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## Book Chapters

1. Kunz HE, **Irving BA**, Karl JP, and Quiariarte H. (2024). Systems Immunity and Exercise, in Exercise Immunology Second Edition-James Turner, Guillaume Spielmann, John Campbell, eds.

## Other Publications / Pre-Prints

4. Chicco AJ, Zilhaver PT, Whitcomb LA, Fresa KJ, Izon CS, Gonzalez Franquesa A, Dometita C, **Irving BA**, Garcia-Roves PM (2022) Resolving the Rotenone Paradox: elucidating the complexity of multi-substrate respirometry protocols. MitoFit Preprints 2022.17. <https://doi.org/10.26124/mitofit :2022-0017>.
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Zorzano A (2018) MitoEAGLE preprint 2018-06-10(39) Mitochondrial respiratory states and rates: Building blocks of mitochondrial physiology.

2. **Irving, BA.** Dissertation: Impact of Exercise Intensity on Abdominal Visceral Fat (AVF) and Risk Factors Associated with the Metabolic Syndrome. Advisors: Arthur Weltman, Glenn Gaesser, Eugene Barrett, Ann Gill Taylor. The University of Virginia. March 2006.
1. Parker, EB, Clark, BR, Richardson, NT, Olowin, AB, Gaesser, GA, **Irving, BA.** A Low-Cost, High-Performance Physical Activity Monitor (PAM). Final Report. Department of Education, March 31, 2004. (Contract No. ED-01-CO-0123).

## Presentations (Reverse Order)

### International

21. Rees B (Author & Presenter), Reemyer J (Author), **Irving BA** (Author). "Inter-Individual Variation in Mitochondrial Respiration and Energy Expenditure." Society of Experimental Biology Annual Conference. Montpellier, France. (July 2022) **(Oral)**
20. Chicco A (Author & Presenter), Zilhaber PT (Author), Whitcomb LA (Author), Fresa KJ (Author), Izon CS (Author), Gonzalez-Franquesa A (Author), Izon CS, Dometita C (Author), **Irving BA** (Author), Garcia-Roves PM (Author). Elucidating the complexity of substrate-uncoupler-inhibitor titration protocols. Bioblast 2022: BEC Inaugural Conference. Innsbruck, AT. (Jun 29 . 30, 2022). **(Oral)**
19. **Irving BA** (Author & Presenter), Stampley J (Author), Quiariarte H (Author), Wigger Z (Author), Stephens J (Author), Soto P (Author), Allerton TA (Author). Impact of nitric oxide promoters on mitochondrial bioenergetics in a murine model of Alzheimer's disease. Bioblast 2022: BEC Inaugural Conference. Innsbruck, AT. (Jun 29 . 30, 2022) **(Oral)**
18. Rees B (Author & Presenter), Reemyer J (Author), **Irving BA** (Author). "Inter-Individual Variation in Mitochondrial Respiration and Energy Expenditure." Society of Experimental Biology Annual Conference. Montpellier, France. (July 2022) **(Oral)**

11. **Irving BA** (Author & Presenter), Mayo-Karolinska Diabetes and Metabolism Meeting, "Dose Exercise Training Modality Differential Affect Skeletal Muscle Adaptation in Young and Older Adults?" Stockholm, Sweden. (December 1, 2013). **(Symposium)**
10. **Irving BA** (Author & Presenter), Stahl R (Author), Kane C (Author), Chernousov M (Author), Argyropoulos G (Author), Carey D. 9th Conference of Mitochondrial Physiology (MIP2013): Comparative Mitochondrial Physiology, "Sex Differences in Murine Mitochondrial Oxidative Capacity following 24 week High-Fat Diet," Oburgurgl, Austria. (September 23, 2013). **(Oral)**
9. **Irving BA** (Author & Presenter). Oroboros O2K Fluorometry Workshop, "Shredder Applications in High-Resolution Respirometry," Oburgurgl, Austria. (September 19, 2013). **(Oral)**
8. **Irving BA** (Author & Presenter), Roesch S (Author), Kane C (Author), Styer A. (Author), Argyropoulos G. (Author), IOC72 O2k Workshop, "AgRP Deficient Female Mice have Increased Body Weight and Hypothalamic Mitochondrial Oxidative Capacity," Schroecken. (December 5, 2012). **(Oral)**
7. **Irving BA**. "Mitochondrial Dysfunction in Aging and its Impact on Fuel Selection," Bjorntorp Symposium, Maastricht, Netherlands. (November 7, 2012). **(Symposium)**
6. **Irving BA** (Author & Presenter), Lanza IR (Author), Dalla Man C (Author), Henderson GC (Author), Nelson R (Author), Miles J (Author), Cobelli C (Author), Nair KS. (Author), European Association for the Study of Diabetes Annual Meeting, "Effect of Age, Sex, Mitochondrial Function, and Exercise Training on Insulin Sensitivity, Beta-Cell Responsivity, and Fatty Acids in Response to a Mixed-Meal," Lisbon, Portugal. (September 12, 2011). **(Oral)**
5. **Irving BA** (Author & Presenter). International Symposium on Exercise, "Skeletal Muscle Remodeling in Aging: Impact of Exercise Modality," Rochester, MN. (October 14, 2010). **(Symposium)**
4. **Irving BA** (Author & Presenter), 13th Annual Mayo-Karolinska Diabetes and Metabolism Meeting, "Effect of Insulin Deprivation on Mitochondrial Function," Nice. (October 19, 2007). **(Symposium)**
3. Weltman J (Author & Presenter), **Irving BA**, Brock D (Author), Davis C (Author), Barrett E (Author), Gaesser G (Author), Weltman A (Author). 10th International Congress of Obesity, "Comparison of the NIH ImageJ and Slice-O-Matic Medical Imaging Software to Differentiate and Quantify Adipose and Skeletal Muscle Tissue from Computed Tomography (CT) Scans," Sydney, Australia. (September 4, 2006). **(Oral)**
2. **Irving BA** (Author), Brock D (Author), Davis C (Author), Swift D (Author), Patrie J (Author), Barrett E (Author), Gaesser G (Author), Weltman A (Author & Presenter). 10th International Congress of Obesity, "Effects of Exercise Training Intensity on Markers of Inflammation in Abdominally Obese Individuals with the Metabolic," Sydney, Australia. (September 4, 2006). **(Poster)**
1. Brock DW (Author & Presenter), Davis CK (Author), **Irving BA**. (Author), Barrett EJ. (Author), Weltman A. (Author), Gaesser, GA (Author). North American Association for the Study of Obesity Annual Meeting, "Differential Impact of High-Carbohydrate vs. Low-Carbohydrate Meals on Endothelial Function in Subjects with the Metabolic Syndrome," Vancouver, Canada. (October 15, 2005). **(Poster)**

## National

93. Allerton TD, Quiariarte HQ, Li Z, Stampley J, Davis G, Noland R, Doiron JE, Sharp TE, Xia H, Shah S, **Irving BA**, Lefer DJ. Improved Skeletal Muscle Metabolism and Exercise Capacity Following Hydrogen Sulfide Therapy in Cardiometabolic HFpEF. American Heart Association: Basic Cardiovascular Sciences. Chicago, IL. July 23, 2024 **(Poster)**.
92. Allerton TD, Doiron JE, Elbatrik M, Li Z, Stampley J, Davis G, Noland R, **Irving BA**, Sharp TE, Xia H, Shah S, Lefer DJ. Mitochondrial Hydrogen Sulfide Regulates Skeletal Muscle Dysfunction and Exercise

Intolerance in Cardiometabolic HFpEF. American Heart Association: Basic Cardiovascular Sciences. Chicago, IL. July 23, 2024 (**Poster**).

91. Davis GM, Quiariarte HD, Stampley JE, Allerton TD, **Irving BA**. Impact Of Voluntary Wheel Running On eNOS And Muscle Microvasculature in a Model of HFpEF. American College of Sports Medicine: 2024 Annual Meeting. Boston, MA. May 2024 (**Poster**).
90. Dennis J (Author & Presenter), Warren O (Author), Schoen J (Author), (Author) Phelan H, Carter J (Author), **Irving BA** (Author), Smith AA (Author). 19<sup>th</sup> Annual Academic Surgical Conference.  
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70. Benotti P (Author & Presenter), Wood GC (Author), Browne J (Author), Hallowell P (Author), **Irving BA** (Author), Parikh M (Author), Morton J (Author), Fielding CR (Author), Samuels J (Author), Schwarzkopf R (Author), Suk M (Author), Still C (Author). Obesity Week 2019, "Comparative Knee Outcomes In



48. Wood GC (Author & Presenter), Benotti P (Author), Argyropoulos GA (Author), **Irving BA** (Author), Rolston DD (Author), Still CD (Author), Gerhard GS (Author). Obesity Week, "A Combined Clinical and Genetic Classification Score for Nonalcoholic Fatty Liver Disease (NAFLD) in Patients with Morbid Obesity," Boston, MA. (November 3, 2014). **(Poster)**
47. Rolston DD (Author & Presenter), Wood GC (Author), Ellapan B (Author), Benotti PN (Author), Argyropoulos GA (Author), Deshpande A (Author) **Irving BA** (Author), Gerhard GS (Author), Obesity Week, "Ion-dependent Transporter Expression in Human Jejunum is Influenced by Body Mass Index (BMI)," Boston, MA. (November 3, 2014). **(Poster)**
46. Fleming J (Author & Presenter), Rawson E (Author), **Irving BA** (Author), Benotti P (Author), McConnell T (Author), Seiler J (Author), Wood GC (Author), Still CD (Author). Obesity Week, "Physical Inactivity: A Potential Correlate of Weight Regain After Bariatric Surgery," Boston, MA. (November 3, 2014). **(Poster)**
45. Konopka AR (Author & Presenter), Asante A (Author), Amols MH (Author), Lanza IR (Author), Johnson ML (Author), Robinson MM (Author), **Irving BA** (Author), Nair KS (Author). American Diabetes Association, "Aerobic Exercise Training Improves Insulin Sensitivity and Skeletal Muscle Mitochondrial Energetics in Women with Polycystic Ovary Syndrome," San Francisco, CA. (June 13, 2014). **(Oral)**
44. Fleming JJ (Author & Presenter), Rawson ES (Author), Still CS (Author), Wood GC (Author), Bennotti, PN (Author), Seiler, JL (Author), McConnell TR (Author), **Irving BA** (Author) American College of Sports Medicine Annual Meeting, "Comparison of Methods for Estimating Resting Energy Expenditure in Post-Bariatric Surgery Patients," Orlando, FL. (May 28, 2014). **(Poster)**
43. Wenrich BR (Author & Presenter), **Irving BA** (Author), Rovnyak D (Author). Experimental Nuclear Magnetic Resonance Conference, "Investigation into NMR Metabolomic Characterization of Human Type II Diabetic States," Boston, MA. (March 23, 2014). **(Poster)**
42. Clasey JL (Author & Presenter), Bradley, KD (Author), Bradley JW (Author), **Irving BA** (Author), Crofford JJ (Author). Obesity Week, "A New BIA Equation Estimating the Fat-Free Mass of Young Non-Hispanic Black Women," Atlanta, GA. (November 11, 2013). **(Poster)**
41. **Irving BA** (Author & Presenter), Roesch S (Author), Kane C (Author), Styer A (Author), Argyropoulos, G (Author). Endocrine Society Annual Meeting, "AgRP Deficient Female but not Male Mice have Hypothalamic Mitochondrial Oxidative Capacity," San Francisco, CA. (June 15, 2013). **(Poster)**
40. Clasey JL (Author & Presenter), Bradley KD (Author), Bradley JW (Author), **Irving BA** (Author), Crofford LJ (Author). The Obesity Society, "A Comparison of Body Composition Assessment Methods in Young Non-Hispanic Black Women," San Antonio, TX. (September 20, 2012). **(Poster)**
39. Almandoz J (Author & Presenter), Howell L (Author), Grothe K (Author), **Irving BA** (Author), Signh E (Author), Nelson R (Author), Miles J (Author). American Diabetes Association, "Relationship between Body Fat Depots and Spillover of Fatty Acids from Chylomicrons in Subjects with Type 2 Diabetes: Effect of Weight Loss," Philadelphia, PA. (June 8, 2012). **(Poster)**
38. Clasey JL (Author & Presenter), Bradley KD (Author), Bradley JW (Author), **Irving BA** (Author), Crofford LJ (Author). American College of Sports Medicine Annual Meeting, "A New BIA Equation Estimating the Body Composition of Young Non-Hispanic Black Women," San Francisco. (May 29, 2012). **(Poster)**
37. Almandoz J (Author & Presenter), Howell J. (Author), Grothe K (Author), **Irving BA** (Author), Nelson R (Author), Miles J (Author). American Association of Clinical Endocrinologists, "Strategy for Weight Loss Through Multidisciplinary Lifestyle Approach Focusing on Calorie Deficit in Obese Patients with Type 2 Diabetes," Philadelphia, PA. (May 23, 2012). **(Poster)**
36. Angadi S (Author & Presenter), Weltman N (Author), Patrie J (Author), Barrett E (Author), Weltman, A (Author), Brock, D (Author), **Irving BA** (Author), Davis C (Author), Rodriguez J (Author), Gaesser GA (Author). Experimental Biology, "Effects of a Low-Carbohydrate versus High-Carbohydrate, High-Fiber



Diet on Soluble Cell Adhesion Molecules and Endothelial Function in Adults with Metabolic Syndrome," San Diego. (April 21, 2012). **(Poster)**

35. **Irving BA** (Author & Presenter), Lanza IR (Author), Henderson GC (Author), Weymiller A (Author), Nair KS (Author). Experimental Biology, "Endurance, Resistance, and Combined Training Increase Mixed Muscle Protein Synthesis Independently of Age," San Diego. (April 21, 2012). **(Oral)**
34. **Irving BA** (Author & Presenter), Weymiller A (Author), Syed S (Author), Karakelides H (Author), Soop, M (Author), Carter RE (Author), Nair KS (Author). American Diabetes Association, "Amino Acid Metabolites and Insulin Resistance in Human. American Diabetes Association," San Diego, CA. (June 24, 2011). **(Poster)**
33. Weymiller A (Author & Presenter), **Irving BA** (Author), Carter RE (Author), Persson M (Author), Tatpatti L (Author), Bhagra S (Author), Soop M (Author) Nair KS (Author). American Diabetes Association, "Metformin and Pioglitazone Altered Plasma Amino Acid Metabolites . Potential Biological Markers of Insulin Sensitivity," San Diego, CA. (June 24, 2011). **(Poster)**
32. **Irving BA** (Author & Presenter), Lanza IR (Author), Henderson GC (Author), Weymiller A (Author), Schimke J (Author), Morse D (Author) Nair KS (Author). American College of Sports Medicine Annual Meeting, "Effect of Exercise Training Modality on Skeletal Muscle mRNA Abundance in Young and Older Adults. American College of Sports Medicine," Denver, CO. (June 1, 2011). **(Poster)**
31. Sawyer BJ (Author & Presenter), **Irving BA** (Author), Patrie J (Author), Angadi S (Author) Gaesser G A (Author). American College of Sports Medicine Annual Meeting, "Percent Body Fat is Positively Correlated to Walking and Running Economy/Efficiency in Healthy Adults," Denver. (June 1, 2011). **(Poster)**
30. **Irving BA** (Author & Presenter), Lanza IR (Author), Henderson GC (Author), Weymiller A (Author), Schimke J (Author), Morse D. (Author) Nair KS (Author), Experimental Biology, "Effect of Exercise Training Modality on Skeletal Muscle Mitochondrial Biogenesis in Young and Older Adults," Washington. (March 17, 2011). **(Poster)**
29. Gaesser GA (Author & Presenter), Angadi S (Author), Weltman N (Author), Rodriguez J (Author), Patrie J (Author) Barrett E (Author), Brock D (Author), Davis C (Author), **Irving BA** (Author), Experimental Biology, "Impairment of Endothelial Function Despite Improvements in Traditional Lipid Markers in Low-Carbohydrate vs. High-Carbohydrate, High-Fiber Diet in Adults with Metabolic Syndrome," Washington. (March 17, 2011). **(Poster)**
28. Lanza IR (Author & Presenter), **Irving BA** (Author), Henderson GC (Author), Nair KS (Author), Experimental Biology, "Mitochondrial Oxidative Capacity and Coupling: Effects of Aging and Exercise Training," Washington, DC. (March 17, 2011). **(Oral)**
27. **Irving BA** (Author & Presenter), Karakelides H (Author), Nair KS (Author). American Diabetes Association, "Association between of Insulin Sensitivity, Skeletal Muscle Mass, Fat Mass, Fitness, Age, and Sex," Orlando, FL. (June 25, 2010). **(Poster)**
26. Muniyappa R (Author), **Irving BA** (Author), Unni U (Author), Lee, HW (Author) Nair KS (Author), Quon MJ (Author), Kurpad AV (Author). American Diabetes Association, "Comparative Evaluation of Surrogate Indices of Insulin Sensitivity/Resistance in Asian Indian Men Using a Calibration Model," Orlando, FL. (June 25, 2010). **(Poster)**
25. Gaesser GA (Author & Presenter), Angadi S (Author), Davis C (Author), **Irving BA** (Author), Patrie J (Author), Weltman A (Author), Barrett EJ (Author), Brock D (Author). American Dietetic Association, "Effects of a Low-Fat, High-Fiber Diet Compared with a Low-Carbohydrate Diet on Insulin Sensitivity and Endothelial Function in Adults with the Metabolic Syndrome." (October 17, 2009). **(Poster)**

24. **Irving BA** (Author & Presenter). American Aging Association, "DHEA in Men and Women," Scottsdale, AZ. (May 28, 2009). **(Poster)**
23. **Irving BA** (Author & Presenter), Rynders CA (Author), Angadi SS (Author), Weltman NY (Author), Gaesser GA (Author), Weltman A. (Author). American College of Sports Medicine Annual Meeting, "Abdominally Obese Women with the Metabolic Syndrome Have Higher Maximal Fat Oxidation Rates During Submaximal Treadmill Exercise Compared to Lean Women," Seattle, WA. (May 27, 2009). **(Poster)**
22. Srinivasan M (Author & Presenter), **Irving BA** (Author), Frye RL (Author), O'Brien P (Author), Hartman SJ (Author), McConnell JP (Author), Nair KS (Author). Joint Conference of the 49th Cardiovascular Disease Epidemiology and Prevention-and-Nutrition, Physical Activity and Metabolism, "Impact of Long-Term Replacement with Dehydroepiandrosterone (DHEA) on Lipoprotein Profile in Elderly Males and Females," Palm Harbor, FL. (March 10, 2009). **(Poster)**
21. Jaleel A (Author & Presenter), Karakelides H (Author), Klaus K (Author), Morse D (Author), Ward L (Author), **Irving BA** (Author), Nair KS (Author). American Diabetes Association, "Alteration of Plasma Protein Synthesis by Insulin Treatment in Type 1 Diabetes," San Francisco, CA. (June 6, 2008). **(Poster)**
20. **Irving BA** (Author & Presenter), Bigelow M (Author), Asmann Y (Author), Chow L (Author), Coenen-Schimke J (Author), Klaus KA (Author), Guo Z (Author), Raghavakaimal S (Author), Nair KS (Author). American Diabetes Association, "Asian Indians have Enhanced Skeletal Muscle Mitochondrial Capacity to Produce ATP in Association with Severe Insulin-Resistance," San Francisco, CA. (June 6, 2008). **(Oral)**
19. Bhagra S (Author & Presenter), Schimke JM (Author), Stump C (Author), Halvatsiotis P (Author), **Irving BA**

Exercise Training Intensity on Cardiometabolic Risk in Women with the Metabolic Syndrome with or without Hypertension," New Orleans, LA. (May 30, 2007). **(Oral)**

12. Davis CK (Author & Presenter), **Irving BA** (Author), Brock DW (Author), Gaesser, GA (Author), Barrett EJ (Author), Weltman A (Author). American College of Sports Medicine Annual Meeting, "Exercise Training-Induced Changes in Skeletal Muscle Microvasculature Assessed by Contrast Enhanced Ultrasound," New Orleans, LA. (May 30, 2007). **(Poster)**
11. Weltman A (Author & Presenter), **Irving BA** (Author), Swift DL (Author), Davis CK (Author), Rodriguez J (Author), Frick K (Author), Barrett EJ (Author), Gaesser GA (Author). American College of Sports Medicine Annual Meeting, "Exercise-Induced Weight Loss and Biological/Behavioral Compensation in Women with the Metabolic Syndrome (MS)," New Orleans. (May 30, 2007). **(Oral)**
10. **Irving BA** (Author & Presenter), Brock DW (Author), Davis CK (Author), Swift DL (Author), Barrett EJ (Author), Gaesser GA (Author) Weltman A (Author). North American Association for the Study of Obesity, "The Hypertriglyceridemic Waist (HTGW) Exacerbates Risk in Women with the Metabolic Syndrome," Boston, MA. (October 20, 2006). **(Poster)**
9. **Irving BA** (Author & Presenter), Weltman JY (Author), Davis CK (Author), Swift DL (Author), Brock DW (Author), Patrie J. (Author), Barrett EJ (Author), Gaesser GA (Author), Weltman A (Author). Endocrine Society Meeting, "Effects of Exercise Training Intensity on Growth Hormone (GH) Secretion in

1. **Irving BA**

**COVID19 - Abstracts/Presentations Accepted for Presentation (Meetings Cancelled)**

11. Zunica E, Axelrod C, King W, Spielmann G, **Irving BA**, Alexopoulos S, Hoehn K, Davuluri G, Dantas W, Hoppel C, Gilmore AL, Kirwan J. Antitumor Effects of BAM15 in Obese Mice With Triple Negative Breast Cancer. In: OBESITY. Vol. 28. 2020. p. 7-7.
10. Quiarte H, Lemoine N, Wang H, Martone M, Matthews R, Calvert D, Marucci J, Etheredge S, Spielmann G, **Irving BA**, Johannsen N. Characterization Of Normal Biomarkers Of Muscle Damage In Collegiate Athletes. In: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE. Vol. 52. 17th ed. 2020. p. 977-977.
9. Martone M, Bouchard C, Rankinen T, **Irving BA**, Johannsen N, Spielmann G. Cmv Serostatus Has A Negative Effect On Cardiorespiratory Fitness And Insulin Sensitivity In Sedentary African-americans. In: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE. Vol. 52. 17th ed. 2020. p. 521-521.
8. Spielmann G, Campbell J, Singh M, Church T, Irving BA, Johannsen N. EFFECTS OF AEROBIC AND RESISTANCE EXERCISE ON BIOMARKERS OF B-CELL ACTIVATION IN TYPE 2 DIABETES. In: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE. Vol. 52. 17th ed. 2020. p. 128-129.
7. Allerton TD, Ravussin E, Rood J, **Irving BA**, Lemoine N, Mullenix S, Marucci J, Johannsen N. Energy Expenditure Measured Overnight In A Whole-room Indirect Calorimeter In Four Collegiate American-style Football Linemen. In: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE. Vol. 52. 17th ed. 2020. p. 343-343.
6. Stampley JE, Kennedy S, Scott MC, Davis B, Quiarte H, Johannsen N, Heymsfield SB, Greenway F, Spielmann G, **Irving BA**. Evaluation Of 3D Body Imaging To Estimate Percentage Body Fat In Older Adults. In: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE. Vol. 52. 17th ed. 2020. p. 148-148.
5. Cho E, Theall B, Stampley J, Davis B, Quiarte H, Greenway F, Johannsen N, Spielmann G, **Irving BA**. Light Physical Activity Is Associated With Reduced Signs Of Immune Aging In Healthy Older Adults. In: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE. Vol. 52. 17th ed. 2020. p. 127-128.
4. Gosalia J, Hanna R, Vairo G, **Irving BA**, McCully K, Proctor D. Reproducibility of NIRS Oxidative Capacity Measurements in the Vastus Lateralis and Medial Hamstring Muscles. In: FASEB JOURNAL. Vol. 34. 2020.
3. Scott MC, Stampley J, Davis B, Quiarte H, Cho E, Theall B, Granger J, Johannsen N, Heymsfield SB, Greenway F, Spielmann G, **Irving BA**. Trabecular Bone Score And Bone Mineral Density In Older Adults. In: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE. Vol. 52. 17th ed. 2020. p. 70-70.
2. Proctor DN, Hanna RB, Gosalia J, Hobson Z, Delgado J, Demalis A, Vairo GL, Mookerjee S, **Irving BA**, McCully KK. A Time-Efficient NIRS Protocol For Cross- And Within-limb Comparisons Of Muscle Oxidative Capacity. In: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE. Vol. 52. 17th ed. 2020. p. 84-84.
1. Davis B, Sampley J, Quiarte H, Cho E, Theall B, Granger J, Scott MC, Heymsfield SB, Greenway F, Johannsen N, Spielmann G, Irving BA. Associations Between Physical Fatigability, VO(2) Peak And Measures Of Muscle Strength In Older Adults. In: MEDICINE AND SCIENCE IN SPORTS AND EXERCISE. Vol. 52. 17th ed. 2020. p. 338-338.

**(Note: Stampley J was listed as Sampley J in the abstract book)**

**Invited Talk**

20. **Irving BA** (Author & Presenter). 16th Annual Course - Isotope Tracers in Metabolic Research: Principles and Applications. November 13, 2024. Sponsor: Vanderbilt Mouse Metabolic Phenotyping Core and the NIDDK.



2. **Irving BA** (Author & Presenter). Washington University, "Impact of Exercise Intensity on Abdominal Visceral Fat (AVF) and Risk Factors Associated with the Metabolic Syndrome," St. Louis, MO. (January 24, 2006).
1. **Irving BA** (Author & Presenter). University of Virginia, "The Impact of Exercise Intensity on Athletic Performance," Charlottesville, VA. (October 8, 2005).

**Local**

14. Davis GM, Quiariarte HD, Stampley JE, Allerton TD, **Irving BA**. Impact Of Voluntary Wheel Running On eNOS And Muscle Microvasculature in a Model of HFpEF. LSU Graduate School Research Conference. Baton Rouge, LA. May 2024.
13. Davis GM, Quiariarte HD, Stampley JE, Allerton TD, **Irving BA**. Impact Of Voluntary Wheel Running On eNOS And Muscle Microvasculature in a Model of HFpEF. Geauxing the Distance with Kinesiology Inaugural Research Symposium. April 4, 2024. LSU School of Kinesiology.
12. Stampley JE (Author & Presenter), Davis B (Author), Quiariarte H (Author), Cho E (Author), Granger J (Author), Johannsen NM (Author), Spielmann G (Author), Greenway F (Author), **Irving BA, FACSM** (Author). Effects of Resistance Training with Low-Intensity Physical Activity on Muscle Oxidative Capacity in Older Adults. LSU Graduate School Research Conference. Baton Rouge, LA. May 2023. **(Oral)**.
11. Davis B (Author & Presenter), Spielmann G (Author), Johannsen N (Author), **Irving BA FACSM** (Author). Impact of Blood Flow Restricted Exercise on Neuromuscular Fatigue in Trained and Untrained Adults. LSU Graduate School Research Conference. Baton Rouge, LA. May 2023. **(Poster)**
10. Simmons R, (Author & Presenter), Frakes M (Author), **Irving BA** (Author), Johannsen N. LSU Discover

(AVF) and Risk Factors Associated with the Metabolic Syndrome," Charlottesville, VA. (November 8, 2005).





Ethicon EndoSurgery, Total \$4,769,498 (Sub-Award \$38,701.00). (January 1, 2016 - December 31, 2020). (NCE)

18. **Irving BA** (Principal-Investigator). "Impact of Blood Flow Restricted (BFR) Resistance Training on Muscle Mass, Strength, Quality, and Bioenergetics," Sponsored by Delfi, \$20,000.00. (December 1, 2017 - July 8, 2019).
17. **Irving BA** (Principal-Investigator), Carmichael O (Co-Principal-Investigator), "Mechanisms of Premature Muscle Fatigue in Sedentary and Exercise Trained Adults," Sponsored by LSU Biomedical Collaborative Research Program, \$69,500.00. (July 1, 2018 - June 30, 2019).
16. **Irving BA** (Principal-

4. Nair KS (Principal-Investigator), **Irving BA** (Co-Investigator). "R01 AG09531-(Administrative Supplement): Mechanism of Muscle Wasting in Aging Man," Sponsored by NIH/AG. (July 1, 2007 - June 30, 2008).
3. **Irving BA** (Postdoctoral Fellow), Eberhardt N (Principal), Nair, KS (Co-Investigator, Mentor), "T32 AT07352: Endocrinology and Metabolism Training Grant," Sponsored by NIH/NIDDK, \$53,054.00. (July 1, 2006 - June 30, 2007).
2. **Irving BA** (Predoctoral Fellow), Taylor AG (Principal-Investigator), Weltman A (Co-Investigator, Mentor). "T32 AT00052: NIH/NCCAM Training Grant." (August 1, 2001 - July 31, 2005).
1. Weltman A (Principal-Investigator), **Irving BA** (Co-Investigator). "Provost Research Grant," Sponsored by the University of Virginia. (July 1, 2001 - June 30, 2005).

#### **Grant Reviewed in Last Year that Were Unfunded**

7. Papadopoulos E (Principal-Investigator), Finan KR (Co-Investigator), Spielmann G (Co-Investigator), **Irving BA** (Co-Investigator), Capron D (Co-Investigator), Brown J (Sub-Award PI). Prehabilitation Among Black And White Patients Prior To Colorectal Cancer Surgery. Our Lady of the Lake (OLOL) Foundation, Total (\$185,174).
6. Papadopoulos E (Principal-Investigator), **Irving BA (Co-Investigator)**, Spielmann G (Co-Investigator), Johannsen N (Co-Investigator), Holston D (Co-Investigator), Greene M (Co-Investigator). The effects of TAURine and resistance training on indices of frailty among prefrail African American older adults. The TAURUS pilot, randomized, double-blind, placebo-control21(n)11(v)6(e)6(s)6(t)-16(ig)14(a)-18(t)8(o)

2. "Impact of Blood Flow Restricted (BFR) Resistance Training on Muscle Mass, Strength, Quality, and Bioenergetics" (On-Going)
3. "Effect of Blood Flow Restricted (BFR) Resistance Training on Muscle Mass, Strength, Quality, and Bioenergetics" (On-Going)
4. "Weight-Loss to Improve Functional Status Trajectories Following Total Knee Arthroplasty (SWIFT Trial)" (On-Going).
5. "Blood Cell Bioenergetic Method Optimization and Training Protocol" (On-Going).

**Teaching Experience**

**Courses Taught**

2025

Semester	Course Prefix & Number	Course Name	Section #	Enrollment
Spring	KIN 3515	PHYS BAS PHYSCL ACTV	001	47
Spring	KIN 7550	Advanced EXE TJT.68 540.176.0 g0 G((		

Fall

KIN 7530





2016	Fall	KIN 3515	PHYS BAS PHYSCL ACTV	1	47	3.832	26
2016	Fall	KIN 7534	EXERC IN HLTH & DIS	1	5	4.819	5





22. Undergraduate Honors Thesis Committee Member, "Links between Physical Activity Levels and

## **In-Process**

7. Postdoctoral Mentor. Advised: Ashok Sivasailam
6. Directed Individual/Independent Study. Advised: Kaylee Broad.
5. Doctoral Advisory Committee Member, School of Kinesiology. Advised: Jason Soileau
4. Doctoral Advisory Committee Member, School of Kinesiology. Advised: Matthew Martone
3. Doctoral Advisory Committee Chair, School of Kinesiology. Advised: Gregor M. Davis
2. Doctoral Advisory Committee Chair, School of Kinesiology. Advised: Carlante Emerson
1. Doctoral Advisory Committee Chair, School of Kinesiology. Advised: Elizabeth Heintz (Dr. John Kirwan is the primary research mentor)

## **Non-Credit Instruction Taught**

12. Guest Lecture, BIOL 7800 Bioenergetics, Louisiana State University. (April 2018).
11. Guest Lecture, Kinesiology 567: Advanced Exercise Physiology, Penn State University. (2015).
10. Guest Lecture, Kinesiology 455: Physiological Basis for Exercise as Medicine, Penn State University. (2015).
9. Guest Lecture, Kinesiology 567: Advanced Exercise Physiology, Penn State University. (2014).
8. Guest Lecture, Kinesiology 567: Advanced Exercise Physiology, Penn State University. (2013).
7. Guest Lecture, EXRSCI556: Muscular Adaptations, Bloomsburg University. (2012).
6. Guest Lecture, CORE 6700: Integrative Physiology, Mayo Clinic. (2011).
5. Guest Lecture, CORE 6700: Integrative Physiology, Mayo Clinic. (2010).
4. Guest Lecture, CORE 6700: Integrative Physiology, Mayo Clinic. (2009).
3. Group Leader, CTSA Introduction to Clinical & Transnational Research, Mayo Clinic. (2009).
2. Guest Lecture, CORE 6700: Integrative Physiology, Mayo Clinic. (2008).
1. Guest Lecture, CORE 6700: Integrative Physiology, Mayo Clinic. (2007).

## **Teaching Innovation and Curriculum Development**

### **Other**

1. New Course Preparation. KIN3515. August 2016 - December 2016.  
Prepared course for the first time. Incorporated Turning Point Clickers for the first time.

### **Revised Existing Course**

3. Revised Existing Course. KIN7546. January 2018 - May 2018.  
Revised Exercise Metabolism course to include a combination of summary lectures, primary article critiques, and class project. This course had not been taught in several years prior to Spring 2018.
2. Revised Existing Course. KNIN7503. January 2016 - April 2016.  
Revised course to provide a multi-disciplinary survey style overview of important topics related to the dimension of aging consistent with the Life Course on Aging graduate certification. This includes using

publicly available data (e.g., NHANES) to address the impact of aging on health a disease. These projects work in collaboration with the National Institute of Aging and one class project is being revised for submission to a peer reviewed journal.

1. Revised Existing Course. KIN7534. August 2015 - December 2015.  
Revised Exercise Health and Disease course to include a combination of summary lectures, primary article critiques, and class project.

### Faculty Development Activities Attended

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19. WorkshopnBT eW\*2 10 jo s a T6(n)1(ti)-24(c(ci)-2(s-18(ri6(a)69(f )M(vi)-2(st6( p)9(e)bpnBTI)-2(y 18(r6(vi)-2(ss)€

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**University, College, Or Department Service**

- Committee Member, Endocrinology/Pharmacology Search Committee (2024-Present)
- Committee Chair, Biotechnology/Biosensor Search Committee (2024-Present)
- Program Committee Chair, Geauxing the Distance Inaugural Kinesiology Symposium. April 4-5<sup>th</sup>. Four International Recognized Speaker (Drs. Scott Powers, Kirsten Kucera, Jana Iverson, Ang Chen) and over 240 attendees.
- Committee Member, Sports Science Search Committee (2023-2024)
- Committee Member, Motor Behavior Search Committee Position 2 (2023-2024)
- Committee Member, Motor Behavior Search Committee Position 1 (2023-2024)
- Committee Member, LSU CHSE Discovery & Research Committee (2023-Present)
- Committee Member, Assistant/Associate Professor of Biostats/Epi, Public Health Search Committee. (2022-2023).
- Committee Member (Alternate), LSU Institutional Review Board. (August 2020-Present).
- Committee Chair, Assistant Professor of Exercise Physiology Search Committee. (2019&2020).
- Attendee, Huey P Long Field House Renovation. (2019 - Present).
- Co-Director of the DXA Laboratory. (2017 - Present).
- Committee Member, LSU Life Course on Aging (LCAC). (September 2015 - Present).
- Member, School of Kinesiology Strategic Plan: Research and Discovery Working Group. (2018).
- LSU ORED Summer Stipend Program. (November 2017 - December 2017).
- Motor Behavior Search Committee. (November 1, 2016 - February 15, 2017).

**Professional Service**

Comm9049121( 8/6(R)2 Pr23S

**Other**

Protocol Reviewer, Mayo Clinic Endocrine Research Unit. (2006 - 2012).

**Reviewer, Grant Proposal**

Reviewer, Grant Proposal, Department of Defense. (2020).

Reviewer, Grant Proposal, Department of Defense. (2019).

Reviewer, Grant Proposal, Department of Defense. (June 2018).

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Reviewer, Grant Proposal, Department of Defense. (December 2016).

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Reviewer, Grant Proposal, 2012 Diabetes Research Center Pilot and Feasibility Grant Award. (May 2012).

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Reviewer, Grant Proposal, Jeffress Memorial Trust Grant. (2008).

**Reviewer, Abstracts for Scientific Meetings**

Reviewer, American College of Sports Medicine. (2024).

Reviewer, American College of Sports Medicine. (2023).

Reviewer, Southeast Chapter of the American College of Sports Medicine. (2022).

Reviewer, American College of Sports Medicine. (2022).

Reviewer, American College of Sports Medicine. (2021).

Reviewer, American College of Sports Medicine. (2020)

**Reviewer, Journal**

- Age and Ageing
- American Journal of Clinical Nutrition
- American Journal of Physiology: Endocrinology and Metabolism
- American Journal of Physiology: Regulatory, Integrative and Comparative Physiology
- Analytical Biochemistry
- BBA Bioenergetics
- Clinical Diabetes
- Diabetes
- Diabetes Care
- Diabetic Medicine
- Endocrinology
- European Journal of Applied Physiology
- JAMDA
- Journal of Applied Physiology
- Journal of Clinical Endocrinology and Metabolism
- Journal of Nutrition
- Journal of Sport Rehabilitation
- Nutrition Journal
- Physiological Reports
- PLosOne
- Obesity

