



Early Clinical Data Support for Grant Submissions

Funded Projects

This Harvard Catalyst initiative will provide the resources needed to generate preliminary data that will be included in a future application for NIH K or R funding (or equivalent federal or non-federal peer-reviewed sponsored research). It is anticipated that Harvard investigators will leverage this support at this critical time in their careers so that they may compete successfully for federal and non-federal sponsored funding.

This funding opportunity was open to all Harvard investigators, irrespective of type of degree or institutional affiliation, who are applying for a peer-reviewed clinical research grant (at the K or R level).

Twenty-two investigators were awarded amounts of up to \$30,000 for each project.

Funding decisions for the Early Clinical Data Support for Grant Submissions opportunity were announced in January 2015.

Mandy Belfort, MD, MPH, Boston Children's Hospital
Pilot Studies of Human Milk Hormones and Preterm Infant Growth

Heather Burris, MD, MPH, Beth Israel Deaconess Medical Center
Long Non-coding RNA in the Cervix During Pregnancy

Laura Dichtel, MD, MHS, Massachusetts General Hospital
Growth Hormone Assessment in Patients with Biopsy Proven Nonalcoholic Fatty Liver Disease

Jody Dushay, MD, Beth Israel Deaconess Medical Center
Regulation of Fibroblast Growth Factor 21 (FGF21) by Fructose in Humans

Heather Jacene, MD, Brigham and Women's Hospital
Imaging Angiogenesis in Inflammatory Breast Cancer with Zirconium-89 (89Zr)-bevacizumab-PET

Lamya Karim, PhD, Beth Israel Deaconess Medical Center
Bone Quality Deficits in Type 2 Diabetes Mellitus

Eric Klawiter, MD, Massachusetts General Hospital
Longitudinal Connectivity Changes in Multiple Sclerosis

Sophia Koo, MD, Brigham and Women's Hospital
Kinetics of *Aspergillus* Volatile Metabolites in Breath with Antifungal Therapy

Daniel Kramer, MD, MPH, Hebrew SeniorLife
CAFE Study: Correlating Activity and Frailty Evaluations

Peggy Lai, MD, MPH, Massachusetts General Hospital
Poultry Microenterprise, Environmental and Airway Microbiome, and Health

Jonathan Li, MD, Brigham and Women's Hospital
Impact of HIV Integration Sites on Viral Persistence

Pei-Yi Lin, PhD, Massachusetts General Hospital
Cerebral Blood Flow and Metabolism in Infants Under General Anesthesia

Rebekah Mannix, MD, MPH, Boston Children's Hospital
Developing Imaging Biomarkers of Injury and Recovery after Pediatric Concussion

Sydney Montesi, MD, Massachusetts General Hospital
Use of Novel Biomarkers and Imaging to Assess Disease Activity in IPF

Lise Nigrovic, MD, MPH, Boston Children's Hospital
Novel Serologic Assays for the Diagnosis of Lyme Disease in Children

Kathryn Penney, ScD, Brigham and Women's Hospital
Prostate Cancer Gene Expression Profiling in African American Patients

Jurriaan Peters, MD, Boston Children's Hospital
Functional and Structural Connectivity and Anatomic-pathological Correlation of Epileptogenesis
in Tuberous Sclerosis Complex

Jeremiah Scharf, MD, PhD, Massachusetts General Hospital
Leveraging Differences in Aggregate Polygenic Burden to Prioritize Individuals with Tourette
Syndrome

Jonathan Schoenfeld, MD, MPH, Brigham and Women's Hospital
Evaluating Radiation as an *In Vivo* Vaccine – The Effects of Site Irradiated, Histology and
Fractionation on Immunologic Parameters in Treated Patients

Ravi Shah, MD, Beth Israel Deaconess Medical Center
Myocardial Tissue Architecture in Heart Failure: Implications on Physiology and Fitness

Linus Tsai, MD, PhD, Beth Israel Deaconess Medical Center
Evaluation of Human Adipose Tissue Stromal Heterogeneity in Metabolic Disease Using Single
Cell RNA-seq

Changning Wang, PhD, Massachusetts General Hospital
Epigenetic Mechanisms in Human Memory Quantified by Non-invasive PET Imaging