journal of Sex Research in the Annual Review for Sex Research*.
35. Strutzenberg, C., Wiersma-Mosley, J.D., Jozkowski, K.N., & Becnel, J. (2017). Love-bombing: A narcissistic approach to relationship formation. *Discovery Journal: The Student Journal of Dale Bumpers College of Agricultural, Food and Life Sciences*. University of Arkansas.
36. Henry, D., & **Jozkowski, K.N.** (2017). Challenges in Research Partnerships to Serve Community Needs: Sexual Assault Prevention on a College Campus. SAGE Research Methods Case Studies.
37. Wiersma-Mosley, J.D., Jozkowski, K.N., & Martinez, T. (2017). An Empirical Investigation of Rape on College Campuses. *Journal of American College Health*, 482-491.
38. Adams, J.D., Kavouras, S.A., Johnson, E.C., Jansen, L.T., Capitan-Jimenez, C., Robillard, J.I., & Mauromoustakos, A. (2017). The Effect of Storing Temperature and Duration on Urinary Hydration Markers. *International Journal of Sport Nutrition and Exercise Metabolism*, 27(1), 18-24.
39. Arnaoutis, G., Kavouras, S.A., Stratakis, N., Likka, M., Mitrakou, A., Papamichael, C., et al. (2017). The effect of hypohydration on endothelial function in young healthy adults. *European Journal of Nutrition*, 56(3), 1211-1217. <http://doi.org/10.1007/s00394-016-1170-8>.
40. Bardis, C.N., Kavouras, S. A., Adams, J. D., Geladas, N. D., Panagiotakos, D. B., & Sidossis, L. S. (2017). Prescribed Drinking Leads to Better Cycling Performance than Ad Libitum Drinking. *Medicine and Science in Sports and Exercise*, 49(6), 1244-1251.
41. Hosokawa, Y., Casa, D.J., Rosenberg, H., Capacchione, J.F., Sagui, E., Kavouras S.A. et al. (2017). Round Table on Malignant Hyperthermia in Physically Active Populations: Meeting Proceedings. *Journal of Athletic Training*, 52(4), 377-383.
42. Johnson, E.C., Bardis, C.N., Jansen, L.T., Adams, J.D., Kirkland, T.W., & Kavouras, S.A. (2017a). Reduced water intake deteriorates glucose regulation in patients with type 2 diabetes. *Nutrition Research*, 43, 25-32.
43. Johnson, E.C., Péronnet, F., Jansen, L.T., Capitan-Jimenez, C., Adams, J.D., & Kavouras S.A. (2017b). Validation Testing Demonstrates Efficacy of a 7-Day Fluid Record to Estimate Daily Water Intake in Adult Men and Women When Compared with Total Body Water Turnover Measurement. *Journal of Nutrition*, 147(10), 2001-2007.
44. **Kavouras, S.A.,** Bardis, C.N., & Adams, J.D. (2017a). Response. *Medicine and Science in Sports and Exercise*, 49(7), 1494.
45. **Kavouras, S.A.,** Bougatsas, D., Johnson, E.C., Arnaoutis, G., Tsipouridi, S., & Panagiotakos, D. B. (2017b). Water intake and urinary hydration biomarkers in children. *European Journal of Clinical Nutrition*, 71(4), 530-535.
46. Lee, E.C., Fragala, M.S., Kavouras, S.A., Queen, R. M., Pryor, J. L., & Casa, D. J. (2017). Biomarkers in Sports and Exercise: Tracking Health, Performance, and Recovery in Athletes. *Journal of Strength and Conditioning Research / National Strength & Conditioning Association*, 31(10), 2920-2937.
47. McKenzie, A.L., Munoz, C.X., Ellis, L.A., Perrier, E.T., Guelinckx, I., Kavouras S.A. et al. (2017a). Urine color as an indicator of urine concentration in pregnant and lactating women. *European Journal of Nutrition*, 56(1), 355-362.
48. McKenzie, A.L., Perrier, E.T., Guelinckx, I., Kavouras, S.A., Aerni, G., Lee, E. C., et al. (2017b). Relationships between hydration biomarkers and total fluid intake in pregnant and lactating women. *European Journal of Nutrition*, 56(6), 2161-2170.
49. Seal, A.D., Bardis, C.N., Gavrieli, A., Grigorakis, P., Adams, J.D. & Kavouras, S.A. (2017). Coffee with High but Not Low Caffeine Content Augments Fluid and Electrolyte Excretion at Rest. *Frontiers in Nutrition*, 4, 40.
50. Tucker, M., Caldwell, A., Butts, C., Robinson, F., Reynebeau, H., Kavouras, S., McDermott, B., Washington, T., Turner, R., Ganio, M. (2017). Effect of hypohydration on thermoregulatory responses in men with low and high body fat exercising in the heat. *J Appl Physiol* 122 (1): 142-152.

51. **Lirgg, C., Gorman, D., Al-Salim, Z., and Hadadi, A.** (2017). Teaching students with disabilities: A Saudi Arabian perspective and U.S. comparison. *International Journal of Physical Education, LIV* (3), 2-10.
52. **Lirgg, C. Gorman, D., Merrie, M., and Shewmake, C.** (2017). Exploring challenges in teaching physical education to students with disabilities. *Palaestra, 31*, (2),13-18.
53. **McDermott, B.P., Anderson, S.A., Armstrong, L.E., Casa, D.J., Cheuvront, S.N., Cooper, L., Kenney, W.L., O'Connor, F.G., Roberts, W.O.** National Athletic Trainers' Association Position Statement: Fluid Replacement for the Physically Active. *J Athl Train.* 2017;52(9):877-895.
54. **Butts, C.L., Torretta, M.L., Smith, C.R., Petway, A.J., McDermott, B.P.** Effects of a Phase Change Cooling Garment During Exercise in the Heat. *Eur J Sport Sci.* 2017;17(8):1065-1073.
55. **Lee, E.C., Munoz, C.X., McDermott, B.P., Beasley, K.N., Yamamoto, L.M., Hom, L.L., Casa, D.J., Armstrong, L.E., Kraemer, W.J., Anderson, J.M., Maresh, C.M.** Extracellular and Cellular HSP72 Differ as Biomarkers in Acute Exercise/Environmental Stress and Recovery. *Scand J Med Sci Sports.* 2017;27(1):66-74.
56. **Caldwell, A.R., Robinson, F.B., Tucker, M.A., Arcement, C.H., Butts, C.L., McDermott, B.P., Ganio, M.S.** Effect of Passive Heat Stress and Exercise in the Heat on Arterial Stiffness. *Eur J Appl Physiol.* 2017;117(8):1679-1687.
57. **Caldwell, A.R., Tucker, M.A., Burchfield, J., Moyon, N.E., Satterfield, A.Z., Six, A, McDermott, B.P., Mulvenon, S.W., Ganio, M.S.** Hydration Status Influences the Measurement of Arterial Stiffness. *Clin Physiol Funct Imaging.* 2017;Epub.
58. **Malmo, J., & Moiseichik, M.** (2017). Development of the cultural appreciation of martial arts scale. *Journal of Combat Sports and Martial Arts, 8*(1), 9-17.
59. **Li, B., Stokowski, S., Dittmore, S.W., Malmo, J. & Rolfe, D.T.** (2017). A case study of self-representation on Twitter: A gender analysis of how student-athletes portray themselves. *Global Sport Business Journal, 5*(1), 61-75.
60. **Li, B., Stokowski, S., Dittmore, S.W. & Scott, O.M.** (2017). For better or for worse: The impact of social media on Chinese sports journalists. *Communication & Sport, 5*(3), 311-330.
61. **Stokowski, S., Blunt-Vinti, H., Hardin, R., Gross, B.D., & Turk, M.** (2017). I know I can learn: The perceptions of NCAA Division I football student-athletes with learning disabilities. *Journal of Issues in Intercollegiate Athletics, 2017 Special Issue, 95-118.*
62. **Stokowski, S., Dittmore, S.W., Stine, G.D., & Li, B.** (2017). Resource decisions in academic services: Which factors predict positive APR scores at NCAA Division I institutions. *Journal of Contemporary Athletics, 11*(3), 173-188.
63. **Turk, M., Stokowski, S., Li, B. & Shipherd, A.M.** (2017). The embodied experience of a Football Championship Subdivision student-athlete. *Journal of Higher Education Athletics & Innovation, 1*(2), 49-74.
64. **Brown, J.L., Rosa-Caldwell, M.E., Lee, D.E., Blackwell, T.A., Brown, L.A., Perry, R.A., Haynie, W.S., Hardee, J.P., Carson, J.A., Wiggs, M.P., Washington, T.A., Greene, N.P.** (2017). Mitochondrial degeneration precedes the development of muscle atrophy in progression of cancer cachexia in tumour-bearing mice. *J Cachexia Sarcopenia Muscle* 1 (1): 36-52.
65. **Rosa-Caldwell, M.E., Brown, J.L., Lee, D.E., Blackwell, T.A., Turner, K.W., Brown, L.A., Perry, R.A., Haynie, W.S., Washington, T.A., Greene, N.P.** (2017). Autophagy activation, not peroxisome proliferator-activated receptor γ coactivator 1 α , may mediate exercise-induced improvements in glucose handling during diet-induced obesity. *Exp Physiol* 102 (9): 1194-1207.
66. **Brown, J.L., Rosa, M.E., Lee, D.E., Brown, L.A, Perry, R.A., Shimkus, K.L., Fluckey, J.D., Carson, J.A., Dridi, S., Washington, T.A., Greene, N.P.** (2017). *PCG-1 α 4* gene expression is suppressed by the IL-6--ERK1/2 MAPK signaling axis and altered by resistance exercise, obesity, and muscle injury. *Acta Physiol* 220 (2): 275-288.
67. **Lee, D.E., Brown, J.L., Rosa-Caldwell, M.E., Blackwell, T.A., Perry, R.A. Jr., Brown, L.A., Khatri, B., Seo, D., Bottje, W., Washington, T.A., Wiggs, M.P., Kong, B., Greene, N.P.** (2017). Cancer cachexia-induced muscle atrophy: Evidence for alterations in microRNAs important for muscle size. *Physiological Genomics* 49 (5): 253-260.
68. **Rosa-Caldwell, M., Lee, D., Brown, J., Brown, L., Perry, R. Jr., Greene, E., Carvalho, Chaigneau F., Washington, T., Greene, N.** (2017) Moderate physical activity promotes basal hepatic autophagy in diet-induced obese mice. *Appl Physiol, Nutr, and Metab* 42 (2): 148-156.