



BROKERAGE FOR HEALTH

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THOMAS JEFFERSON UNIVERSITY

INTERNATIONAL RESEARCH

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Thomas Jefferson University

- Home of Thomas Jefferson University and the Sidney Kimmel Medical College
- 9 colleges and 4 schools spanning **medicine**, **science**, but also architecture, design, fashion, textiles, business, engineering and more
- 160 undergraduate/graduate programs, 7,800 students, 1,070 medical student rotations, 1,300 residents and fellows



Jefferson.edu JeffersonHealth.org

- Ranked by U.S. News & World Report as the nation's 16th Best Hospital; nationally ranked in 11 clinical specialties (***)
- 13 hospitals, 2,824 licensed beds, 6,000 physicians and practitioners, 7,200 nurses
- 50+ outpatient and urgent care locations and 3 million outpatient visits
- NCI-designated Sidney Kimmel Cancer Center
- Over 110 million USD in public/private research funding

***** Among the top 10 in the U.S.**

Ear, Nose & Throat; Ophthalmology (Wills Eye Hospital); Orthopedics (Rothman Institute, Philadelphia Hand to Shoulder Center)

***** Nationally (U.S.) Ranked Specialties**

Cancer (Sidney Kimmel Cancer Center); Cardiology & Heart Surgery; Diabetes & Endocrinology; Gastroenterology & GI Surgery; Geriatric; Nephrology; Neurology & Neurosurgery (Vickie & Jack Farber Institute for Neuroscience); Urology

Topic

Topics we wish to participate in:

SC1-BHC-19-2018 Implementation Research for Maternal and Child Health

SC1-BHC-02-2019 System Approaches for the Discovery of Combinatorial Therapies for Complex Disorders

SC1-BHC-07-2019 Regenerative medicine: from new insights to new applications

Keywords

Post-partum sepsis, mobile health, point of care tests, cervical length screening, preterm birth, amyotrophic lateral sclerosis, drug efflux transporters, Parkinson's disease, tissue regeneration, fibrotic scarring, fibrillogenesis.



Prevention and Early Detection of Postpartum Sepsis

Design of a new strategy for early detection and referral of women with signs of postpartum infection or sepsis. Introduction and testing of a set of simple, low cost, interventions to use at birth facilities and in the community. The interventions will take advantage of new point of care tests and utilize mobile Health (mHealth) technologies, to obtain an immediate diagnosis, earlier referrals and treatments. The study will assess the final benefits in term of disease stage at diagnosis and cost impact for an earlier detection.

Mixed methods and a hybrid design will be utilized in under-resourced countries in Rwanda and Bangladesh to:

- assess if handwashing and aseptic technique meet standards and are effective;
- design new strategies for early recognition of signs and symptoms of postpartum infection and sepsis and determine if this results in timelier referral;
- introduce a set of simple, low-cost interventions for use in delivery facilities and in communities;
- incorporate mHealth technology and use of new approaches for point-of-care testing and determine if this results in earlier diagnosis and treatment at an earlier stage of disease;
- perform an analysis of study interventions against implementation outcome variables of acceptability, cost-effectiveness, scale-up feasibility and sustainability

Partners include centers from Ireland, England, Austria and Belgium.

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SC1-BHC-19-2018 Implementation Research for Maternal and Child Health

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Implementation of Cervical Length Screening for Preterm Birth Prevention

Primary aim is to introduce the use of a low cost screening test, cervical length ultrasound during routine OB ultrasound, to detect short cervix and prevent preterm birth. Cervical length screening protocol includes use of low cost interventions, cerclage or progesterone, for prevention of preterm birth in women found to have a short cervix. Secondary aims include to assess patient, provider, and system level barriers to implementation of cervical length screening and provide education for patients, providers, and healthcare administrators regarding cervical length screening and preterm birth prevention.

Partners include centers from Italy, Portugal, France, Norway, UK, Ireland, Egypt and Nigeria.

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SC1-BHC-19-2018 Implementation Research for Maternal and Child Health



Attacking Disease-Driven Pharmacological Resistance in Amyotrophic Lateral Sclerosis (ALS).

Study the role of P-gp and BCRP drug efflux transporters in limiting the effective treatments for ALS. The ultimate goal is to characterize P-gp/BCRP transporters and develop specific P-gp/BCRP inhibitors to use in combination with ALS treatments as a strategy to enhance the efficacy of ALS therapeutics.

Partners include centers from Italy and Belgium.

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SC1-BHC-02-2019 System Approaches for the Discovery of Combinatorial Therapies for Complex Disorders

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Eliminating Fibrotic Scarring to Enable Tissue Regeneration

We have recognized collagen fibrillogenesis as a valid extracellular target to limit excessive scarring that hampers tissue regeneration. We point to the fact that collagen fibrillogenesis is necessary to form fibrotic scars. To block this process, we engineered a therapeutic antibody able to control collagen fibrillogenesis. We demonstrated that we can limit the formation of fibrotic scars without compromising the healing process. Our antibody has been recently patented, thereby offering attractive opportunities for research and development activities that would lead toward preclinical, then clinical tests.

Potential partners include centers from Germany, Poland, Austria, and Spain.

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SC1-BHC-07-2019 Regenerative medicine: from new insights to new applications



Contact details

Thank you!

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