Grant Submissions and Awards Summary September 2014- July 2015

September 2014

Dr. Marla Erbin-Roesemann, PhD, RN – Director & Professor St. David’s School of Nursing

Advanced Specialty Experience (ASE), proposal submitted to the St. David’s Foundation. St. David's School of Nursing proposes to develop an Advanced Specialty Experience (ASE) internship which will provide strategies and clinical experiences to develop the requisite skills in the areas of service excellence. The proposal was awarded $110,702.00 for a two year period.

Dr. Daniel J. Wescott – Director Forensic Anthropology Center & Associate Professor Anthropology is the Principal Investigator for the Center for Necrobiome Research and its Application in Decomposition Ecology and Forensic Science proposal submitted to the National Science Foundation (NSF). The center will serve as a leader in microbiome and decomposition research and its application to forensics, and human and environmental health. The research team assembled is comprised of leaders in the field and will guide this center effectively and produce valuable results advancing the field and its applications. The proposal requested $11,481 for one year.

Co-Principal Investigator
Dr. Rodney E. Rohde, PhD, MS, SV, SM(ASCP) CMMBCM Chair & Professor, Clinical Laboratory Science Program

Dr. Marla Erbin-Roesemann, PhD, RN – Director & Professor St. David’s School of Nursing

Professional Nursing Shortage Reduction Program FY15 proposal submitted to the Texas Higher Education Coordinating Board. These funds are given to public and private nursing programs that show an increase in the total number of nursing graduates at all degree levels. The formula grant is based on enrollment and graduation rates for a 12 month period. The School of Nursing was awarded $83,584 for FY 2015.

October 2014

Dr. Marla Erbin-Roesemann, PhD, RN – Director & Professor St. David’s School of Nursing

The overall goal of this grant opportunity is for nursing programs to build capacity in the use of lab and simulation instruction and to reduce the number of contact hours in patient care clinical situations. The proposal was awarded $149,990 for a two year period.

Dr. Denise Gobert, PhD – Associate Professor in the Department of Physical Therapy

is the Principal Investigator for Post-Concussion Patient Response to Hyperbaric Oxygen Treatment as proposal submitted to Arise Austin Medical Center. The study proposes to explore the use of hyperbaric oxygen therapy for patients recovering from mild concussive brain injury or traumatic brain injury. The proposal was awarded $2,000 for a 12 month period.

January 2015

Dr. Shannon Weigum, Ph.D. - Assistant Professor of Biology, MSEC is Principal Investigator for MRI: Acquisition of a Microfluidic Chip-based Cell Sorter for Multi-Disciplinary Research submitted to the National Science Foundation (NSF). Proposal requested $346,250.00 for a 3 year period.

Co-Principal Investigators
Dr. Rodney E. Rohde, PhD, MS, SV, SM(ASCP) CMMBCM Chair & Professor, Clinical Laboratory Science Program
Dr. Tania Betancourt, Faculty Chemistry and Biochemistry, MSEC
Dr. Hong-Gu Kang, Assistant Professor, Biology
Dr. Michelle A. Lane, Associate Professor, Family and Consumer Sciences
Dr. Walter Rudzinski, Professor Chemistry and Biochemistry

February 2015

Dr. Amy Louise Schwarz, PhD, CCC-SLP – Assistant Professor Department of Communication Disorders is the Principal Investigator for Read-Aloud Storybook Selection Systems for Teachers Serving Preschoolers Who are Deaf or Hard of Hearing, a proposal submitted to the Spencer Foundation. This project will operationalize book selection criteria used by ASL, oral, and SimCom teachers and will yield booklists that represent various difficulty levels. The proposal requested $49,997 for a two year period.

Dr. Eduardo Perez, Ph.D., B.S. - Assistant Professor Ingram School of Engineering is Principal Investigator for Reducing CAUTIs in the ICU by Using Systems Simulation Modeling proposal submitted to Agency for Healthcare Research & Quality (AHRQ). This proposed project will utilize the state-of-the-art healthcare systems engineering method of discrete event simulation modeling for addressing CAUTIs beyond the current state of practice. The proposal requests $2,158,514.00 for a five year period.

Dr. Rodney E. Rohde, PhD, MS, SV, SM(ASCP) CMMBCM Chair & Professor, Clinical Laboratory Science Program

May 2015

Dr. Vangelis Metsis – Assistant Professor of Computer Science is the Principal Investigator for CPS: Synergy: Collaborative Research: Non-Invasive Multisource Biosignal Acquisition and Analysis for Sleep Disorder Assessment proposal submitted to the National Science Foundation (NSF). The proposed system
The system will employ a set of wireless non-invasive sensors, thus alleviating the inconvenience of the currently used wiring in sleep labs, in combination with data de-noising. The proposal requests $517,087.94 for a three year period.

Co-Principal Investigator
Dr. Gregg Marshall, Ph.D., RRT, RPSGT, RST – Chair, Program Director & Professor
Department of Respiratory Care

June 2015

Dr. Rodney E. Rohde, PhD, MS, SV, SM(ASCP) CMMBCM - Chair & Professor, Clinical Laboratory Science is Principal Investigator for Sarcoidosis Research Initiative, a proposal submitted to an anonymous foundation. Sarcoidosis Research Initiative is a prospective study of patients diagnosed with Sarcoidosis aimed at advancing the understanding of the disease in regards to parameters such as environmental exposure, family history, genetic predisposition, health assessment, and outlook of the disease. The proposal was awarded $25,000 for a 12-month period.

Co-Principal Investigator (Contractor)
Dr. Louis B. Caruana, Ph.D., Distinguished Professor Emeritus, Clinical Laboratory Science

Dr. Janet Bezner, PT, DPT, PhD – Associate Professor in the Department of Physical Therapy is the Principal Investigator for Enhancing Physical Activity Programming for Employee Well-being at Texas State University, a proposal submitted to the Osteoarthritis Action Alliance (OAAA) in response to its RFA, entitled Implementation Strategies to Increase Physical Activity among Adults with Osteoarthritis. Enhancing Physical Activity Programming for Employee Well-being at Texas State University will build on the Texas State University Employee Wellness pilot program that was initiated in spring 2015. Comprehensive worksite wellness programs should be inclusive and explicitly incorporate the needs of adults with arthritis in their programs without requiring disclosure of arthritis diagnosis. Specifically, the overarching goal of this proposal is to modify the Texas State Employee Wellness Program to meet the needs of the primarily sedentary population, including those with osteoarthritis and/or other chronic diseases. Grant support from OAAA will significantly improve the Texas State Wellness program, allowing us to:

- Enhance the education of physical activity instructors so that they are more knowledgeable about how to support and motivate employees with chronic disease,
- Add low impact physical activity classes to our list of classes,
- Delineate and rate the walkability of campus routes on campus,
- Implement a walking program on campus, and
- Develop and implement a series of educational sessions on chronic disease, in particular, osteoarthritis.

The proposal was awarded $24,829 for a 12-month period.

Co-Principal Investigators
- Lisa Lloyd, PhD, Department of Health and Human Performance/Exercise and Sports Science
- Sylvia Crixell, RD, PhD, School of Family and Consumer Sciences/Nutrition and Foods

Dr. Tianki Wang, PhD – Assistant Professor in Health Information Management Department (HIM) is the Principal Investigator for The Effects of Medicaid Disproportionate Share Hospital Payment Reduction in Texas, a proposal submitted to the NIH-AHRQ Small Grant Program. This research study will investigate the impact of a provision of the Affordable Care Act and its effects of the Medicaid Disproportionate Share Hospital reduction in Texas. The proposed project has four objectives: (1) assess the relationship between the Medicaid DSH payment and Medicaid accessibility, (2) investigate the
financial impacts on the DSH hospitals in Texas due to the Medicaid DSH reduction, (3) examine whether financial challenges have adverse effects, such as lower Medicaid service quality and more limited accessibility, and (4) find solutions to the financial challenges. The proposal requests $100,000 for one year.