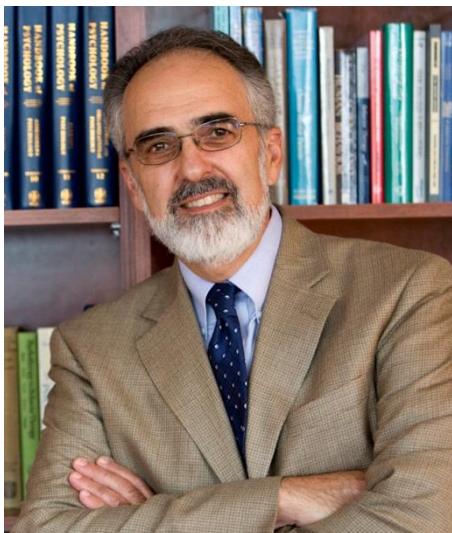


College of Public Health and Health Professions
Office of Research Annual Report CY 2016

Table of Contents

	Page Number
Introduction.....	01
Funding and Proposals.....	02 - 09
Training Grants.....	10 - 11
Centers and Institutes.....	12 - 15
Publications.....	16 - 45

Introduction



The College of Public Health and Health Professions has concluded a very successful year of research, increasing awards \$30.9M for calendar year 2015 to \$42.4M for calendar year 2016, a 37% increase over last year and a 70% increase from CY2014 (24.9M). 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 CY 2015 to 2016:

- The number of R01s increased 18%; R21s and R03s increased 33%
- NIH grants and subcontracts increased in amount of dollars by 24%

The College is 2nd to the College of Medicine in Training Grants awarded (n=5) to the Health Science Center and home to the only NIH Fogarty International Center Training Grant.

The 7 Centers and Institutes housed in the College in CY 2016 are innovative and support multiple external partnerships and research of students and faculty.

The publications of our faculty (251 in total) indicate state of the art contributions to science which are of major importance locally, nationally, and internationally.

We are proud of our accomplishments and look forward to another year of research excellence.

A handwritten signature of Michael G. Perri.

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

A handwritten signature of Linda B. Cottler.

Linda B. Cottler, PhD, MPH, FACE
Associate Dean for Research
Chair, Department of Epidemiology

PHHP CY2016

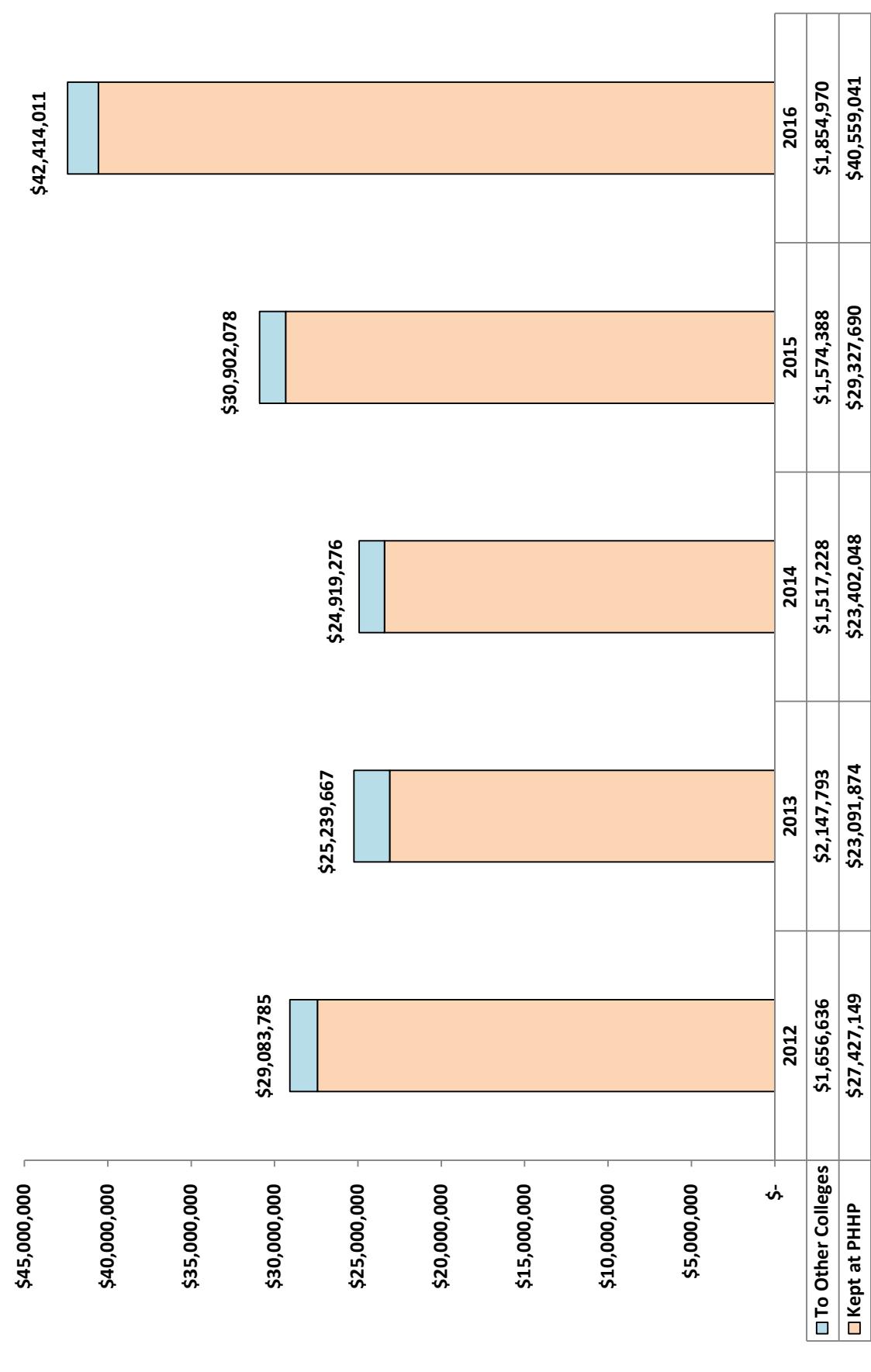
Funding and Proposals

2016 PHHP Summary of Sponsored Research Activity CY 2016

Proposals Submitted*	269
Awards Received*	162
Grant & Contract Dollars Awarded	\$42,414,011
Faculty Receiving Awards*	72
Sponsors	102

* As submitting and subcontract PI

PHHP: Total Funding Received from Calendar Years 2012 to 2016



PHHP Number of Grants as Submitting and Subcontract PI by Mechanism: 2014, 2015, & 2016

	CY 2014	CY 2015	CY 2016
CORP/CO	8	14	9
CORP-FT	0	1	0
D43	2	1	1
F31	2	4	4
F32	1	2	1
FED-ARMY	0	1	1
FED-CDC	0	0	1
FED-DHHS	0	1	0
FED-DOAg	1	0	2
FED-DOD	1	1	1
FED-DOE	1	0	0
FED-DOH	0	0	1
FED-FT	17	8	10
FED-NSF	2	4	4
FED-VA	6	5	4
FNDN/SOC	17	17	23
FNDN-FT	4	9	5
K01	1	0	0
K23	0	0	1
NIH-FT	22	31	43
NSF-FT	2	1	2
OTHER	4	7	1
R01	14	17	20
R03	0	1	3
R13	1	0	0
R18	1	1	1
R21	3	8	9
R24	1	0	0
R34	0	1	1
ST-DOH	0	0	4
ST-FT	0	1	0
ST-EPA	1	0	0
ST-USF	0	0	1
T32	3	4	4
U01	2	2	1
U10	2	1	1
U24	1	1	1

CORP/CO=Corporation/Company; FNDN/SOC=Foundation/Society;
 FED-FT=Federal Flow-Thru

CY 2016 PHHP Funding by Sponsor (n=102)

0.1% Other \$50,787

2% State \$1,012,669

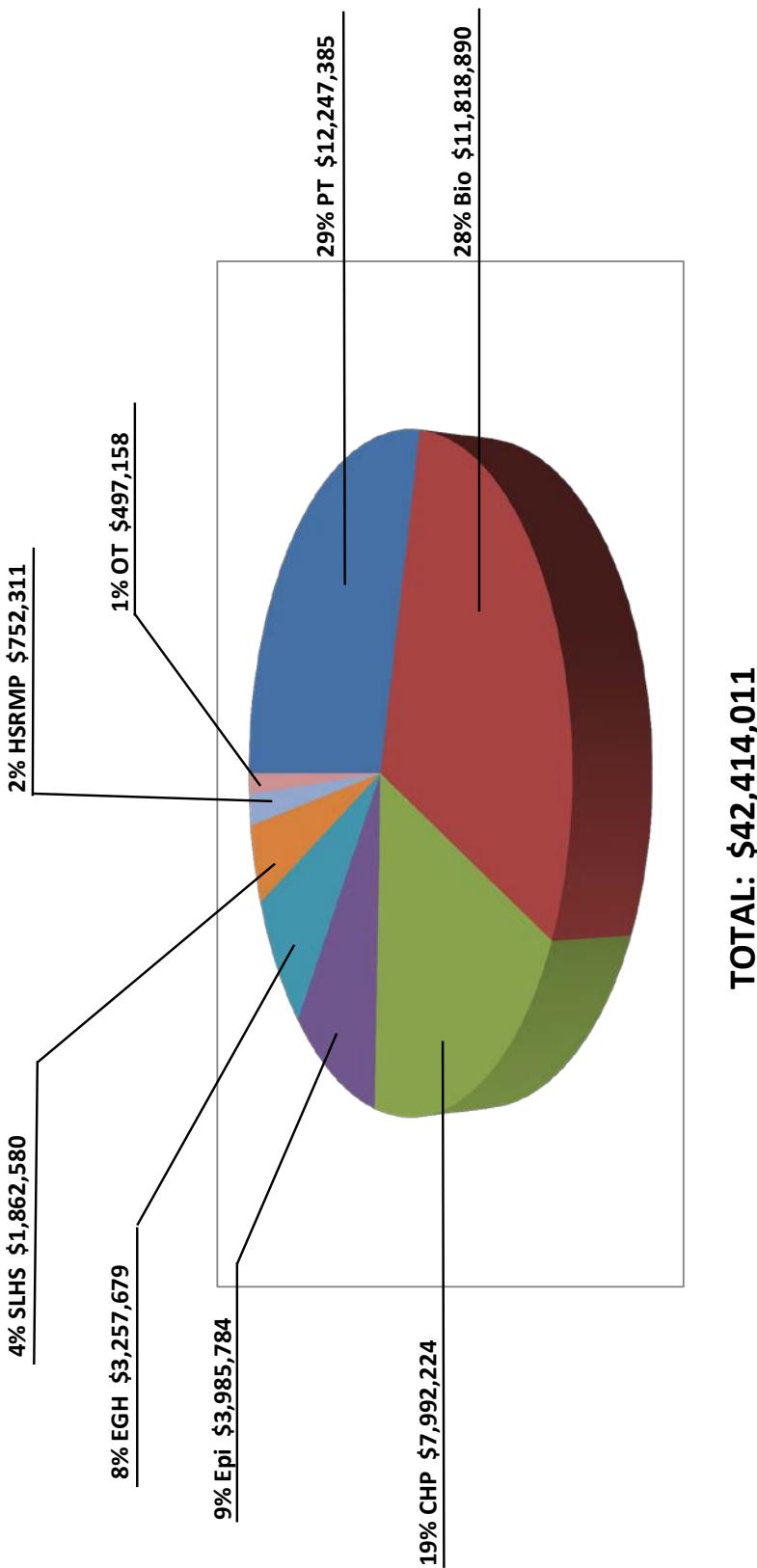
15% Industry \$6,250,736

9% Foundation \$3,808,243

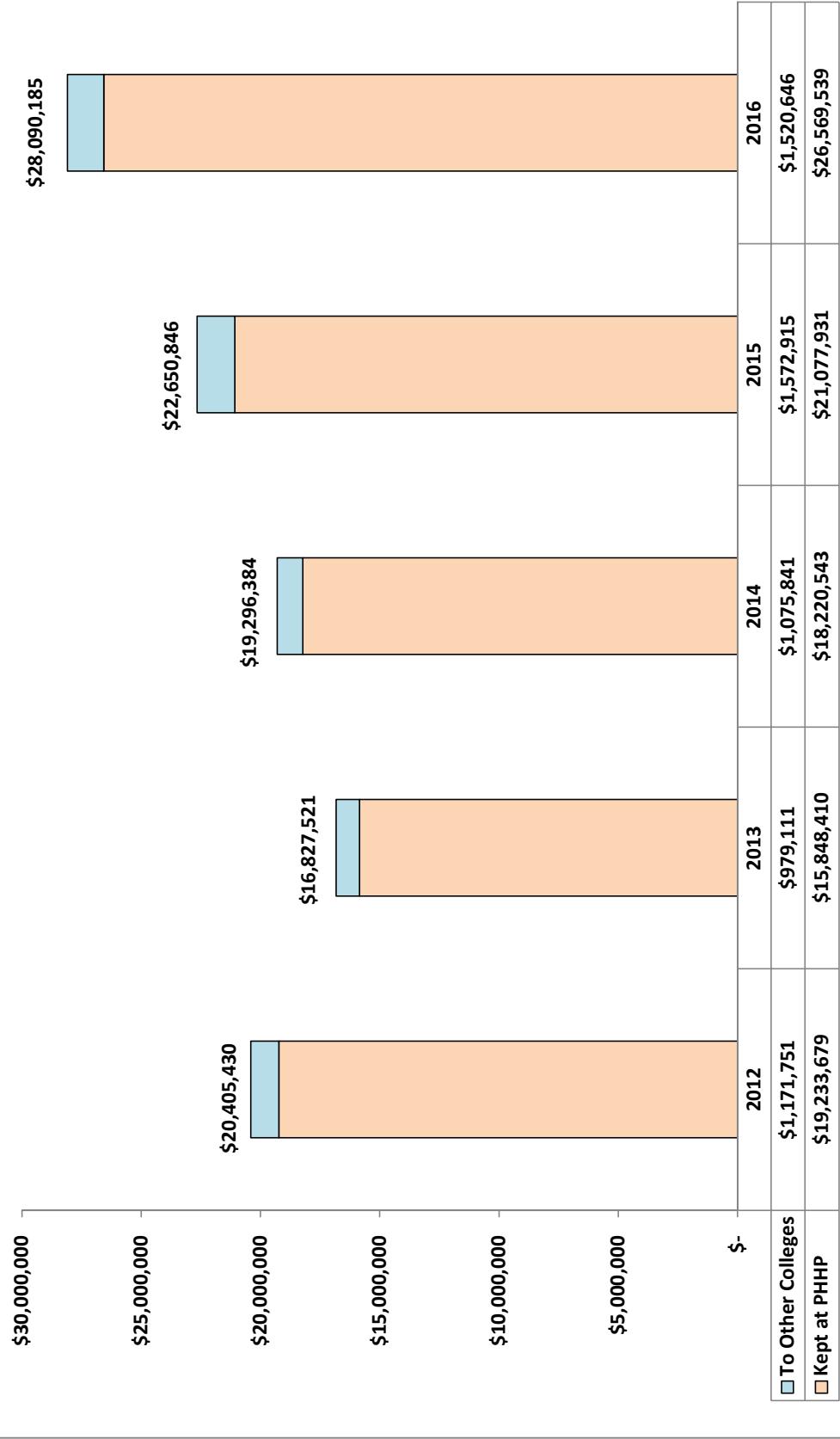
	74% Federal	\$31,291,576
NIH	\$28,090,185	
NSF	\$689,990	
CDC	\$661,993	
Army	\$574,950	
DOA	\$385,050	
DOT	\$227,370	
HHS	\$158,957	
VA	\$144,430	
USAID	\$112,156	
DOE	\$99,724	
HRSA	\$83,573	
FDA	\$28,350	
DHS	\$18,695	
AHRQ	\$16,154	

TOTAL: \$42,414,011

CY 2016 PHHP Funding by Department

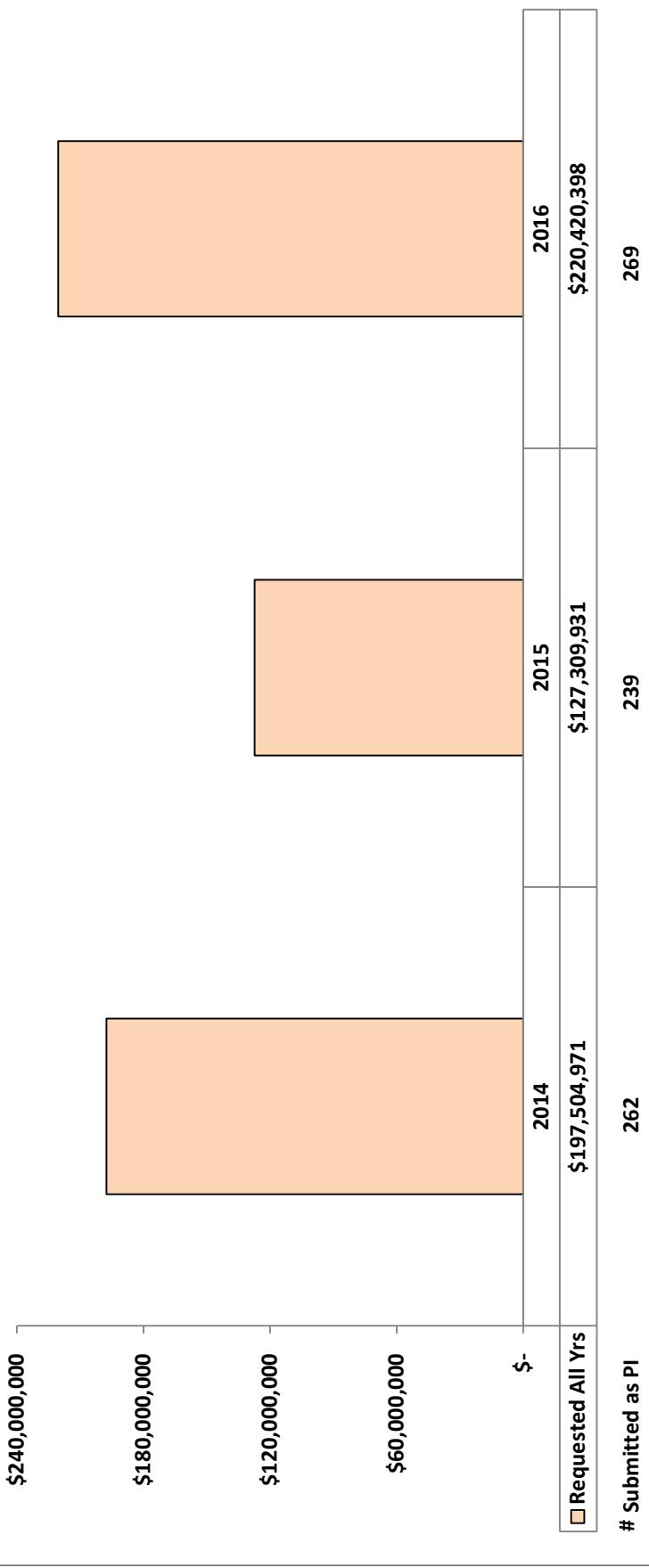


PHHP NIH* Funding Received from Calendar Years 2012 to 2016



* only includes flow through when NIH is the Prime Agency

**PHHP: Proposals Submitted as Main PI in Calendar Years 2014 to 2016
(Amount Requested All Years)**



PHHP CY2016

Training Grants

Department of Clinical and Health Psychology

DIRECTOR: BOWERS, DAWN

CO-DIRECTOR: 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

DIRECTOR: MARSISKE, MICHAEL

CO-DIRECTOR: N/A

TITLE: PHYSICAL, COGNITIVE AND MENTAL HEALTH IN SOCIAL CONTEXT

AGENCY: NIH – NATIONAL INSTITUTE ON AGING

MECHANISM: T32

FUNDING PERIOD: 5-1-13 to 4-30-18

OF PRE-DOCS: 6

OF POST-DOCS: 0

Department of Epidemiology

DIRECTOR: COTTLER, LINDA

CO-DIRECTOR: NIXON, SARA JO

TITLE: UF SUBSTANCE ABUSE TRAINING CENTER IN PUBLIC HEALTH

AGENCY: NIH – NATIONAL INSTITUTE ON DRUG ABUSE

MECHANISM: T32

FUNDING PERIOD: 7-1-14 to 6-30-19

OF PRE-DOCS: 4

OF POST-DOCS: 2

DIRECTOR: COTTLER, LINDA

CO-DIRECTOR: BUSSING, REGINA

TITLE: INDO-US FOGARTY TRAINING PROGRAM IN BEHAVIORAL HEALTH

AGENCY: NIH – FOGARTY INTERNATIONAL CENTER

MECHANISM: D43

FUNDING PERIOD: 9-1-11 to 7-31-19

OF PRE-DOCS: VARIABLE

OF POST-DOCS: VARIABLE

Department of Physical Therapy

DIRECTOR: VANDENBORNE, KRISTA

CO-DIRECTOR: N/A

TITLE: INTERDISCIPLINARY TRAINING IN REHABILITATION AND NEUROMUSCULAR PLASTICITY

AGENCY: NIH – NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT

MECHANISM: T32

FUNDING PERIOD: 5-1-14 to 4-30-19

OF PRE-DOCS: 6

OF POST-DOCS: 0

PHHP CY2016

Centers and Institutes

Center for the Study of Emotion and Attention

Director: Peter J. Lang, Ph.D.

Department: Clinical and Health Psychology

Year Started: 1985

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.

Center for Pediatric Psychology and Family Studies

Director: David Janicke, Ph.D.

Department: Clinical and Health Psychology

Year Started: 1990

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 will co-sponsor the International Conference on Parent-Child Interaction Therapy.

Center for Pain Research and Behavioral Health

Director: Michael E. Robinson, Ph.D.

Department: Clinical and Health Psychology

Year Started: 1993

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.

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

Director: Sandra Winter, Ph.D., OTR/L

Department: Occupational Therapy

Year Started: 2009

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.

Center for Statistics and Quantitative Infectious Diseases

Co-Director: Ira M. Longini, Jr, Ph.D.

Department: Biostatistics

Year Started: 2015

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 Respiratory Research and Rehabilitation

Director: Gordon Mitchell, Ph.D.

Department: Physical Therapy

Year Started: 2015

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.

Hearing Research Center

Director: Andrew Lotto, Ph.D.

Department: Speech, Language and Hearing Sciences

Year Started: 2016

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.

PHHP Fiscal Year (FY) 2016 Publications

(July 1, 2015 to June 30, 2016)

FY16 Publications: Department of Biostatistics (Page 1)

- Akbar U, Dham B, He Y, Hack N, Wu S, Troche M, Tighe P, Nelson E, Friedman JH, Okun MS. (2015). Incidence and mortality trends of aspiration pneumonia in Parkinson's disease in the United States, 1979 – 2010. *Parkinsonism Relat Disord.* 21(9):1082-6.
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- Bible J, Beck J D, and Datta S. (2016). Cluster adjusted regression for displaced subject data (CARDS): marginal inference under potentially informative temporal cluster size profiles. *Biometrics*, 72, 441-451.
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- Chen Z, Huang H, and Qiu P. (2016). Comparing multiple hazard rate functions. *Biometrics*, 72; 39-45.
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- Childs JD, Wu SS, Andrade RL, Bonner VE, Bowman JA, Butler AM, Teyhen DS, George SZ. (2015). Incremental effects of telephone call center and healthcare utilization database use to improve follow-up rate in the prevention of low back pain in the military trial. *The United States Army Medical Department Journal*. 24-30.
- Choo-Wosoba H, Levy S M, and Datta S. (2016). Marginal regression models for clustered count data based on zero-inflated Conway-Maxwell-Poisson distribution with application to the Iowa Fluoride Study. *Biometrics*, 72, 606-618.
- Cook RL, Kelso NE, Brumback BA, and Chen X. (2016). Analytic strategies to evaluate the association of time-varying exposures to HIV-related outcomes: Alcohol consumption as an example. *Current HIV research*, 14(2), 85-92.
- Coro JC, Velasques RL, Coro IM, Wheeler TT, McGorrity SP, Sato S. (2016) Relationship of maxillary 3-dimensional posterior occlusal plane to mandibular spatial position and morphology. *American Journal of Orthodontics and Dentofacial Orthopedics* 150:140-52
- Dahodwala N, Pei Q, Wu S, Schmidt P, Cubillos F, Dahodwala N. (2016) Sex Differences in Clinical Progression of Parkinson's Disease. *Journal of Obstetric Gynecologic and Neonatal Nursing*, 45(5):749-56

FY16 Publications: Department of Biostatistics (Page 2)

- Datta S, Carmen Pardo M, Scheike T, and Yuen K C (2016). Editorial: Special issue on advances in survival analysis. Computational Statistics and Data Analysis, 93: 255–256.
- Datta S, and Datta S (2016). A novel rank-sum test for clustered data when the number of subjects in a group within a cluster is informative. *Biometrics*, 72, 432-440.
- Dean NE, Halloran ME, Yang Y, Longini IM. (2016). The transmissibility and pathogenicity of Ebola virus: a systematic review and meta-analysis of household secondary attack rate and asymptomatic infection. *Clinical Infectious Diseases*, 62(10): 1277-1286.
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- Drobná Z, Martin E, Kim K S, Smeester L, Bommarito P, Rubio-Andrade M, García-Vargas G G, Styblo M, Zou F, and Fry R C (2016) Analysis of maternal polymorphisms in arsenic (+3 oxidation state)-methyltransferase AS3MT and fetal sex in relation to arsenic metabolism and infant birth outcomes: Implications for risk analysis Reproductive Toxicology. 61:28-38.
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FY16 Publications: Department of Biostatistics (Page 3)

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- Kenah E, Britton T, Halloran M E, and Longini I M. (2016). Molecular Infectious Disease Epidemiology: Survival Analysis and Algorithms Linking Phylogenies to Transmission Trees. *PLoS Comput Biol.* 12(4):e1004869.
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