

OFFICE OF RESEARCH

Monthly Newsletter for the Faculty and Staff | ASPH

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FROM THE ADR'S DESK



It has now been approximately one year since COVID-19 alterations commenced. We are now wiser (hopefully) and well into the spring semester 2021 steaming ahead. Many staff are returning to the workplace to complement the smaller numbers of staff who have remained on site throughout. It is imperative to be especially cognizant of health and safety during

his time. I'm proud to say that I have observed no

statistically significant difference ($P > 0.85$) by faculty, staff, and students in productivity, accomplishments, nor energy to wards your day to day work.

The Arnold School continues to persevere and has served as stellar example of the University's quality efforts to remain strong and even improve throughout the pandemic. Grants and publications are doing well - already nearly \$28 mil in funding so far this year, comparable proposal submission (to last year this time), and finally a new record of 653 publications in CY2020, with growing number of these publications in top scientific journals. This attests to the continuing focus and hard work by the Arnold School. I look forward to eventually seeing each of you face-to-face in the hallways over the next several months!

CONGRATS TO...

Roosbeh Behroozmand (COMD) was awarded a \$3.6M NIH R01 award to research neural bases of vocal sensorimotor deficits that underlie impaired communication in aphasia.

Julie Smithwick, Myriam Torres, and Louisa Hernandez received \$1.1M from the BlueCross BlueShield of South Carolina Foundation to ensure access to coordinated health mom and baby collaborative which will scale successful community health worker (CHW) models that have been effective in improving birth outcomes in South Carolina.

Robin Buz Kloot received \$180K from USDA to assist in the development of strategic plans toward regenerative farming for small, new and beginning farmers.

Nancy A. Uriegas, doctoral graduate student in EXSC under the direction of Toni Torres-McGehee received a \$1,000 award from Mid-Atlantic Athletic Trainers' Association to research exertional heat illness in marching band artists.

Jamie Lead (ENHS) received \$50K I-CORPS NSF award to understand the commercial viability of a nanotechnology which has been shown to significantly reduce fungal aflatoxin biosynthesis and excretion, using very low concentrations of manufactured silver nanoparticles (NPs).

ASPH PUBLICATIONS CY 2020 Citations Impact Factor > 10.0

Nature Reviews Cancer - Impact Factor 53

Dietary Patterns and Cancer Risk

Steck, S.E. and Murphy, E.A. Nature Reviews Cancer. 20(2):125-138, 2020,

Gastroenterology - Impact Factor 20.9

EMulti-omics Evaluation of Gastrointestinal and Other Clinical Characteristics of SARS-CoV-2 and COVID-19

Du M, Cai G, Chen F, Christiani DC, Zhang Z, Wang M. Gastroenterology. 2020 Jun. PMID: 32234303.

Am J Respir Crit Care Med - Impact Factor 17.5

Tobacco Smoking Increases the Lung Gene Expression of ACE2, the Receptor of SARS-CoV-2

Cai G, Bossé Y, Xiao F, Kheradmand F, Amos CI. Am J Respir Crit Care Med. 2020 Jun 15. PMID: 32329629

HOT OFF THE PRESS (in alphabetical order)

Barber JL, Ruiz-Ramie JJ, Robbins JM, Gerszten RE, Leon AS, Rao DC, Skinner JS, Bouchard C, Sarzynski MA. *Regular exercise and patterns of response across multiple cardiometabolic traits: The HERITAGE Family Study.* Br J Sports Med (in press). PMID: 33619128. DOI: 10.1136/bjsports-2020-103323

Bernhart JA, Turner-McGrievy G, Eustis S, Wilson M, Hutto B, Wilcox S, Frongillo EA, Murphy A. *Sensor-measured physical activity is associated with decreased cardiovascular disease risk in African Americans.* Lifestyle Medicine 2020;1-7. doi.org/10.1002/lim2.16.

Blake CE, Frongillo EA, Warren AM, Constantinides SV, Rampalli K, Bhandari S. *Elaborating the science of food choice for rapidly changing food systems in low-and middle-income countries.* Global Food Security 28:100503, 2021. doi.org/10.1016/j.gfs.2021.100503.

UPCOMING GRANT OPPORTUNITIES

NIH Research Opportunity Announcement: OTA-21-015B Post-Acute Sequelae of SARS-CoV-2 Infection Initiative: SARS-CoV-2 Recovery Cohort Studies due 3/25/2021 at 5 PM

NEW Parent R01 Application due 6/5/2021 at 5 PM

RESUBMISSION Parent R01 Application due 7/5/2021 at 5 PM

NEW Parent R03/R21 Application due 6/16/2021 at 5 PM

RESUBMISSION Parent R03/R21 Application due 7/16/2021 at 5 PM

Pfizer RFP: Osteoarthritis (OA) and OA Pain: https://pfizer.com/d8-prod.s3.amazonaws.com/2021-03/GMG_2021-IM-G_OsteoarthritisVirtualLearning.pdf? tq6e2YMpju2vCzBVTLIzuL9Nk3rD6CrD

Pfizer RFP: Non-small cell lung cancer: https://cdn.pfizer.com/pfizercom/2021-03/2021%20Oncology%20G-NSCLC%20Therapy%20Management_0.pdf? VersionId=Rt1qmcWpmEkz4bTPXMTyXec4yMmbnA6T

PICORI: <https://www.pcori.org/sites/default/files/PCORI-engagement-award-building-capacity-COVID19-PFA-special-cycle-2021.pdf>

FUNDING FY 2020-2021

COMD	\$1,986,580
ENHS	\$3,627,260
EPID/BIOS	\$7,983,110
EXSC	\$5,164,353
HPEB	\$2,750,421
HSPM	\$1,226,023
CENTERS AND DEAN	\$4,737,214
TOTAL	\$27,474,961



Arnold School of Public Health

sc.edu/study/colleges_schools/public_health/internal/faculty_staff/administrative_departments/office_of_research/index.php

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Boutte AK, Turner-McGrievy GM, Wilcox S, Liu J, Eberth JM, Kaczynski AT. *Stress and depressive symptoms are not associated with overall diet quality, but are associated with aspects of diet quality in pregnant women in South Carolina.* Journal of the Academy of Nutrition and Dietetics. Accepted.

Boutte AK, Turner-McGrievy GM, Eberth JM, Wilcox S, Liu J, Kaczynski AT. *Healthy food density is not associated with diet quality among pregnant women with overweight/Obesity in South Carolina.* the Journal of Nutrition Education and Behavior. 2021 February, 53(2),120-129. <https://doi.org/10.1016/j.jneb.2020.11.014>

Collie-Akers VL, Fawcett SB, Schultz JA, Fleming KK, Swinburne Romine RE, Ritchie LD, Frongillo EA, Arteaga SS. *Association of multisetting community programs and policies with child body mass index: The Healthy Communities Study.* Preventing Chronic Disease 17:E34, 2020.

Drewnowski A, Monterrosa E, de Pee S, Frongillo EA, Vandevijvere S. *Shaping physical, economic, and policy components of the food environment to create sustainable healthy diets.* Food and Nutrition Bulletin 41(2S):S74-S86, 2020.

Fram MS, Frongillo EA. *Moving beyond giving free food: Specific targeting and tailoring in response to child food insecurity.* Journal of the Academy of Nutrition and Dietetics 121:S74-S77, 2020. doi.org/10.1016/j.jand.2020.07.024

Joshua R Sparks, Ryan R Porter, Shawn D Youngstedt, Kimberly P Bowyer, J Larry Durstine, Xuewen Wang. *Effects of moderate sleep restriction during 8-week calorie restriction on lipoprotein particles and glucose metabolism.* SLEEP Advances, Volume 1, Issue 1, 2020, zpab001, <https://doi.org/10.1093/sleepadvances/zpab001>. Published: 28 January 2021

Kulkarni S, Frongillo EA, Cunningham K, Moore S, Blake CE. *Gendered intra-household bargaining power is associated with child nutritional status in Nepal.* Journal of Nutrition doi.org/10.1093/jn/nxaa399, 2021

Lane-Cordova AD, Hutto B, Fernhall B, Wilcox S, Liu J. *Agreement between research quality blood pressure and blood pressure abstracted from electronic medical records in pregnant women.* Blood Pressure Monitoring Research. Accepted

Leila M Larson, Shruthi Cyriac, Eric W Djimeu, Mduduzi N N Mbuya, Lynnette M Neufeld, *Can Double Fortification of Salt with Iron and Iodine Reduce Anemia, Iron Deficiency Anemia, Iron Deficiency, Iodine Deficiency, and Functional Outcomes? Evidence of Efficacy, Effectiveness, and Safety,* The Journal of Nutrition, Volume 151, Issue Supplement_1, February 2021, Pages 15S–28S, <https://doi.org/10.1093/jn/nxaa192>

Linkel K. Boateng, Seyyedali Mirshahghassemi, Haibin Wu, Joseph R. V. Flora, Vicki H. Grassian, and Jamie R. Lead. *Mechanistic study of oil adsorption onto PVPcoated magnetic nanoparticles: an integrated experimental and molecular dynamics study to inform remediation.* Environ. Sci.: Nano, 2021, 8, 485

Liu J*, Wilcox S, Wingard E, Turner-McGrievy GM, Hutto B, Burgis J. *A Behavioral Lifestyle Intervention to Limit Gestational Weight Gain in Pregnant Women with Overweight and Obesity.* Obesity. 2021 <http://doi.org/10.1002/oby.23119>

Liu J*, Wilcox S, Wingard E, Burgis JT, Schneider L, Dahl A. *Strategies and challenges in recruiting overweight and obese pregnant women for a behavioral lifestyle intervention program.* Women's Health Reports. 2020. 1:1, 556–565, DOI: 10.1089/whr.2020.0089

Miller JD, Frongillo EA, Weke E, Burger R, Wekesa P, Sheira LA, Mocello AR, Bukusi E, Otieno P, Cohen CR, Weiser SD, Young SL. *Household water and food insecurity are positively associated with poor mental and physical health among adults living with HIV in western Kenya.* Journal of Nutrition nxab030, 2021. doi.org/10.1093/jn/nxab030.

Monterrosa EC, Frongillo EA, Drewnowski A, de Pee S, Vandevijvere S. *Sociocultural influences on food choices and implications for sustainable healthy diets.* Food and Nutrition Bulletin 41(2S):S59-S73, 2020.

Nagata JM, Anicete LM, Cohen CR, Frongillo EA, Burger R, Wekesa P, Weke E, Weiser SD, Bukusi EA. *Presence of older adolescents in the household is associated with depressive symptoms among women living with HIV in Kenya.* AIDS and Behavior 24(12):3574-3578 2020.

Ozturk O, Frongillo EA, Blake CE, McGrievy GM, McInnes M. *Before the lunch line: Effectiveness of behavioral economic interventions for pre-commitment on elementary school children's food choices.* Journal of Economic Behavior & Organization 176(C):597-618, 2020.



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Rothenberg SE, Korrick SA, Liu J, Nong Y, Nong H, Hong C, Trinh EP, Jiang X, Biasini FJ, Ouyang FX. *Maternal methylmercury exposure through rice ingestion and child neurodevelopment in the first three years: a prospective cohort study in rural China*. Environmental Health. Accepted.

Tan JY, Sheira L, Frongillo EA, Adimora A, Tien PC, Konkle-Parker D, Golub ET, Merenstein D, Levin S, Cohen M, Ofotokun I, Fischl M, Rubin LH, Weiser SD. *Food insecurity and neurocognitive function among women living with or at risk for HIV in the United States*. American Journal of Clinical Nutrition 112(5):1280-1286, 2020. doi.org/10.1093/ajcn/nqaa209.

Tsai M, Frongillo EA, Ritchie LD, Woodward-Lopez G, Au LE. *Factor analysis reduces complex measures of nutrition environments in U.S. elementary and middle schools into cohesive dimensions in the Healthy Communities Study*. Journal of Nutrition nxaa450, 2021. /doi.org/10.1093/jn/nxaa450.

Warren AM, Constantinides SV, Blake CE, Frongillo EA. *Advancing knowledge about stakeholder engagement in multisectoral nutrition research*. Global Food Security 29:100521 2021. doi.org/10.1016/j.gfs.2021.100521.

Whitaker KM, Hung P, Alberg AJ, Hair N, Liu J. *Variations in Health Behaviors among Pregnant Women During the COVID-19 Pandemic*. Midwifery. 2021;95:102929.

Whittle HJ, Wolfe WR, Sheira LA, Frongillo EA, Palar K, Merenstein D, Wilson TE, Adedimeji A, Cohen MH, Wentz EL, Tien PC, Weiser SD. *Associations between food insecurity and psychotropic medication use among women living with HIV in the United States*. Epidemiology and Psychiatric Sciences 29:e113, 2020.

Yelton B, Brandt HM, Adams SA, Ureda JR, Lead JR, Fedrick D, Lewis K, Kulkarni S, Friedman DB. *"Talk About Cancer and Build Healthy Communities": How Visuals Are Starting the Conversation About Breast Cancer Within African-American Communities*. Int Q Community Health Educ. 2021 Apr;41(3):267-274. doi: 10.1177/0272684X20942076. Epub 2020 Jul 13. PMID: 32660340; PMCID: PMC7854839.

Young SL, Frongillo EA, Jamaluddine Z, Melgar-Quinonez H, Perez-Escamilla R, Ringler C, Rosinger A. *Perspective: The importance of water security for ensuring food security, good nutrition, and wellbeing*. Advances in Nutrition nmab003, 2021. doi.org/10.1093/advances/nmab003.

