

**Jennifer Stevenson, Ph.D.**

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**Experience**

**University of Kentucky, Center for Clinical and Translational Science (CCTS), Lexington, KY 2014 - present**  
**Director, Biomarker Analysis Lab**

Research Faculty directing Core Lab functions that:

- Provide clinical and academic researchers
  - Research expertise and method recommendations
  - Grant budget preparation
  - Analytical laboratory services
    - Sample processing, storage, and shipping
    - Plate-based colorimetric, fluorescent, luminescent, electrochemiluminescent assays
    - Particular expertise in glucose metabolism, stress, and inflammation e.g., blood glucose and insulin; cytokines; and salivary cortisol, CRP, and sex hormones
- Provide CCTS Clinical Services Core
  - Technical training and support for early-stage investigators and nursing/coordinator staff
  - Instructions and logs for sample processing, tracking, and storage
  - Muscle biopsy tissue processing and storage
- Research mentor
  - Provide high school students with clinical research learning opportunities
  - Provide junior clinical faculty with laboratory training
  - Participated in Dr. Martha Biddle's "Let's Talk Science" series for College of Nursing PhD Students

**University of Kentucky, College of Medicine, Lexington, KY**  
**Faculty Form F/Overload Committee**

**2022-present**

- Help identify potential faculty conflicts of interest or conflicts of commitment for work outside the University of Kentucky
  - Review Faculty Form F/Overload requests in consideration of:
    - federal laws
    - University Administrative Regulations
    - UK HealthCare policies
    - Offer Letter non-compete clauses
    - Kentucky Medical Services Foundation (KMSF) rules.
  - Required Form F disclosures include:
    - Any work outside the usual assignment, internal or external
    - Professional or educational outside activities
    - Services on boards, committees, or commissions
    - Speeches or lectures (paid/unpaid external or paid internal)
    - Oversight, supervision, or other participation with any entity or person involved with education
    - Research, health, or medical care outside the Distribution of Effort (DOE)

**University of Kentucky, Department of Physiology, College of Medicine, Lexington, KY**  
**Research Assistant Professor**

**2003 - 2014**

Research Faculty investigating the molecular mechanisms of muscle weakness with chronic inflammation.  
Responsibilities:

- Grant writing and manuscript preparation
- Post-graduate, graduate, and undergraduate mentoring
- Design and implementation of experiments that utilize
  - Western blotting
  - Cell culture
  - PCR, real time-PCR
  - cDNA cloning, overexpression, and siRNA silencing
  - High throughput fluorometric enzyme assays
  - HPLC analysis of fluorometric enzyme assays
  - Immunofluorescence confocal microscopy

**Experience (continued)**

**BD Biosciences**

**1998 - 2003**

**Manager, Custom Research Group** – Transduction Laboratories, Lexington, KY 2000 – 2003

Responsibilities:

- Trade show planning and marketing seminars
- Management of 3-5 laboratories scientists
- Oversight of custom multiplex western blotting services, 900+ proteins
  - Pharmaceutical
  - Biotechnology
  - University researchers
- Quality control
- Troubleshooting
- Customer interface
- Data analysis

Achievements:

- Research, development, and process improvement
  - Introduced new technologies
  - Implemented efficiencies
  - Improved quality and throughput of custom services
  - Reduced labor, materials, and standard cost by 75%

**Technical Services Scientist** – Pharmingen, San Diego, CA

1998 - 2000

- Provided technical service for
  - Cell biology
  - Flow cytometry
  - Molecular biology

**Pacific Pharmaceuticals**, San Diego, CA

**1998 - 1998**

**Product Manager, Cancer Drug Development**

- Co-managed pre-clinical studies of chemosensitizing agents
- Contributed to preparation of New Drug Applications for FDA approval

**University of Arizona**, Tucson, AZ

**Teaching Assistant**, Molecular and Cellular Biology

**1987 - 1990**

- Taught laboratory courses in Biology, Molecular Biology, and Biochemistry

**PanLabs**, Seattle, WA

**1986 - 1987**

**Laboratory Assistant**

- Prepared buffers, media, and plasmid DNAs for research scientists

**Solar King**, Waco, TX

**1983 - 1985**

**Laboratory Assistant**

- Monitored performance of solar powered air-conditioning technology

**Education**

1994 -1998

**Post-Doctoral Fellowship**, The Salk Institute, La Jolla, CA

Dr. Inder Verma, Advisor. Studied mechanisms of NF-kappa-B in innate immunity.

1994

**Doctor of Philosophy**, Molecular and Cellular Biology, University of Arizona, Tucson, AZ

Dr. Richard Hallick, Advisor. Doctoral Dissertation: Transcription and intercistronic RNA processing of polycistronic operons of *Euglena gracilis* chloroplast.

1987

**Bachelor of Science**, Biological Sciences, University of Washington, Seattle, WA

1982 - 1985

**Attended Baylor University**, Department of Biological Sciences, Waco, TX

**Other Experience and Professional Memberships**

2013

Ad Hoc Reviewer, Biotechnology and Biological Sciences Research Council

2013-

Reviewer, Frontiers in Striated Muscle Physiology

2015-

Reviewer, Frontiers in Physiology

2015-

Reviewer, Frontiers in Cellular Biochemistry

2016-

Reviewer, Journal of Cachexia, Sarcopenia and Muscle

2017-

Reviewer, Molecular Biology Reports

2003-

Member, American Physiological Society

1995-

Member, American Society for Cell Biology

### **Invited Seminars**

Physiology Seminar Series, University of Kentucky, Lexington, KY (2022) Title: A tale of two mysteries: cancer cachexia & clinical research.

Markey Cancer Center Seminar Series, University of Kentucky, Lexington, KY (2014) Title: Paracrine signaling between cancer cells and skeletal muscle.

Muscle Forum, University of Kentucky, Lexington, KY. (2010) Title: Sphingolipid Signaling in Skeletal Muscle.

Free Radical Underground Research Conference, Gainesville, FL. (2009) Title: Cellular Prion Protein in Skeletal Muscle.

Free Radical Underground Research Conference, Gainesville, FL. (2007) Title: The Forkhead-box Transcription Factor Foxo4 is Important for TNF-Induced Atrogin-1 Expression.

Fred Hutchinson Cancer Research Center, Salk/Seattle Conference. (1995) Title: Purification of I-kappa-B kinases.

The International Society for Plant molecular Biology. (1992) Title: Intercistronic processing of a chloroplast pre-mRNA coding for protein component of photosystem I and II reaction centers.

UCLA Keystone Symposia (Molecular Evolution of Introns and Other RNA Elements. (1991) Title: Group III intercistronic introns in polycistronic ribosomal protein operons of *E. gracilis* chloroplast.

### **Marketing Presentations**

American Society for Cell Biology Conference Workshop. (2002) Title: BD PowerBlot: Multiplex Western Blotting for Proteomic Analysis of 900+ Signal Transduction Proteins.

GlaxoSmithKline. (2002) Title: BD PowerBlot: Multiplex Western Blotting for Proteomic Analysis of 900+ Signal Transduction Proteins.

American Society for Cell Biology Conference Workshop. (2001) Title: Western Blot Screening of Over 800 Signal Transduction Proteins.

Eli Lilly. (2001) Title: Western Blot Screening of Over 800 Signal Transduction Proteins.

Emory University. (2001) Title: Western Blot Screening of Over 800 Signal Transduction Proteins.

American Society for Cell Biology Conference Workshop. (2000) Title: Western Array Analysis of Protein Expression in Apoptotic Fibroblasts.

### **Graphic Art**

Bernhard Hennig. (2018) PCBs Increase Inflammation, Disrupt Gut Microbiome, and Alter Metabolism. Superfund Research Program Research Brief 287 (Graphics by **Jennifer Moylan**).

### **CCTS-Biomarker Analysis Lab Supported Publications**

**Andriankaja OM**, Pérez CM, Modi A, Suárez EL, Gower BA, Rodríguez E, Joshipura K. Systemic Inflammation, Endothelial Function, and Risk of Periodontitis in Overweight/Obese Adults. *Biomedicines*. 2023 May 23;11(6):1507. doi: 10.3390/biomedicines11061507.

**Abu Jawdeh EG**, Hunt CE, Eichenwald E, Corwin MJ, McEntire B, Heeren T, Crowell LM, Ikponmwonba C, Saroufim A, Kerr S; ICAF Study Group. Adverse effects of COVID-19 pandemic on a multicenter randomized controlled trial. *J Perinatol*. 2023 May;43(5):653-658. doi: 10.1038/s41372-022-01592-2. Epub 2022 Dec 29.

Griffith AK, Martel MM, Eisenlohr-Moul T, **Fillmore MT**. Heightened sensitivity to the disinhibiting effect of alcohol in women during the late follicular phase of the menstrual cycle. *Exp Clin Psychopharmacol*. 2023 Aug;31(4):839-848. doi: 10.1037/pha0000611. Epub 2022 Oct 20.

**Jacobs CA**, Stone AV, Conley CEW, Abed V, Huebner JL, Kraus VB, Smith SE, Lattermann C. Increased Effusion Synovitis for Those With a Dysregulated Inflammatory Response After an Anterior Cruciate Ligament Injury. *Cureus*. 2023 Apr 20;15(4):e37862. doi: 10.7759/cureus.37862. eCollection 2023 Apr.

**Jacobs CA**, Olsen ZM, Marchand LS, Kraus VB, Anderson DD, Haller J. The Inflammotype: a patient phenotype characterized by a dysregulated inflammatory response after lower extremity articular fracture. *Inflamm Res*. 2023 Jan;72(1):9-11. doi: 10.1007/s00011-022-01661-4. Epub 2022 Oct 29.

Reed RG, Presnell SR, Al-Attar A, Lutz CT, **Segerstrom SC**. Life stressors and immune aging: Protective effects of cognitive reappraisal. *Brain Behav Immun*. 2023 May;110:212-221. doi: 10.1016/j.bbi.2023.02.018. Epub 2023 Mar 8.

Sullivan B, Stone AV, Conley CEW, Hunt ER, Lattermann C, **Jacobs CA**. Human synovial fluid interleukin-6, but not type II collagen breakdown, positively correlated with pain after anterior cruciate ligament injury and reconstruction (2022) *J Orthop Res*. 2022 Apr 30. doi: 10.1002/jor.25355. Online ahead of print.PMID: 35488724

Long DE, Peck BD, Lavin KM, Dungan CM, Kosmac K, Tuggle SC, Bamman MM, **Kern PA, Peterson CA**. (2022) Skeletal muscle properties show collagen organization and immune cell content are associated with resistance exercise response heterogeneity in older persons. *J Appl Physiol* (1985). 2022 Jun 1;132(6):1432-1447. doi: 10.1152/jappphysiol.00025.2022. Epub 2022 Apr 28.PMID: 35482328

**Jacobs CA**, Conley CEW, Kraus VB, Lansdown DA, Lau BC, Li X, Majumdar S, Spindler KP, Lemaster NG, Stone AV. (2022) MONTelukast as a potential CHondroprotective treatment following Anterior cruciate ligament reconstruction (MOCHA Trial): study protocol for a double-blind, randomized, placebo-controlled clinical trial. *Trials*. 2022 Jan 31;23(1):98. doi: 10.1186/s13063-021-05982-3.PMID: 35101085

Collett JA, Ortiz-Soriano V, Li X, Flannery AH, Toto RD, Moe OW, Basile DP, **Neyra JA**. (2022) Serum IL-17 levels are higher in critically ill patients with AKI and associated with worse outcomes. *Crit Care*. 2022 Apr 14;26(1):107. doi: 10.1186/s13054-022-03976-4.PMID: 35422004

Gloger EM, **Segerstrom SC**. (2022) Repetitive thought, cognition, and systemic inflammation in the midlife in the United States study. *Psychol Health*. 2022 Jun 27:1-19. doi: 10.1080/08870446.2022.2092104. Online ahead of print.PMID: 35758133

**Segerstrom SC**, Reed RG, Karr JE. (2022) Cytomegalovirus and Toxoplasma Gondii Serostatus Prospectively Correlated With Problems in Self-Regulation but not Executive Function Among Older Adults. *Psychosom Med*. 2022 Jun 1;84(5):603-611. doi: 10.1097/PSY.0000000000001086. Epub 2022 Apr 14.PMID: 35420585

**Segerstrom SC**, Reed RG, Presnell SR, Al-Attar A, Lutz CT. (2022) Resources and lymphocyte terminal maturity among older adults. *Health Psychol*. 2022 Aug 18. doi: 10.1037/hea0001180. Online ahead of print.PMID: 35980722

**Ashford K**, McCubbin A, Barnett J, Blair LM, Lei F, Bush H, Breland A. (2021) Longitudinal Examination of Prenatal Tobacco Switching Behaviors and Birth Outcomes, Including Electronic Nicotine Delivery System (ENDS) and Dual Use. *Matern Child Health J*. 2021 Aug;25(8):1175-1181. doi: 10.1007/s10995-021-03161-z. Epub 2021 May 10.PMID: 33973130

Finlin BS, Memetimin H, Zhu B, Confides AL, Vekaria HJ, El Khouli RH, Johnson ZR, Westgate PM, Chen J, Morris AJ, Sullivan PG, Dupont-Versteegden EE, **Kern PA**. (2021) Pioglitazone does not synergize with mirabegron to increase beige fat or further improve glucose metabolism. *JCI Insight*. 2021 Mar 22;6(6):e143650. doi: 10.1172/jci.insight.143650.PMID: 33571166

**Jacobs CA**, Mace RA, Greenberg J, Popok PJ, Reichman M, Lattermann C, Burris JL, Macklin EA, Vranceanu AM. (2021) Development of a mind body program for obese knee osteoarthritis patients with comorbid depression. *Contemp Clin Trials Commun*. 2021 Jan 28;21:100720. doi: 10.1016/j.conctc.2021.100720. eCollection 2021 Mar.PMID: 33553798

Hunt ER, **Jacobs CA**, Conley CE, Ireland ML, Johnson DL, **Lattermann C**. (2021) Anterior cruciate ligament reconstruction reinitiates an inflammatory and chondrodegenerative process in the knee joint. *J Orthop Res*. 2021 Jun;39(6):1281-1288. doi: 10.1002/jor.24783. Epub 2020 Jun 29.PMID: 32558951

**Flannery AH**, Ortiz-Soriano V, Li X, Gianella FG, Toto RD, Moe OW, Devarajan P, Goldstein SL, Neyra JA. (2021) Serum renin and major adverse kidney events in critically ill patients: a multicenter prospective study. *Crit Care*. 2021 Aug 14;25(1):294. doi: 10.1186/s13054-021-03725-z.PMID: 34391450

Long DE, Peck BD, Tuggle SC, Villasante Tezanos AG, Windham ST, Bamman MM, **Kern PA, Peterson CA**, Walton RG. (2021) Associations of muscle lipid content with physical function and resistance training outcomes in older adults: altered responses with metformin. *Geroscience*. 2021 Apr;43(2):629-644. doi: 10.1007/s11357-020-00315-9. Epub 2021 Jan 18.PMID: 33462708

Valentino TR, Vechetti IJ Jr, Mobley CB, Dungan CM, Golden L, Goh J, **McCarthy JJ**. (2021) Dysbiosis of the gut microbiome impairs mouse skeletal muscle adaptation to exercise. *J Physiol*. 2021 Nov;599(21):4845-4863. doi: 10.1113/JP281788. Epub 2021 Oct 8.PMID: 34569067

Zwischenberger BA, Balasuriya BK, Harris DD, Nataraj N, Owen AM, Bruno MEC, Mukherjee S, Ortiz-Soriano V, O'Connor W, Ke C, Stromberg AJ, Chang PK, Neyra JA, Saito H, **Starr ME**. (2021) Adipose-Derived Inflammatory and Coagulant Mediators in Patients With Sepsis. *Shock*. 2021 May 1;55(5):596-606. doi: 10.1097/SHK.0000000000001579.PMID: 32496420

**Ashford K**, McCubbin A, Rayens MK, Wiggins A, Dougherty K, Sturgill J, Ickes M. (2020) ENDS use among college students: Salivary biomarkers and persistent cough. *Addict Behav*. 2020 Sep;108:106462. doi: 10.1016/j.addbeh.2020.106462. Epub 2020 May 13.PMID: 32442871

**Flack KD**, Hays HM, Moreland J, Long DE. Exercise for Weight Loss: Further Evaluating Energy Compensation with Exercise. (2020) *Med Sci Sports Exerc*. 2020 Nov;52(11):2466-2475. doi: 10.1249/MSS.0000000000002376.PMID: 33064415

Hunt ER, Villasanta-Tezanos AG, Butterfield TA, Lattermann C, **Jacobs CA**. Upregulation of Systemic Inflammatory Pathways Following Anterior Cruciate Ligament Injury Relates to Both Cartilage and Muscular Changes: A Pilot Study. *J Orthop Res*. 2020 Feb;38(2):387-392. doi: 10.1002/jor.24467. Epub 2019 Sep 25.PMID: 31517396

Jacobs CA, Hunt ER, Conley CE, Johnson DL, Stone AV, Huebner JL, Kraus VB, **Lattermann C**. (2020) Dysregulated Inflammatory Response Related to Cartilage Degradation after ACL Injury. *Med Sci Sports Exerc*. 2020 Mar;52(3):535-541. doi: 10.1249/MSS.0000000000002161.PMID: 31524832

Kulkarni AS, Peck BD, Walton RG, **Kern PA**, Mar JC, Windham ST, Bamman MM, Barzilai N, **Peterson CA**. (2020) Metformin alters skeletal muscle transcriptome adaptations to resistance training in older adults. *Aging (Albany NY)*. 2020 Oct 18;12(20):19852-19866. doi: 10.18632/aging.104096. Epub 2020 Oct 18.

Dungan CM, Peck BD, Walton RG, Huang Z, Bamman MM, **Kern PA**, **Peterson CA**. (2020) In vivo analysis of  $\gamma$ H2AX+ cells in skeletal muscle from aged and obese humans. *FASEB J*. 2020 May;34(5):7018-7035. doi: 10.1096/fj.202000111RR. Epub 2020 Apr 4.PMID: 32246795

Finlin BS, Memetimin H, Zhu B, Confides AL, Vekaria HJ, El Khouli RH, Johnson ZR, Westgate PM, Chen J, Morris AJ, Sullivan PG, Dupont-Versteegden EE, **Kern PA**. (2020) The  $\beta$ 3-adrenergic receptor agonist mirabegron improves glucose homeostasis in obese humans. *J Clin Invest*. 2020 May 1;130(5):2319-2331. doi: 10.1172/JCI134892.PMID: 31961829

Thomas JM, Kern PA, Bush HM, McQuerry KJ, Black WS, Clasey JL, **Pendergast JS**. (2020) Circadian rhythm phase shifts caused by timed exercise vary with chronotype. *JCI Insight*. 2020 Feb 13;5(3):e134270. doi: 10.1172/jci.insight.134270.PMID: 31895695

Kulkarni AS, Peck BD, Walton RG, Kern PA, Mar JC, Windham ST, Bamman MM, Barzilai N, **Peterson CA**. (2020) Metformin alters skeletal muscle transcriptome adaptations to resistance training in older adults. *Aging (Albany NY)*. 2020 Oct 18;12(20):19852-19866. doi: 10.18632/aging.104096. Epub 2020 Oct 18.PMID: 33071237

Rush CR, Strickland JC, Pike E, Studts CR, **Stoops WW**. (2020) Inhibitory-control training for cocaine use disorder and contingency management for clinic attendance: A randomized pilot study of feasibility, acceptability and initial efficacy. *Drug Alcohol Depend*. 2020 Feb 1;207:107803. doi: 10.1016/j.drugalcdep.2019.107803. Epub 2019 Dec 16.PMID: 31864166

**Ashford K**, Fallin-Bennett A, McCubbin A, Wiggins A, Barnhart S, Lile J. Associations of first trimester co-use of tobacco and Cannabis with prenatal immune response and psychosocial well-being. (2019) *Neurotoxicol Teratol*. 2019 May-Jun;73:42-48. doi: 10.1016/j.ntt.2019.03.002. Epub 2019 Mar 29.PMID: 30936023

Walton RG, Dungan CM, Long DE, Tuggle SC, Kosmac K, Peck BD, Bush HM, Villasanta Tezanos AG, McGwin G, Windham ST, Ovalle F, Bamman MM, **Kern PA**, Peterson CA. (2019) Metformin blunts muscle hypertrophy in response to progressive resistance exercise training in older adults: A randomized, double-blind, placebo-

controlled, multicenter trial: The MASTERS trial. *Aging Cell*. 2019 Dec;18(6):e13039. doi: 10.1111/accel.13039. Epub 2019 Sep 26. PMID: 31557380

Finlin BS, Zhu B, Boyechko T, Westgate PM, Chia CW, Egan JM, **Kern PA**. (2019) Effect of Rifaximin Treatment on Endotoxemia and Insulin Sensitivity in Humans. *J Endocr Soc*. 2019 Jun 26;3(9):1641-1651. doi: 10.1210/js.2019-00148. eCollection 2019 Sep 1. PMID: 31428718

Walton RG, Kosmac K, Mula J, Fry CS, Peck BD, Groshong JS, Finlin BS, Zhu B, Kern PA, **Peterson CA**. (2019) Human skeletal muscle macrophages increase following cycle training and are associated with adaptations that may facilitate growth. *Sci Rep*. 2019 Jan 30;9(1):969. doi: 10.1038/s41598-018-37187-1. PMID: 30700754

Peck BD, Brightwell CR, Johnson DL, Ireland ML, **Noehren B**, Fry CS. (2019) Anterior Cruciate Ligament Tear Promotes Skeletal Muscle Myostatin Expression, Fibrogenic Cell Expansion, and a Decline in Muscle Quality. *Am J Sports Med*. 2019 May;47(6):1385-1395. doi: 10.1177/0363546519832864. Epub 2019 Apr 17. PMID: 30995070

Erickson LN, Lucas KCH, Davis KA, Jacobs CA, Thompson KL, Hardy PA, Andersen AH, Fry CS, **Noehren BW**. (2019) Effect of Blood Flow Restriction Training on Quadriceps Muscle Strength, Morphology, Physiology, and Knee Biomechanics Before and After Anterior Cruciate Ligament Reconstruction: Protocol for a Randomized Clinical Trial. *Phys Ther*. 2019 Aug 1;99(8):1010-1019. doi: 10.1093/ptj/pzz062. PMID: 30951598

Reed RG, Al-Attar A, Presnell SR, Lutz CT, **Segerstrom SC**. (2019) A longitudinal study of the stability, variability, and interdependencies among late-differentiated T and NK cell subsets in older adults. *Exp Gerontol*. 2019 Jul 1;121:46-54. doi: 10.1016/j.exger.2019.03.006. Epub 2019 Mar 15. PMID: 30885717

Reed RG, Presnell SR, Al-Attar A, Lutz CT, **Segerstrom SC**. (2019) Perceived stress, cytomegalovirus titers, and late-differentiated T and NK cells: Between-, within-person associations in a longitudinal study of older adults. *Brain Behav Immun*. 2019 Aug;80:266-274. doi: 10.1016/j.bbi.2019.03.018. Epub 2019 Mar 15. PMID: 30885843

**Keller PS**, Bi S, Schoenberg N. (2018) Children being Reared by their Grandparents in Rural Appalachia: A Pilot Study of Relations Between Psychosocial Stress and Changes in Salivary Markers of Inflammation Over Time. *J Child Adolesc Trauma*. 2018 Jun 8;12(2):269-277. doi: 10.1007/s40653-018-0214-z. eCollection 2019 Jun. PMID: 32318198

**Lattermann C**, Conley CE, Johnson DL, Reinke EK, Huston LJ, Huebner JL, Chou CH, Kraus VB, Spindler KP, Jacobs CA. (2018) Select Biomarkers on the Day of Anterior Cruciate Ligament Reconstruction Predict Poor Patient-Reported Outcomes at 2-Year Follow-Up: A Pilot Study. *Biomed Res Int*. 2018 Jul 19;2018:9387809. doi: 10.1155/2018/9387809. eCollection 2018. PMID: 30105266

Kosmac K, Peck BD, Walton RG, Mula J, Kern PA, Bamman MM, Dennis RA, Jacobs CA, Lattermann C, Johnson DL, **Peterson CA**. (2018) Immunohistochemical Identification of Human Skeletal Muscle Macrophages. *Bio Protoc*. 2018 Jun 20;8(12):e2883. doi: 10.21769/BioProtoc.2883. PMID: 30148186

Finlin BS, Memetimin H, Confides AL, Kasza I, Zhu B, Vekaria HJ, Harfmann B, Jones KA, Johnson ZR, Westgate PM, Alexander CM, Sullivan PG, Dupont-Versteegden EE, **Kern PA**. (2018) Human adipose being in response to cold and mirabegron. *JCI Insight*. 2018 Aug 9;3(15):e121510. doi: 10.1172/jci.insight.121510. eCollection 2018 Aug 9. PMID: 30089732

**Noehren B**, Kosmac K, Walton RG, Murach KA, Lyles MF, Loeser RF, Peterson CA, Messier SP. (2018) Alterations in quadriceps muscle cellular and molecular properties in adults with moderate knee osteoarthritis. *Osteoarthritis Cartilage*. 2018 Oct;26(10):1359-1368. doi: 10.1016/j.joca.2018.05.011. Epub 2018 May 23. PMID: 29800621

**Lattermann C**, Jacobs CA, Proffitt Bunnell M, Huston LJ, Gammon LG, Johnson DL, Reinke EK, Huebner JL, Kraus VB, Spindler KP. (2017) A Multicenter Study of Early Anti-inflammatory Treatment in Patients With Acute Anterior Cruciate Ligament Tear. *Am J Sports Med*. 2017 Feb;45(2):325-333. doi: 10.1177/0363546516666818. Epub 2016 Oct 7. PMID: 28146402

**Kern PA**, Finlin BS, Ross D, Boyechko T, Zhu B, Grayson N, Sims R, Bland JS. (2017) Effects of KDT501 on Metabolic Parameters in Insulin-Resistant Prediabetic Humans. *J Endocr Soc*. 2017 Apr 21;1(6):650-659. doi: 10.1210/js.2017-00202. eCollection 2017 Jun 1. PMID: 29264518

Finlin BS, Zhu B, Kok BP, Godio C, Westgate PM, Grayson N, Sims R, Bland JS, Saez E, **Kern PA.** (2017) The Influence of a KDT501, a Novel Isohumulone, on Adipocyte Function in Humans. *Front Endocrinol (Lausanne)*. 2017 Sep 29;8:255. doi: 10.3389/fendo.2017.00255. eCollection 2017.PMID: 29033896

Fry CS, Johnson DL, Ireland ML, **Noehren B.** (2017) ACL injury reduces satellite cell abundance and promotes fibrogenic cell expansion within skeletal muscle. *J Orthop Res*. 2017 Sep;35(9):1876-1885. doi: 10.1002/jor.23502. Epub 2017 Jan 15.PMID: 27935172

**Segerstrom SC,** Reed RG, Scott AB. (2017) Intelligence and Interleukin-6 in Older Adults: The Role of Repetitive Thought. *Psychosom Med*. 2017 Sep;79(7):757-762. doi: 10.1097/PSY.0000000000000479.PMID: 28445209

Steele AM, Starr ME, **Saito H.** (2017) Late Therapeutic Intervention with Antibiotics and Fluid Resuscitation Allows for a Prolonged Disease Course with High Survival in a Severe Murine Model of Sepsis. *Shock*. 2017 Jun;47(6):726-734. doi: 10.1097/SHK.0000000000000799.PMID: 27879561

**Noehren B,** Andersen A, Hardy P, Johnson DL, Ireland ML, Thompson KL, Damon B. (2016) Cellular and Morphological Alterations in the Vastus Lateralis Muscle as the Result of ACL Injury and Reconstruction. *J Bone Joint Surg Am*. 2016 Sep 21;98(18):1541-7. doi: 10.2106/JBJS.16.00035.PMID: 27655981

### **Publications**

Moran JH, Kessler L, **Moylan J,** Forrest C, Boehme K, Kennedy J, Greninger A, Baird G, Olgaard E, James L.J (2021) Modifying laboratory testing via home brew during the COVID-19 pandemic. *Clin Transl Sci*. 5(1):e93. doi: 10.1017/cts.2021.5. PMID: 34192050

Linares AM, Rayens MK, **Moylan JS,** Miller CS Degree of Agreement Between Infant Serum and Salivary Concentration of Leptin and Adiponectin and Its Association With Infants' Feeding. (2021) *Biol Res Nurs*. 2021 Jul;23(3):541-549. doi: 10.1177/1099800420973366. Epub 2020 Nov 28. PMID: 33251850

Ahn B, Coblentz PD, Beharry AW, Patel N, Judge AR, **Moylan JS,** Hoopes CW, Bonnell MR, Ferreira LF. (2017) Diaphragm Abnormalities in Patients with End-Stage Heart Failure: NADPH Oxidase Upregulation and Protein Oxidation. *Front Physiol*, 7:686, eCollection.

McLean JB, **Moylan JS,** Horrell EM, Andrade FH. (2015) Proteomic analysis of media from lung cancer cells reveals role of 14-3-3 proteins in cachexia. *Front Physiol*, 6:136, eCollection.

**Moylan JS.** (2015) Preserving muscle health and wellbeing for long-term cancer survivors. *J Physiol* 593:1767-8.

McLean JB, **Moylan JS,** Andrade FH. (2014) Mitochondria dysfunction in lung cancer-induced muscle wasting in C2C12 myotubes. *Front Physiol* 5:503.

**Moylan JS,** Smith JD, Wolf Horrell EM, McLean JB, Deevska GM, Bonnell MR, Nikolova-Karakashian MN, Reid MB. (2014) Neutral sphingomyelinase-3 mediates TNF-stimulated oxidant activity in skeletal muscle. *Redox Biol* 2:910-20.

Stasko SA, Hardin BJ, Smith JD, **Moylan JS,** Reid MB. (2013) TNF Signals via Neuronal-Type Nitric Oxide Synthase and Reactive Oxygen Species to Depress Specific Force of Skeletal Muscle. *J Appl Physiol* 114:1629-36.

Ferreira LF, **Moylan JS,** Stasko S, Smith JD, Campbell KS, Reid MB. (2012) Sphingomyelinase depresses force and calcium sensitivity of the contractile apparatus in mouse diaphragm muscle fibers. *J Appl Physiol* 112:1538-45.

Gilliam LA, **Moylan JS,** Patterson EW, Smith JD, Wilson AS, Rabbani Z, Reid MB. (2012) Doxorubicin acts via mitochondrial ROS to stimulate catabolism in C2C12 myotubes. *Am J Physiol Cell Physiol* 302:C195-202.

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Key Person

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National Institutes on Drug Abuse: Improving Opioid Use Disorder Treatment Retention Outcomes Using  
Mindfulness in Childhood Trauma Survivors  
Co-Investigator  
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