

# 2020 CHS Faculty Scholarly Work

## Patents

Li, James, **Dominguez, D.**, & Zuo, Peng. Methods and Compositions for Hybrid Microfluidic Devices Integrated with Nano Biosensors. Patent No. 10,620,200. Issue Date: April 14, 2020.

Li, James, **Dominguez, D.**, & Duo, M. Methods and Compositions for Paper-Based and Hybrid Microfluidic Devices Integrated with Nucleic Acid Amplification for Disease Diagnosis. Patent No. 10,875,024. Issue Date: December 29, 2020.

## Books and Book Chapters

Chan, F., Iwanaga, K., **Umucu, E.**, Yaghmaian, R., Wu, J-R., Bengtson, K., Chen, X. (2020). "Evidence-Based Practice and Research Utilization." In X (Ed.), *The Professional Practice of Rehabilitation Counseling*.

**Moya, E., Chavez-Baray, S.**, & Hotez, P. (2020). "U.S.-Mexico Border: Non-Communicable and Communicable Health Inequalities." In A. Payan & J. Velasco (Eds.), *The Future of U.S.-Mexico Relations: Strategic Foresight*. Arte Publico Press. ISBN: 1518506119.

**Moya, E., Chavez-Baray, S.**, & Monroy, M. (2020). "Health Institutions at the U.S.-Mexico Border." In A. Payan & P. Cruz (Eds.), *Binational Commons: Institutional Development and Governance on the U.S.-Mexico Border*. University of Arizona Press. ISBN: 9780816541058.

Abbassi, E. & **Sirmon-Taylor, B.** (2019). "Priming." In J. S. Damico & M. J. Ball (Eds.), *The SAGE Encyclopedia of Human Communication Sciences and Disorders*. Thousand Oaks, CA: SAGE Publ.

Castañeda, E., Collazos, N., **Moya, E.M., & Chavez-Baray, S.M.** (2019). "Fear of Deportation among Mexicans Fleeing Violence." In Ernesto Castaneda (Ed.), Building Walls: Excluding Latin People in the United States. Maryland: Lexington Books. ISBN: 9781498585651 (cloth paper) 9781498585668 (electronic).

**Chávez-Baray, S. M., & Moya, E. M.** (2019). "Problemas de Salud Fronteriza y Trata de Personas." In Patricia Ravelo Blancas and Montserrat Bosch Heras (Ed.), Violencias y feminismos. Desafíos actuales. Antología (1st Edition, pp. 193-207). Colonia Xoco, Delegación Benito Juárez: Colección Diversidad Sin Violencia. Application, Engagement & Integration. ISBN: 978-607-8732-005.

**Dominguez, D.** and Meza-Rodriguez, S. (2019). Development of antimicrobial resistance: Future challenges. In M.N. Prasad, M. Vithange, & A. Kapley (Eds.). Pharmaceuticals and Personal Care Products: Waste management and Treatment technologies (pp. 383-408). Elsevier.

**Moya, E.M.** (2019). Bilingual Guide to Cultivando Valores - Cultivating Values Booklets. Consulado General de Mexico in El Paso. One of three bilingual booklets (i.e. Respect and Honesty).

**Moya, E.M., & Chavez-Baray, S.** (2019). (Eds). Photovoice: Participation and Empowerment in Research (Social Issues Justice and Status) Nova Science Pub Inc. Published October 17, 2019. ISBN: 978-1536162011.

**Moya, E.M., & Chavez Baray, S.M.** (2019). "The Use of Photovoice in Qualitative Research." In Eva M. Moya and Silvia M. Chavez-Baray (Eds.), Photovoice: Participation and Empowerment in Research. Hauppauge, New York: Nova Science Publishers, Inc.

**Moya, E.M., Chavez Baray, S.M., & Martinez-Soto, E. Aileen** (2019). "Photovoice a High-Impact Educational Practice at the Opportunity Center for the Homeless." In Eva M. Moya and Silvia M. Chavez-Baray (Ed.), Photovoice: Participation and Empowerment in Research. Hauppauge, Hauppauge, New York: Nova Science Publishers, Inc. ISBN: 9781498585651

Salvatore, AP & **Sirmon-Taylor, B.** (2019). "Concussion." In J. S. Damico & M. J. Ball (Eds.), *The SAGE Encyclopedia of Human Communication Sciences and Disorders*. Thousand Oaks, CA: SAGE Publ.

**Sirmon-Taylor, B.** (2019). "Standardized assessment." In J. S. Damico & M. J. Ball (Eds.), *The SAGE Encyclopedia of Human Communication Sciences and Disorders*. Thousand Oaks, CA: SAGE Publ.

Yaghmaian, R., Iwanaga, K, Wu, J. R., Chen, X., **Umucu, E.**, Tao, J., Livneh, H., & Chan, F. (2019)."Reducing prejudice toward people with disabilities." In D. Dunn (Ed.), *Understanding the experience of disability: Perspectives from social and rehabilitation psychology* (pp. 52-73). New York, NY: Oxford University Press.

## Published Abstracts

Aguilera, J., Fuentes, R., Morales-Acuña, F., Irigoyen, K., Gomez, M., & **Gurovich, A.** (2020). Boxing Training Effects on Cardiorespiratory Fitness in Individuals With Prehypertension: 1648 Board #242 May 28 10:30 AM - 12:00 PM. *Medicine & Science in Sports & Exercise*. 52. 440-441. 10.1249/01.mss.0000678688.24898.53.

**Bajpeyi, S.**, Galvan, M., & Sanchez, M., **Boyle, J., Min, K.**, Agullo, F., & Covington, J. (2020). 846-P: Improvement in Glucose Metabolism with Four Weeks of Neuromuscular Electrical Stimulation in Sedentary Adults. *Diabetes*. 69. 846-P. 10.2337/db20-846-P.

**Bialunska, A.** (2020). Traces Left on Timing Mechanisms by Mild Traumatic Brain Injury Years after Injury. *Archives of Physical Medicine and Rehabilitation*. 101. e57-e58. 10.1016/j.apmr.2020.09.172.

Caraveo, P., Morales-Acuña, F., Rico, A., Gajardo, C., Gomez, M., Rodriguez, L., & **Gurovich, A.** (2020). Boxing Training Effects On Brachial And Popliteal Endothelial Function In Prehypertensive Individuals: 2873 Board #334 May 29 10:30 AM - 12:00 PM. *Medicine & Science in Sports & Exercise*. 52. 798-799. 10.1249/01.mss.0000683932.28427.4c.

Cereceres, P., **Manning, R., & Boyle, J.B.** (2020). Imagined and Executed Upper Extremity Reach in Children Diagnosed with Autism Spectrum Disorder. *Journal of Sport and Exercise Psychology*, 42.

Conde, D., Gomez, M., Garcia, M., Morales-Acuña, F., & **Gurovich, A.** (2020). Effects of in-vitro exercise-induced endothelial shear stress on adhesion molecule gene expression. *The FASEB Journal*. 34. 1-1. 10.1096/fasebj.2020.34.s1.07329.

Diaz, C., Cereceres, P., **Bialunska, A., Manning, R., & Boyle, J.** (2020). Upper Extremity Control in Children Diagnosed with ASD: The Role of Vision and Proprioception in Sine Wave Tracking. In *JOURNAL OF SPORT & EXERCISE PSYCHOLOGY* (Vol. 42, pp. S33-S34).

Dietze-Hermosa, M., Montalvo, S., Gonzalez, M., & **Dorgo, S.** (2020). Association between the modified Functional Movement Screen™ scores, fear of falling, and self-perceived balance in active older adults. *Topics in Geriatric Rehabilitation*. 37. 10.1097/TGR.0000000000000306.

Gomez, M., Morales-Acuña, F., & **Gurovich, A.** (2020). Comparison of Oxyhemoglobin, Deoxyhemoglobin, Tissue Oxygen Saturation, and Venous Occlusion Plethysmography: 2878 Board #339 May 29 10:30 AM - 12:00 PM. *Medicine & Science in Sports & Exercise*. 52. 801-801. 10.1249/01.mss.0000683952.03586.c4.

Gomez, M., Morales-Acuña, F., Rodriguez, L., Caraveo, P., & **Gurovich, A.** (2020). Endothelial shear stress in the common carotid artery during boxing training in prehypertension. *The FASEB Journal*. 34. 1-1. 10.1096/fasebj.2020.34.s1.08688.

Mazza, J., Festa, R., Prieto, S., D'Andrea, G., Pasquali, M., & **Gurovich, A.** (2020). Blood Lactate Steady State Is Maintained During Moderate Intensity Interval Training Depending Rest Time Duration: 2996 May 29 2:00 PM - 2:15 PM. *Medicine & Science in Sports & Exercise*. 52. 834-834. 10.1249/01.mss.0000684508.12644.3e.

Montalvo, S., Gonzalez, M., Dietze-Hermosa, M., Rodriguez, S., Cubillos, N., **Ibarra-Mejia, G.**, & **Dorgo, S.** (2020). Association Between Pennation Angle of the Gastrocnemius and Reactive Strength Index. 2020 NSCA Research Abstracts, *Journal of Strength and Conditioning Research*: April 2021 – Volume 35 – Issue 4 – p e3-e288. doi: 10.1519/JSC.0000000000000387.

Montenegro, C., Vasquez, D., Rascon, J., Maddox, J., Morales, F., & **Gurovich, A.N.** (2020). Exercise-induced Blood Flow Patterns in Patients with Coronary Artery Disease, POSTER PRESENTATIONS, *Cardiopulmonary Physical Therapy Journal*: January 2020 - Volume 31 - Issue 1 - p e12-e27 doi: 10.1097/CPT.0000000000000135 CPTJ

Morales-Acuña, F., Gomez, M., Rodriguez, L., & **Gurovich, A.** (2020). Effects of Boxing Training on Peripheral And Central Blood Pressure And Arterial Stiffness In Prehypertension: 2874 Board #335 May 29 10:30 AM - 12:00 PM. *Medicine & Science in Sports & Exercise*. 52. 799-799. 10.1249/01.mss.0000683936.83800.67.

Rascon, J., Trujillo, E., Aguilar, B., Guerrero, M., Keller, A., Rico, A., Nunez, V., & **Gurovich, A.** (2020). PhUn Day: Third Times a Charm. *The FASEB Journal*. 34. 1-1. 10.1096/fasebj.2020.34.s1.06117.

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Sanchez, M., Galvan, M., Gandara, I., Nacim, D., Covington, J., **Boyle, J.**, Agullo, F., **Min, K.**, & **Bajpeyi, S.** (2020). Improvement In Insulin Sensitivity With Four Weeks Of Neuromuscular Electrical Stimulation In Overweight/obese Sedentary Adults: 510 Board #326 May 27 10:30 AM - 12:00 PM. *Medicine & Science in Sports & Exercise*. 52. 135-136. 10.1249/01.mss.0000671572.40023.33.

## Journal Articles

Adelle Dora Montebianco, **Eva M. Moya**, Photovoice: Integrating Course-Based Research in Undergraduate and Graduate Social Work Education, *The British Journal of Social Work*, 2020, bcaa154, <https://doi.org/10.1093/bjsw/bcaa154>

Allen, J.O., **Concha, J.B.**, Mejía Ruiz, M.J., Rapp, A., Montgomery, J., Smith, J., Wolfson, J A., Thornton, W., & Mezuk, B. (2020). Engaging Underserved Community Members in Diabetes Self-Management: Evidence from the YMCA of Greater Richmond Diabetes Control Program. *The Diabetes Educator*, 46(2), 169–180.  
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Amador, M., Meza, C. A., McAinch, A.J., King, G.A., Covington, J. D., & **Bajpeyi, S.** (2020). Exercise-Induced Improvements in Insulin Sensitivity Are Not Attenuated by a Family History of Type 2 Diabetes. *Frontiers in Endocrinology*, 11, 120.  
<https://doi.org/10.3389/fendo.2020.00120>

Anders, J., Keller, J.L., **Smith, C.M.**, Hill, E.C., Neltner, T.J., Housh, T.J., Schmidt, R.J., & Johnson, G.O. (2020). Performance fatigability and neuromuscular responses for bilateral and unilateral leg extensions in men. *Journal of musculoskeletal & neuronal interactions*, 20(3), 325–331.

Anders, J., Keller, J.L., **Smith, C.M.**, Hill, E.C., Neltner, T. J., Housh, T. J., Schmidt, R. J., & Johnson, G.O. (2020). Performance fatigability and neuromuscular responses for bilateral versus unilateral leg extensions in women. *Journal of electromyography and kinesiology : Official journal of the International Society of Electrophysiological Kinesiology*, 50, 102367. <https://doi.org/10.1016/j.jelekin.2019.102367>

Anders, J., Keller, J.L., **Smith, C.M.**, Hill, E.C., Housh, T.J., Schmidt, R.J., & Johnson, G.O. (2020). The Effects of Asparagus Racemosus Supplementation Plus 8 Weeks of Resistance Training on Muscular Strength and Endurance. *Journal of functional morphology and kinesiology*, 5(1), 4. <https://doi.org/10.3390/jfmk5010004>

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**Bajpeyi, S.**, Galvan, M., Sanchez, M., **Boyle, J.**, **Min, K.**, Agullo, F., & Covington, J. (2020). 846-P: Improvement in Glucose Metabolism with Four Weeks of Neuromuscular Electrical Stimulation in Sedentary Adults. *Diabetes*. 69. 846-P. 10.2337/db20-846-P.

Bohannon, N.A., Gillen, Z.M., Shoemaker, M.E., McKay, B.D., Gibson, S.M., & **Cramer, J.T.** (2020). Test-Retest Reliability of Static and Countermovement Power Push-Up Tests in Young Male Athletes. *Journal of strength and conditioning research*, 34(9), 2456–2464. <https://doi.org/10.1519/JSC.0000000000003684>

Boroumand, S., Stein, M.J., Jay, M., Shen, J.W., Hirsh, M., & **Dharamsi, S.** Addressing the health advocate role in medical education. *BMC Med Educ*;20 (1):28. Published 2020 Jan 30. doi:10.1186/s12909-020-1938-7

Brooks, J.M., Iwanaga, K., Chan, F., **Lee, B.**, Chen, X., Wu, J.R., Walker, R., & Fortuna, K.L. (2020). Psychometric validation of the Job Satisfaction of Persons with Disabilities Scale in a sample of peer support specialists. *Psychiatric rehabilitation journal*, 10.1037/prj0000411. Advance online publication. <https://doi.org/10.1037/prj0000411>

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Carlson, L. M., Champagne, F. A., Cory-Slechta, D. A., Dishaw, L., Faustman, E., Mundy, W., Segal, D., **Sobin, C.**, Starkey, C., Taylor, M., Makris, S. L., & Kraft, A. (2020). Potential frameworks to support evaluation of mechanistic data for developmental neurotoxicity outcomes: A symposium report. *Neurotoxicology and teratology*, 78, 106865. <https://doi.org/10.1016/j.ntt.2020.106865>

**Castillo, D.**, Trevino, L., Suarez, R., Arreola-Castaneda, G., **Fierro, C.**, & **Lin, M-L.** (2020) Aging in Place: Measuring Quality of Life of the Aging Population. *Am J Occup Ther* 2020;74(4\_Supplement\_1):7411505098. <https://doi.org/10.5014/ajot.2020.74S1-PO1610>

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Dietze-Hermosa, M., Montalvo, S., Cubillos, N. R., Gonzalez, M. P., & **Dorgo, S.** (2020). Association and predictive ability of vertical countermovement jump performance on unilateral agility in recreationally trained individuals. *Journal of Physical Education and Sport*, 20, 2076-2085. doi: <http://dx.doi.org/10.7752/jpes.2020.s3280>

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Gannam, Z., **Min, K.,** Shillingford, S., Zhang, L., Herrington, J., Abriola, L., Gareiss, P., Pantouris, G., Tzouvelekis, A., Kaminski, N., Zhang, X., Yu, J., Jamali, H., Ellman, J., Lolis, E., Anderson, K., & Bennett, A. (2020). An allosteric site on MKP5 reveals a strategy for small-molecule inhibition. *Science Signaling*. 13. eaba3043. 10.1126/scisignal.aba3043.

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