

College of Public Health and Health Professions  
Office of Research Annual Report FY 2019

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# Introduction



The College of Public Health and Health Professions has concluded a successful year of research, with \$43.4M for Fiscal Year 2019. As noted in the pages ahead, our faculty are contributing to their fields with innovative models of research that promote collaboration between faculty in public health and health professions and collaboration with colleagues in many disciplines locally, nationally and internationally.

The College's portfolio in certain categories has increased from our FY 2018 report:

- Awards received increased from 162 to 217 (34% increase)
- The percent of Federal Funding in our portfolio has increased 13%
- Proposals submitted increased 16%

The Centers and Institutes housed in our College are innovative and support multiple external partnerships and research of students and faculty.

The publications of our faculty indicate state of the art contributions to science and collaborations with other faculty and students, which are of major importance locally, nationally and internationally.

We are proud of these accomplishments and look forward to another productive year of research excellence!

Michael G. Perri, PhD, ABPP  
Dean  
Robert G. Frank Endowed Professor

Linda B. Cottler, PhD, MPH, FACE  
Associate Dean for Research

# **PHHP Fiscal Year 2019 Funding and Proposals**

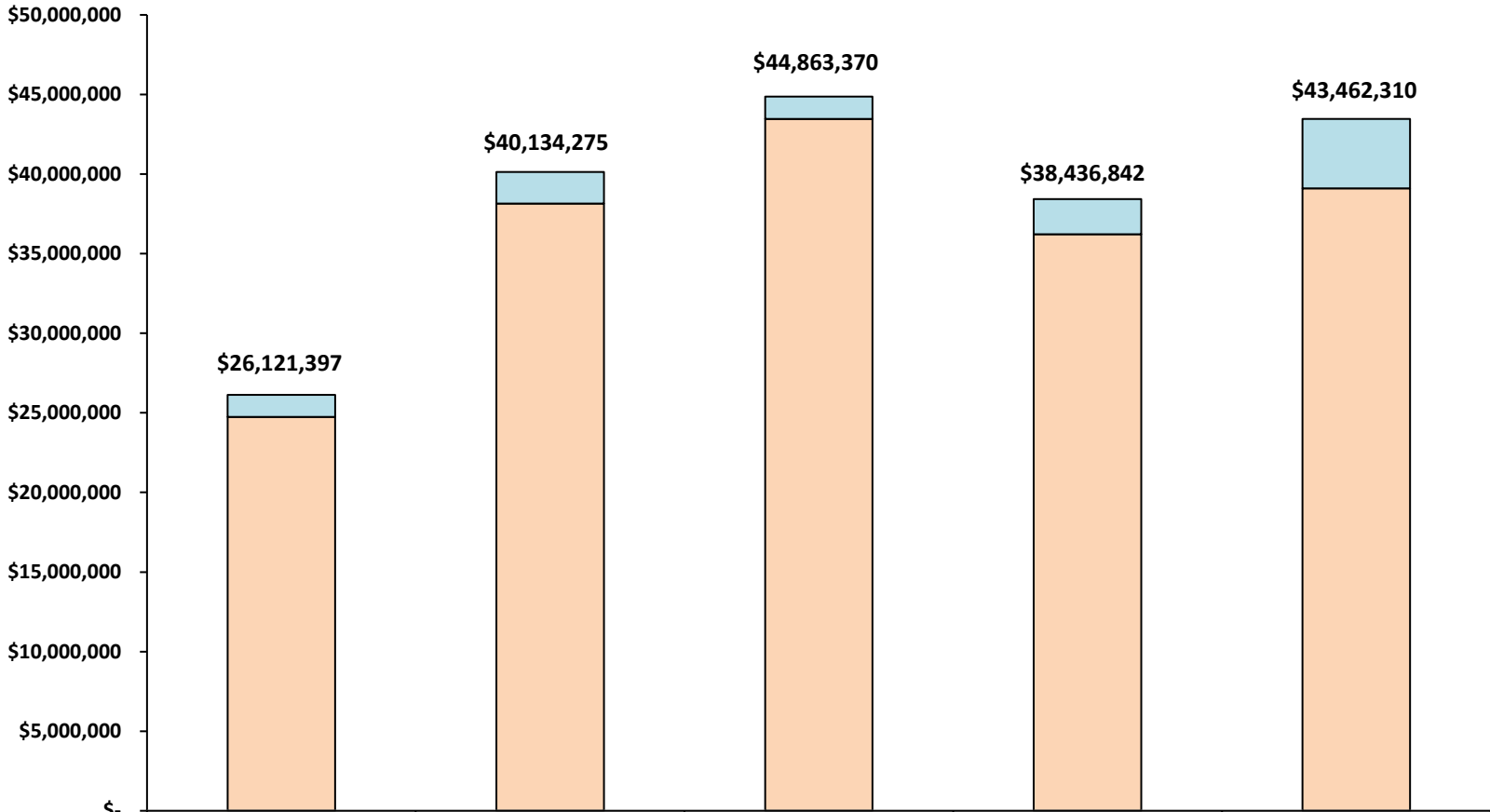
## PHHP Summary of Sponsored Research Activity FY 2019

Proposals Submitted	280
Awards Received	230
Grant & Contract Dollars Awarded	\$43,462,310*
Faculty Receiving Awards**	60
Sponsors	86

\* Includes full amounts for faculty in Epidemiology & Biostatistics who are in both College of Medicine & PHHP

\*\* As submitting and subcontract PI

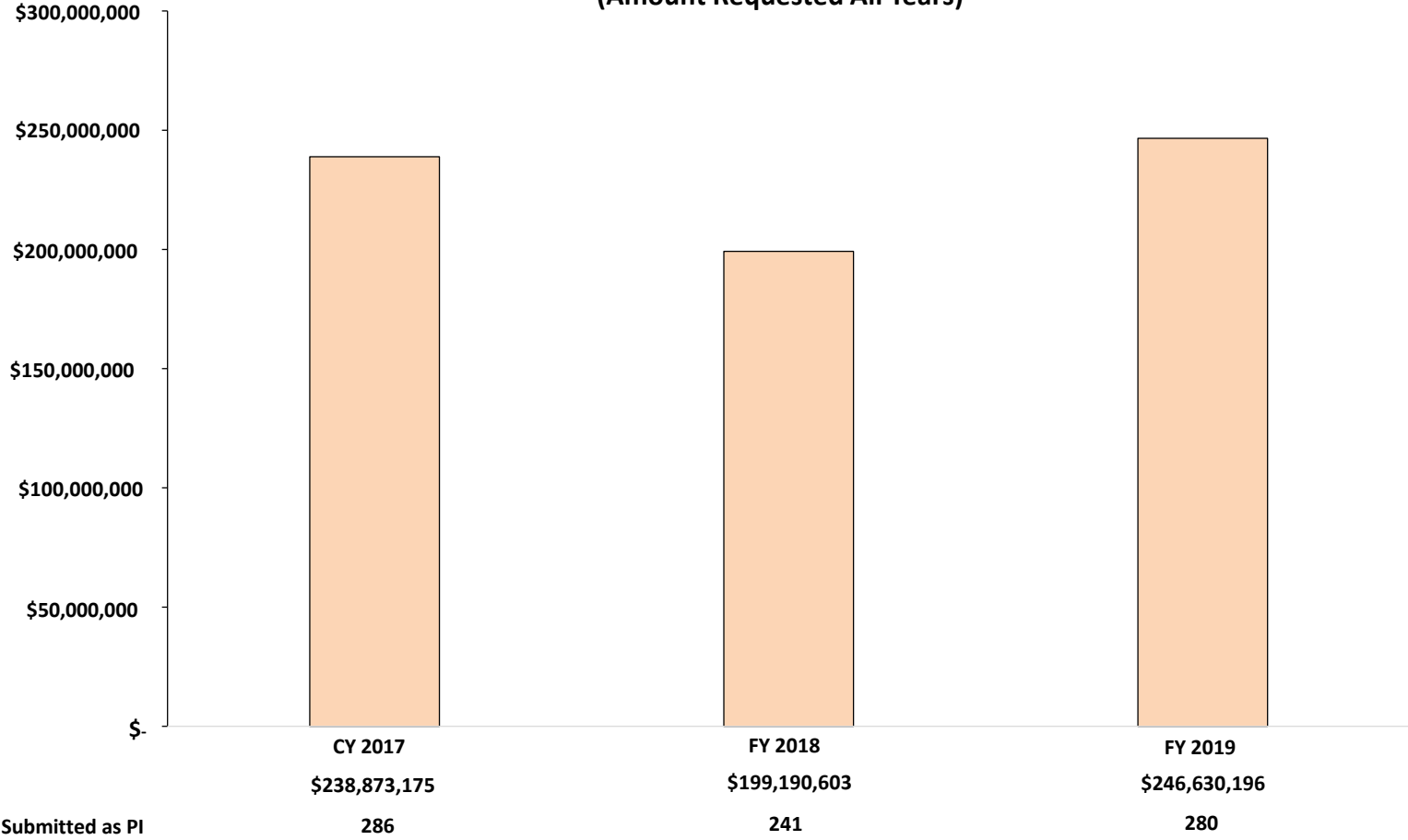
### PHHP: Total Funding Received from Fiscal Years 2015 to 2019\*



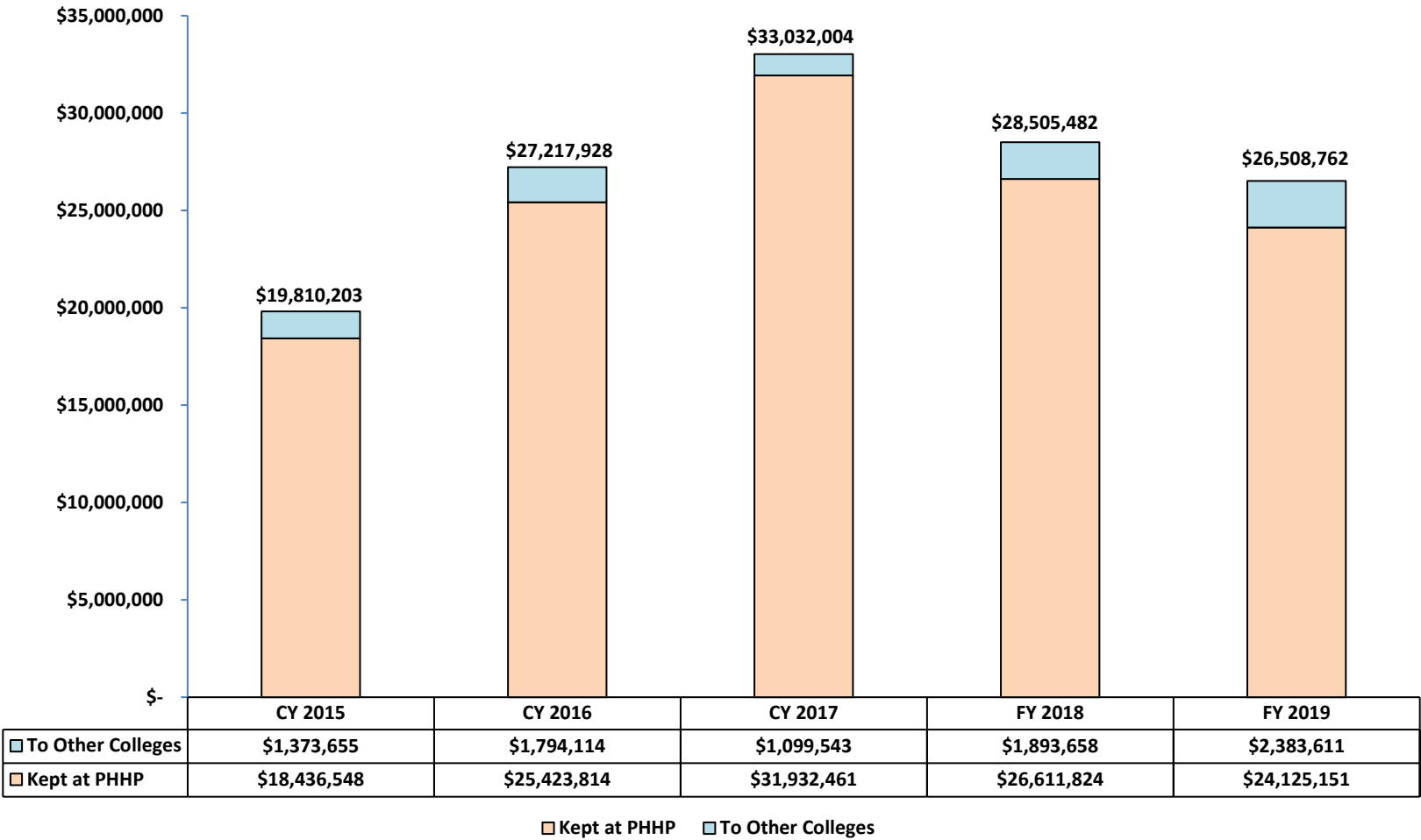
	2015	2016	2017	2018	2019
To Other Colleges	\$1,377,540	\$1,986,110	\$1,406,203	\$2,214,972	\$4,353,141
Kept at PHHP	\$24,743,857	\$38,148,165	\$43,457,167	\$36,221,870	\$39,109,169

\*Includes full amounts for faculty in Epidemiology & Biostatistics who are in both College of Medicine & PHHP

**PHHP Proposals Submitted as Main PI from 2017-2019  
(Amount Requested All Years)**



**PHHP NIH Funding Received From Fiscal Years 2015 to 2019\***



\*Includes full amounts for faculty in Epidemiology & Biostatistics who are in both College of Medicine & PHHP

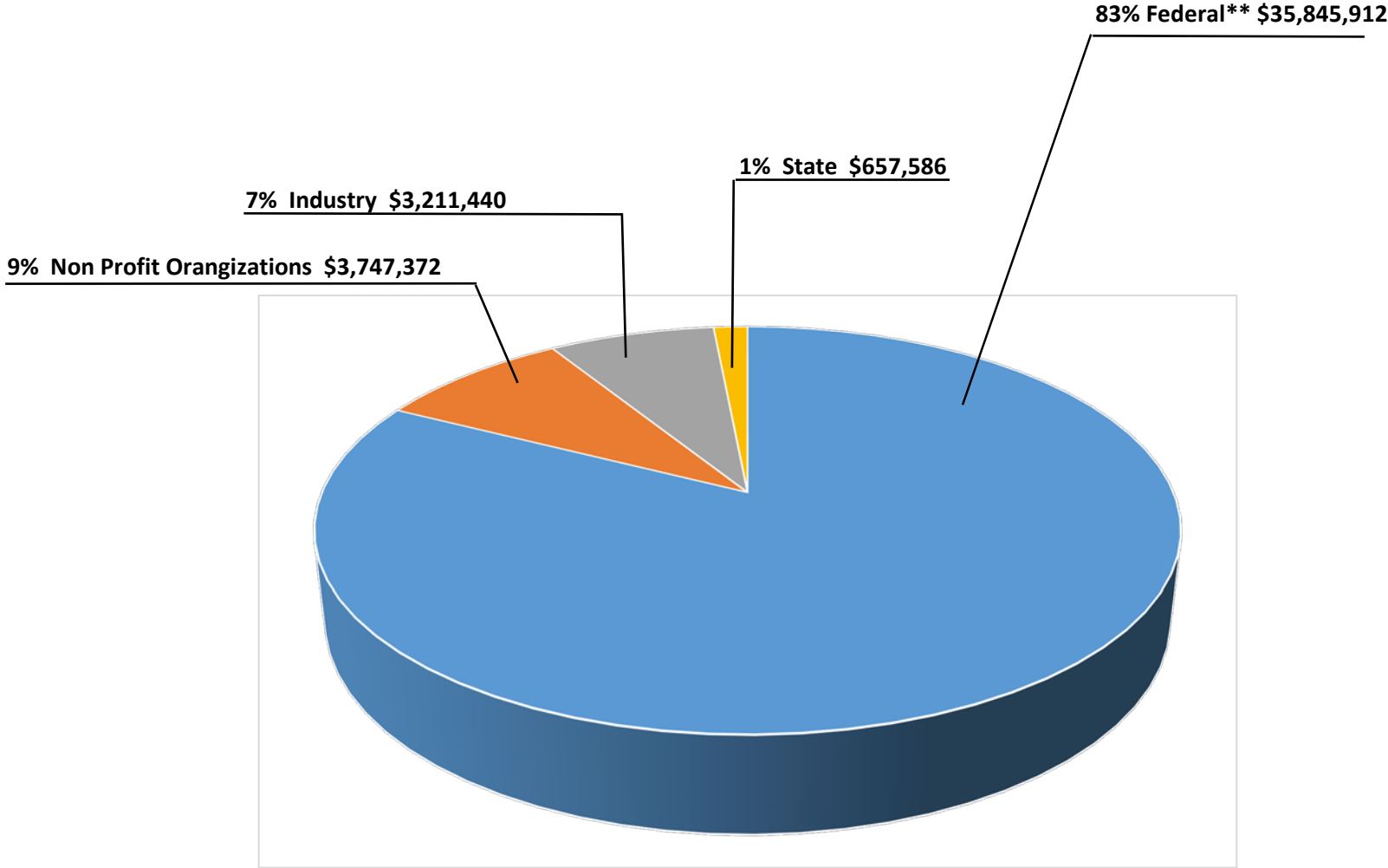


**PHHP Number of Grants as Submitting and Subcontract PI by Mechanism: FY 2019**

	<b>FY 2019</b>
<b>CORP/CO</b>	12
<b>CORP-FT</b>	6
<b>F31</b>	3
<b>FED-AHRQ</b>	3
<b>FED-ARMY</b>	2
<b>FED-CDC</b>	5
<b>FED-CSGP</b>	1
<b>FED-DHHS</b>	1
<b>FED-DOAg</b>	2
<b>FED-DOE</b>	1
<b>FED-DOJ</b>	1
<b>FED-DOT</b>	5
<b>FED-EPA</b>	1
<b>FED-FDA</b>	1
<b>FED-FT</b>	10
<b>FED-HRSA</b>	3
<b>FED-NSF</b>	1
<b>FED-VA</b>	10
<b>K01</b>	3
<b>K07</b>	1
<b>K12</b>	1
<b>K23</b>	1
<b>K99</b>	1
<b>NIH-FT</b>	39
<b>NPO</b>	35
<b>NSF-FT</b>	1
<b>P01</b>	3
<b>P20</b>	1
<b>P2C</b>	1
<b>P30</b>	1
<b>R01</b>	41
<b>R03</b>	1
<b>R18</b>	1
<b>R21</b>	11
<b>R37</b>	1
<b>FL-DOH</b>	6
<b>FL-FWCC</b>	1
<b>T32</b>	4
<b>U01</b>	3
<b>U10</b>	1
<b>U24</b>	1
<b>U54</b>	1
<b>UH2</b>	2

CORP/CO=Corporation/Company  
 NPO=Non Profit Org  
 FT=Federal Flow-Thru

# FY 2019 PPHP Funding by Sponsor\*

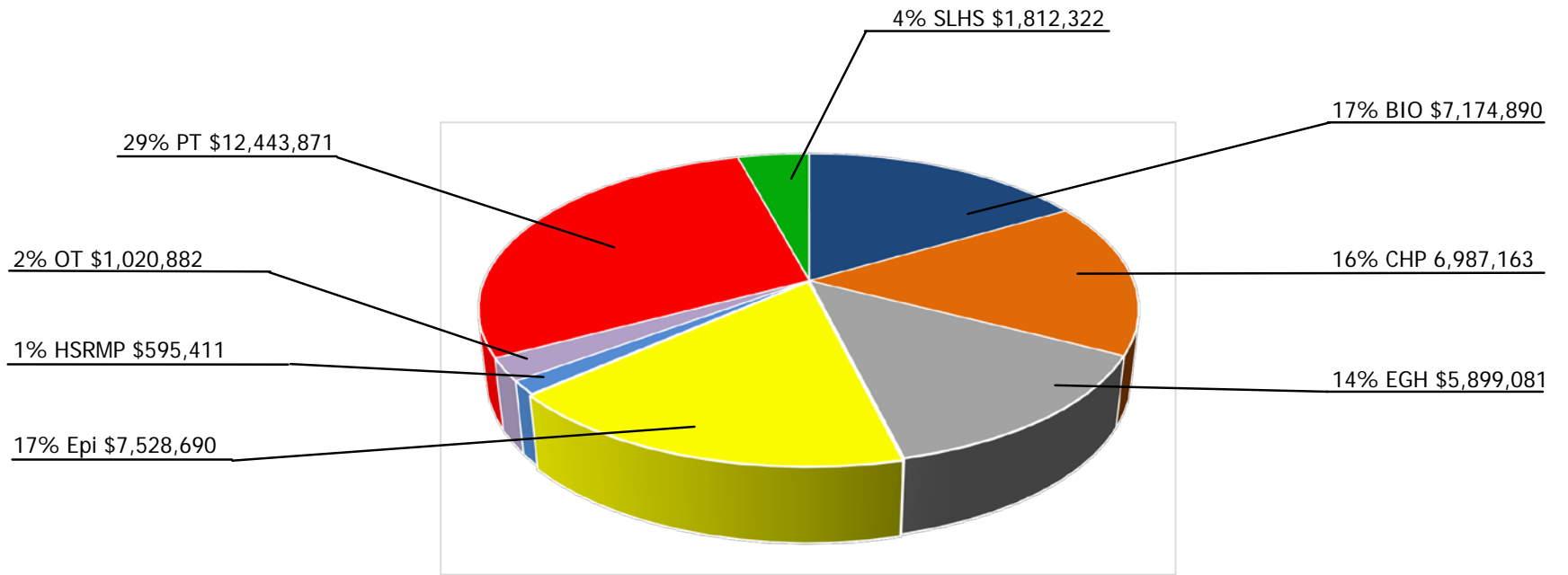


**TOTAL: \$43,462,310**

\*Includes full amounts for faculty in Epidemiology & Biostatistics who are in both College of Medicine & PPHP

\*\*Also includes Federal entities such as DOH, DOJ, DOT, VA, etc.

# FY 2019 PPHP Funding by Department\*



**TOTAL: \$43,462,310**

\*Includes full amounts for faculty in Epidemiology & Biostatistics who are in both College of Medicine & PPHP

**PHHP Fiscal Year 2019  
Training Grants**

## **Department of Clinical and Health Psychology**

**PI:** BOWERS, DAWN

**MPI:** VAILLANCOURT, DAVID

**TITLE:** INTERDISCIPLINARY TRAINING IN MOVEMENT DISORDERS AND NEURORESTORATION

**AGENCY:** NIH – NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS & STROKE

**MECHANISM:** T32

**FUNDING PERIOD:** 5-1-15 to 4-30-20

**# OF PRE-DOCS:** 4

**# OF POST-DOCS:** 0

## **Department of Epidemiology**

**PI:** COTTLER, LINDA

**TITLE:** UF SUBSTANCE ABUSE TRAINING CENTER IN PUBLIC HEALTH

**AGENCY:** NIH – NATIONAL INSTITUTE ON DRUG ABUSE

**MECHANISM:** T32

**FUNDING PERIOD:** 7-1-14 to 6-30-24

**# OF PRE-DOCS:** 5

**# OF POST-DOCS:** 3

**PI:** COOK, ROBERT

**MPI:** LEEMAN, ROBERT

LUCERO, ROBERT

**TITLE:** TRANSLATIONAL SCIENCE TRAINING TO REDUCE THE IMPACT OF ALCOHOL ON HIV INFECTION

**AGENCY:** NIH – NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM

**MECHANISM:** T32

**FUNDING PERIOD:** 8-1-18 to 7-31-23

**# OF PRE-DOCS:** 4

**# OF POST-DOCS:** 2

**PI:** JOHNSON, JULIE

**MPI:** PEARSON, THOMAS

**TITLE:** TRAINING PROGRAM FOR APPLIED RESEARCH AND DEVELOPMENT IN GENOMIC MEDICINE

**AGENCY:** NIH – NATIONAL HUMAN GENOME RESEARCH INSTITUTE

**MECHANISM:** T32

**FUNDING PERIOD:** 1-1-18 to 12-31-22

**# OF PRE-DOCS:** 4

**# OF POST-DOCS:** 4

## **Department of Physical Therapy**

**PI:** FULLER, DAVID

**MPI:** VANDENBORNE, KRISTA

**TITLE:** INTERDISCIPLINARY TRAINING IN REHABILITATION AND NEUROMUSCULAR PLASTICITY

**AGENCY:** NIH – NATIONAL INSTITUTE OF CHILD HEALTH & HUMAN DEVELOPMENT

**MECHANISM:** T32

**FUNDING PERIOD:** 5-1-14 to 4-30-24

**# OF PRE-DOCS:** 6

**# OF POST-DOCS:** 0

**PI:** MITCHELL, GORDON

**TITLE:** BREATHING RESEARCH AND THERAPEUTICS (BREATHE)

**AGENCY:** NIH – NATIONAL HEART, LUNG, AND BLOOD INSTITUTE

**MECHANISM:** T32

**FUNDING PERIOD:** 04/15/2017 – 03/31/2022

**# OF PRE-DOCS:** 3

**# OF POST-DOCS:** 3

**PHHP Fiscal Year 2019**  
**Centers and Institutes**

**Center for Cognitive Aging and Memory (CAM)****EST: 2012**

Director: Ronald Cohen, PhD, ABPP, ABCN

Department: Clinical and Health Psychology

Approximately one in seven adults over the age of 65 experience moderate to severe cognitive impairments, including problems with memory. These impairments adversely impact the ability of the elderly to remain functionally independent, and also interfere with health status and quality of life. People are increasingly reaching very advanced age, and there is evidence that the prevalence of cognitive and memory dysfunction will approach fifty percent among centenarians, providing a strong rationale for an intensification of clinical and translational neuroscience directed at age-associated cognitive decline. Research is needed to identify biomarkers that can identify people at risk for functional decline and early signals that changes in the brain are occurring prior to onset of overt symptoms. There is also a major need for research aimed at developing new interventions to prevent and remediate age-associated cognitive problems before disabling functional decline occurs. The Center for Cognitive Aging and Memory (CAM) addresses this critical need.

The mission of the Center is to conduct cutting-edge interdisciplinary clinical neuroscience and translational research on age-associated cognitive, behavioral and emotional functioning, factors that contribute to impairments and functional decline, and future avenues for intervention. A primary objective is to translate basic science discoveries into clinical applications in order to slow, avert or restore age-related cognitive decline and memory loss.

Specific areas of research within the Center include: better characterization and prediction of the trajectory of age-associated cognitive changes, achieving greater understanding of alterations of brain's neural networks with aging. Development of neuroimaging methods for detecting and assessing early brain changes. Testing neurodiagnostic and predictive value of specific laboratory biomarkers, examining epigenetic influences and signals that underlie brain changes. Epidemiologic and mechanistic studies of modifiable biological and behavioral risk factors of age-related cognitive decline and memory loss, which could be targeted for interventions in clinical trials. Predictive modeling of neurocognitive, neuroimaging and laboratory measures. Translation of basic science findings on factors influencing cognitive aging into clinical applications. Preliminary implementation studies of the effectiveness of particular interventions. Clinical trials of interventions to slow, avert, or restore age-related cognitive decline and memory loss. Studies examining the impact of interventions on functional capacity, health status, and quality of life. Translating findings on neural apoptosis, neurotoxicity, and neural plasticity and restoration resulting from basic and translational research findings of investigators in the McKnight Brain Institute and from other centers throughout the world. Translating findings from studies of neuronal and neural network development and repair into new paradigms for protecting and restoring at-risk higher cortical function in the elderly. Effectiveness and implementation studies of interventions found to be efficacious in clinical trials.

**Center for Pain Research and Behavioral Health****EST: 1992**

Director: Michael E. Robinson, PhD

Department: Clinical and Health Psychology

The Center for Pain Research and Behavioral Health is dedicated to the investigation and understanding of the experience of pain in humans and to educate future scientists and health professionals consistent with the most current knowledge in the area of pain. The Center involves a collaboration of scientists from several disciplines (Clinical Psychology, Dentistry, Medicine, Neuroscience, Physical Therapy, Nursing, Computer Science and Engineering) who have pooled their resources and expertise to more fully understand the etiology, diagnosis, and rehabilitation of pain conditions. Projects range from basic science investigations of pain processing in the human brain to prediction of treatment outcome in clinical trials for chronic pain. Trainees working in the lab also conduct research in several clinical settings including the Spine Center, Psychiatry Pain Center, and Rheumatology.

### **Center for Pediatric Psychology and Family Studies**

**EST: 2005**

Director: David Janicke, PhD, ABPP

Department: Clinical and Health Psychology

The focus of this center is on behavioral health and adjustment in children, youth, and families. Clinical child and pediatric psychologists, psychiatrists, pediatricians, and their students work collaboratively on a variety of research activities related to quality of life, adherence to medical treatments, coping with issues associated with chronic illness or injury, and the behavioral and social adjustment of children with both internalizing and externalizing behavior disorders and their families. The Center currently supports projects evaluating treatment for children with ADHD, autism, obesity, traumatic brain injury, craniofacial anomalies, obsessive compulsive disorders, and other behavioral health related problems.

These interdisciplinary projects involve collaborative efforts between the UF Department of Clinical and Health Psychology, the UF Department of Psychiatry, and the UF Department of Pediatrics. The Center provides a source of support for development of new research initiatives or for expansion of current projects through such mechanisms as yearly mini-grants to graduate students, provision of stipend and tuition for graduate research assistants, and funding for faculty laboratory equipment or supplies. In addition, the Center is active in supporting and organizing national conferences related to research in clinical child and pediatric psychology. For example, in 2011 the Center co-sponsored the International Conference on Parent-Child Interaction Therapy.

### **Center for Respiratory Research and Rehabilitation**

**EST: 2016**

Director: Gordon Mitchell, PhD

Department: Physical Therapy

The University of Florida Center for Respiratory Research is a multi-disciplinary collaboration established in 2015 to advance the understanding and treatment of neuromuscular disorders that compromise respiratory and related non-respiratory movements. The Center mission is to create a world-renowned program devoted to understanding physiological challenges to respiratory motor control in health and disease, and to translate our knowledge into strategies of respiratory rehabilitation in devastating clinical disorders that compromise breathing, including spinal cord injury, neuromuscular diseases (muscular dystrophy, Pompe disease, ALS and others), Parkinson's Disease, stroke, and other clinical disorders that compromise breathing. The UF respiratory community is particularly strong in: respiratory neurobiology, respiratory muscle function, and translational research in human clinical disorders. Currently, the Center focuses on: spinal cord injury (SCI), motor neuron disease (ALS), muscular dystrophy (MD), Pompe Disease, Parkinson's disease, and stroke. The Center offers collaborating scientists opportunities for training in lab procedures, grant-writing, oral dissemination, participation in local and national sponsored seminars, and the use of core facilities and equipment. Core equipment includes rodent ventilatory measurements and respiratory muscle EMG telemetry, human intermittent hypoxia exposure systems, and equipment to measure a range of physiological functions.

### **Center for Statistics and Quantitative Infectious Diseases**

**EST: 2015**

Co-Director: Ira M. Longini, Jr, PhD

Department: Biostatistics

The Center for Statistics and Quantitative Infectious Diseases is a joint program of Fred Hutchinson Cancer Research Center in Seattle, Washington, and the University of Florida. Our main interest is in quantitative methodologic developments related to scientific and public health aspects of infectious diseases, including epidemiology, evaluating interventions, immunology, and vaccinology. Our research focuses on prevention and intervention in infectious diseases of global health importance, as well as emerging infectious diseases, such as pandemic influenza. The quantitative methods include statistical, epidemiologic, mathematical modeling, computational biology, and bioinformatic methods. Our group is in the MIDAS network and is partially supported by the National Institute of General Medical Sciences at NIH.



### **Center for the Study of Emotion and Attention**

**EST: 1986**

Director: Peter J. Lang, PhD

Department: Clinical and Health Psychology

Faculty and students at the multi-disciplinary Center for Research in Emotion and Attention (CSEA) are engaged in basic and applied research in human emotion, as emotion modulates attention, perception, memory, and other cognitive processes. Experiments conducted at the Center have addressed emotion's autonomic and somatic reflex physiology, its behavioral expression, and evaluative-report indices. Using electroencephalography and functional magnetic resonance imaging, CSEA investigators are exploring the brain structures that mediate emotional reactivity, assessing neural circuit activation and connectivity in the context of external affective cues and memory imagery. An important applied focus of CSEA research is the study of anxiety and mood disorders, undertaken with patients from the Fear and Anxiety Disorders Clinic, a health center specialty clinic that is part of the Center laboratory complex. The Center provides laboratory training in psychophysiology and neural imaging research methods at the Post-Doctoral, Graduate Student, and Post-Baccalaureate levels. Center affiliated Investigators include faculty from the Clinical and Health Psychology (PHHP), Psychology (CLAS), and the Departments of Radiology and Biomedical Engineering at UF. In addition to its resident faculty, the Center benefits from frequent visits of its affiliated investigators from the broader, US and international research communities.

### **Hearing Research Center**

**EST: 2009**

Director: Susan Nittrouer, PhD

Department: Speech, Language and Hearing Sciences

The Hearing Research Center brings together researchers, clinicians, and public health policy professionals interested in issues related to hearing and communication. The Center's missions are two-fold, including the discovery of new fundamental knowledge about hearing, hearing disorders, and the physical and biochemical processes that drive those disorders; and translation/application of those findings with corresponding public health outreach to effectively educate health professionals and public populations. To achieve this mission, the Center draws on faculty from the College of Public Health and Health Professions, the College of Medicine, and the College of Liberal Arts. Faculty affiliated with the Hearing Research Center are interested in understanding and reducing the influence of age-related hearing loss, noise-induced hearing loss, hearing loss induced by ototoxic drugs, and hearing loss that develops as a consequence of genetic syndromes; strategies of interest include novel therapeutics that reduce the onset or progression of hearing loss and communication difficulties, improved hearing aid and cochlear implant processing strategies to ameliorate existing deficits, as well as gene therapy approaches to restore auditory function to the profoundly deaf. Center-initiated collaborations complement efforts within the College of Public Health and Health Professions targeted towards joining Public Health professionals with their counterparts in the Health Professions. Pooled resources and expertise provide an opportunity for future scientists and health professionals to receive multidisciplinary research training and clinical training with the most current knowledge in the area of hearing loss and hearing protection. The Center emphasizes the importance of translational research and student training in the special challenges associated with translational research, as well as information dissemination to health professionals and the general public. The Center funds lectures by visiting scholars, student research activities, and preliminary data collection in areas of interest. \*Center is currently undergoing major restructuring\*

### **Institute for Mobility, Activity, and Participation (I-MAP)**

**EST: 2009**

Director: Sherrilene Classen, PhD, MPH, OTR/L, FAOTA, FGSA

Department: Occupational Therapy

Located within the College of Public Health and Health Professions at the University of Florida, the Institute for Mobility, Activity and Participation (I-MAP) was formed earlier in 2009 to support a substantial increase in driving-related research which expanded beyond projects in older driver safety. Research on (older) driver safety was previously supported by the National Older Driver Research & Training Center (NODRTC) at the University of Florida. The goal of I-MAP is to conduct driver safety research related to all age groups, study the use of

alternative transportation options such as use of buses and personal mobility such as getting around at home. Within I-MAP researchers will execute these activities as a means to preserve, promote and improve independent, safe and appropriate mobility for individuals and within populations. Currently, researchers at I-MAP are engaged in projects related to the driving issues of people with Parkinson's disease, traumatic brain injury/post-traumatic stress disorder/depression, seizure disorders such as epilepsy, and patients who are taking different medications. We have also studied personality as a predictor (e.g. extroverts, vs. introverts) of driving performance. Researchers at I-MAP are interested in cross-disciplinary collaboration and affiliation with investigators at the University of Florida and beyond its campus borders. In addition to collaborations in the United States, I-MAP has formed partnerships with researchers in Canada, the Netherlands, Great Britain, Australia, Israel, and South Africa; and its national and international expansion is expected to grow. By funding projects essential to its mission, by tapping into the multi-disciplinary research pool at UF and beyond, by offering pre-doctoral and post-doctoral fellowships, and by using I-MAP's existing infrastructure, support and resources, I-MAP is a University of Florida center of excellence for research in mobility and transportation through the lifespan.

### **SHARC Center for Translational HIV Research**

**EST: 2018**

Director: Robert Cook, MD, MPH

Department: Epidemiology

The Southern HIV and Alcohol Research Consortium (SHARC) Center enhances University of Florida's overall mission via a unique research and training environment that emphasizes team science. SHARC, based at the University of Florida, is one of five national Consortia for HIV/AIDS and Alcohol Research Translation (CHAART). Primarily funded by NIH/NIAAA U24 AA022002, the mission of the SHARC Center for Translational HIV Research is to improve health outcomes and reduce HIV transmission among the diverse range of populations affected by alcohol and HIV infection in Florida. To fulfill this mission, SHARC will foster interdisciplinary translational research, training and community engagement.

The Center brings together faculty and students at UF and other universities and public health agencies to conduct and collaborate on high quality research, with the mission to translate research findings into clinical and public health interventions. This is evidenced by SHARC's history of obtaining peer-reviewed grant funding, publishing work in high-impact journals, and receiving positive feedback from a range of stakeholders including affected populations. SHARC maintains a registry of 1000 persons with HIV from multiple settings across Florida. The Cohort Registry provides contact information for persons who may be eligible for future HIV-related studies, and is thus a resource for all interested in improving the health outcomes of those infected with HIV. The SHARC Center has policies and procedures in place to provide access to this data to internal and external partners. Specifically, the SHARC Center provides access to data and data security, concept approval and tracking, data sharing agreements, and access to cross-institutional collaborations. SHARC also provides data analytic support for new grant proposals, scientific papers and presentations. This includes assistance with merging of databases, data analyses, assistance with online survey development and RedCap, and secure transfer of data across multiple institutions. In addition, we provide regulatory and administrative support related to the multiple IRBs involved in our clinical research studies.

SHARC also strives to increase research knowledge, skills, experience, and opportunities for a range of trainees, including undergraduate, professional, graduate, and post-graduate. SHARC received a NIH T32 grant to provide trainees with interdisciplinary training in alcohol and HIV. SHARC also has an ongoing Research Seminar Series and several working groups that bring trainees and faculty together into multidisciplinary teams.

**PHHP Fiscal Year 2019**  
**Publications**

**FY19 Publications: Department of Biostatistics (Page 1) [n=88]**

Alexander N, Marrano P, Thorner P, Naranjo A, Van Ryn C, Martinez D, Batra V, Zhang L, Irwin MS, Baruchel S. (2019). Prevalence and clinical correlations of somatostatin receptor-2 (SSTR2) expression in neuroblastoma. *Journal of Pediatric Hematology/Oncology*. 41(3). 222-7.

Alrwisan A, Antonelli PJ, Brumback BA, Wei Y-J, Winterstein AG. (2018). Azithromycin and sensorineural hearing loss in adults: A retrospective cohort study. *Otology & Neurotology*. 39(8). 957-963.

Bacher R, Leng N, Chu LF, Ni Z, Thomson JA, Kendzierski C, Stewart R. (2018). Trendy: segmented regression analysis of expression dynamics in high-throughput ordered profiling experiments. *BMC Bioinformatics*. 19(1). 380.

Bacher R. (2019). Normalization for single-cell RNA-Seq data analysis. *Computational Methods for Single-Cell Data Analysis*. Humana Press, New York, NY. 11-23.

Bellan SE, Eggo RM, Gsell PS, Kucharski AJ, Dean NE, Donohue R, Zook M, Edmunds WJ, Odhiambo F, Longini IM, Brisson M, Mahon BE, Henao-Restrepo AM. (2019). An online decision tree for vaccine efficacy trial design during infectious disease epidemics: The InterVax-Tool. *Vaccine*. 37(31). 4376-4381.

Borsa PA, Parr JJ, Wallace MR, Wu SS, Dai Y, Fillingim RF, George SZ. (2018). Genetic and psychological factors interact to predict physical impairment phenotypes following exercise-induced shoulder injury. *Journal of Pain Research*. 11. 2497-2508.

Buford TW, Manini TM, Kairalla JA, McDermott MM, Vaz Fragoso CA, Chen H, Fielding RA, King AC, Newman AB, Tranah GJ. (2018). Mitochondrial DNA sequence variants associated with blood pressure among two cohorts of older adults. *Journal of the American Heart Association*. 7(18). 1-11.

Chen Y, Datta S. (2019). Adjustments of multi-sample u-statistics to right censored data and confounding covariates. *Computational Statistics and Data Analysis*. 135. 1-14.

Cheng X-J, Tan L-H, Gao Y-Y, Yang Y, Schwebel DC and Hu G-Q. (2019). A new method to attribute differences in total deaths between groups to population size, age structure and age-specific mortality rate. *PLoS One*. 14(5). e0216613.

Choi Y, Staley B, Henriksen C, Xu D, Lipori G, Brumback B, Winterstein A (2018). A dynamic risk model for inpatient falls. *American Journal of Health-System Pharmacy*. 75(17). 1293-1303.

Cole PD, McCarten KM, Pei Q, Spira M, Metzger ML, Drachtman RA... Kelly KM. (2018). Brentuximab vedotin with gemcitabine for pediatric and young adult patients with relapsed or refractory Hodgkin's lymphoma (AHOD1221): a Children's Oncology Group, multicenter single-arm, phase 1-2 trial. *The Lancet Oncology*. 19(9). 1229-1238.

Dahodwala N, Shah K, He Y, Wu SS, Schmidt P, Cubillos F, Willis AW. (2018). Sex disparities in access to caregiving in Parkinson disease. *Neurology*. 90(1). 48-54.

Dashner-Titus EJ, Hoover J, Li L, Lee JH, Du R, Liu KJ... Hudson LG. (2018). Metal exposure and oxidative stress markers in pregnant Navajo Birth Cohort Study participants. *Free Radical Biology and Medicine*. 124. 484-492.

Daw NC, Chi YY, Kim Y, Mullen EA, Kalapurakal JA, Tian J... Warwick AB. (2019). Treatment of stage I anaplastic Wilms' tumour: a report from the Children's Oncology Group AREN0321 study. *European Journal of Cancer*. 118. 58-66.

Dean NE, Gsell PS, Brookmeyer R, De Gruttola V, Donnelly CA, Halloran ME, Jasseh M, Nason M, Riveros X, Watson CH, Henao-Restrepo AM Longini IM. (2019). Design of vaccine efficacy trials during public health emergencies. *Science Translational Medicine*. 11(499). 1-17.

Ding AA, Wu SS, Dean NE, Zahigian RS. (2019). wo-stage adaptive enrichment design for testing an active factor. *Journal of Biopharmaceutical Statistics*. 1-13.

Drusbosky LM, Singh NK, Hawkins KE, Salan C, Turcotte M, Wise EA, Meacham A, Vijay V, Anderson GG, Kim CC, Radhakrishnan S, Ullal Y, Talawdekar A, Sikora H, Nair P, Khanna-Gupta A, Abbasi T, Vali S, Guha S, Farhadfar N, Murthy HS, Horn BN, Leather HL, Castillo P, Tucker C, Cline C, Pettiford L, Lamba J K, Moreb JS, Brown RA, Norkin M, Hiemenz JW, Hsu JW, Slayton WB, Wingard JR, Cogle CR. (2019). A genomics-informed computational biology platform prospectively predicts treatment responses in AML and MDS patients. *Blood Advances*. 3(12). 1837-1847.

**FY19 Publications: Department of Biostatistics (Page 2)**

Dutta S, Datta S. (2018). Rank based inference for covariate and group effects in clustered data in presence of informative intra-cluster group size. *Statistics in Medicine*. 37. 4807-4822.

El-Jawahri A, Nelson-Lowe M, VanDusen H, Traeger L, Abel GA, Greer J, Fathi A, Steensma DP, LeBlanc TW, Li Z, DeAngelo D, Wadleigh M, Hobbs G, Foster J, Brunner A, Amrein P, Stone RM, Temel JS. (2019). Patient-Clinician discordance in perceptions of treatment risks and benefits in older patients with AML. *the Oncologist*. 24(2). 247-254.

Emeny RT, Korrick SA, Li Z, Nadeau K, Madan J, Jackson B, Baker E, Karagas MR. Prenatal exposure to mercury in relation to infant infections and respiratory symptoms in the New Hampshire Birth Cohort Study. (2019). *Environmental Research*. 171. 523-529.

Feng L, Qiu P. (2018). Difference detection between two images for image monitoring. *Technometri*. 60. 345-359.

Gardner AK, Ghita GL, Wang Z, Ozrazgat-Baslanti T, Raymond SL, Mankowski RT, Brumback BA, Efron PA, Bihorac A, Moore FA, Anton SD, Brakenridge SC (2019). The development of chronic critical illness determines physical function, quality of life, and long-term survival among early survivors of sepsis in surgical ICUs. *Critical Care Medicine*. 47(4). 566-673.

Gregg M, Datta S, Lorenz D. (2018). A log-rank test for clustered data with informative within-cluster group size. *Statistics in Medicine*. 37. 4071-4082.

Grimes T, Potter SS, Datta S. (2019). Integrating gene regulatory pathways into differential network analysis of gene expression data. *Scientific Reports - Nature*. 9. 5479.

Han S, Huo Z, Nguyen K, Zhu F, Underwood PW, Basso KBG...Hughes SJ. (2019). The proteome of pancreatic cancer-derived exosomes reveals signatures rich in key signaling pathways. *Proteomics*. 19(13). e1800394

Harle CA, Golembiewski EH, Rahmanian KP, Brumback B, Krieger JL, Goodman KW, Mainous AG, Moseley RE (2019). Does an interactive trust-enhanced electronic consent improve patient experiences when asked to share their health records for research? A randomized trial. *Journal of the American Medical Informatics Association*. 26(7). 620-629.

Hatch EW, Geeze MB, Martin C, Salama ME, Hartmann K, Eisenwort G... Chen L. (2018). Variability of PD-L1 expression in mastocytosis. *Blood Advances*. 2(3). 189-199.

Hinderling PH, Yu Y. (2019). Quantitative assessment of the effect of chronic kidney disease on the nonrenal clearance of 10 drugs after intravenous administration. *Clinical Pharmacology in Drug Development*. 8(2). 138-151.

Hoehn AG, Madan JC, Li Z, Coker M, Lundgren SN, Morrison HG, Palys T, Jackson BP, Sogin ML, Cottingham KL, & Karagas MR. (2018). Sex-specific gut microbiome impacts of infant arsenic exposure in a US population. *Scientific Reports*. 8. 1-11.

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