

## Research Grants:

### Active Grants:

2014-2017

Lead Principal Investigator, SCH: EXP: Collaborative Research:

*Design of a wearable biosensor system with wireless network for the remote detection of life threatening events in neonates*

Source: NSF; Amount: \$656,583 (\$144,754 transferred to UT-Tyler);

(Co-PIs: David Paydarfar, UT-Austin; Honggang Wang & Yong Kim, UMASS Dartmouth)

2016-2021

Principal Investigator (Analytical Core)

*Prematurity-related ventilatory control (Pre-Vent)*

Source: National Institute of Health (NIH); Amount: \$2,455,474 (\$518,645 for UT-Tyler) (PI: Namasivayam Ambalvanan, UAB)

2016-2019

Co- Investigator

*Design of a wearable sensor system and associated algorithm to track suicidal ideation from movement variability and develop a novel objective marker of suicidal ideation and behavior risk in veterans.*

Source: Department of Veterans Affairs (VA); Amount: \$359,996 (\$55,900 for UT-Tyler) (PI: Eric Smith, VA)

### Completed Grants:

2015-2016

Principal Investigator (on subcontract)

*Development of an algorithm to detect and score asthmatic breathing/wheezing respiratory signal of pediatric subjects*

Source: Wyss Institute; Amount: NA (\$34,028 for subcontract)

(PI: Don Ingber & Benjamin Mathews, HMS)

2013-2015

Investigator

*Abstinence and Drug Withdrawal: Innovative Translational Approach for Neonates.*

Source: NIH; Amount: \$431,156

(PI: Elisabeth Bloch-Salisbury, UMMS)

2010-2014	Investigator <i>Circadian Biology at the Supra-Organismal level.</i> Source: NIH; Amount: \$1,537,101 (PI: William Schwartz, UMMS)
2010-2014	Investigator <i>New Technologies for Detection and Treatment of Infant Apnea.</i> Source: Wyss Institute; Amount: \$958,263 (PI: David Paydarfar, UMMS)
2008-2009	Principal Investigator (on subcontract) <i>A Computational Tool Based on Heart Beat Dynamics to Predict Apnea Episodes in Infants.</i> Source: CIMIT; Amount: \$28,000 (PI: Riccardo Barbieri, HMS)
2007-2010	Investigator <i>Pathological Disturbances in Respiratory Rhythm.</i> Source: Department of Clinical and Translational Science, UMMS; Amount: \$150,000 (PI: David Paydarfar, UMMS)
2004-2007	Investigator <i>Nonlinear Dynamics of Oscillator Networks in Neuroscience.</i> Source: University of Massachusetts Medical Source: School Research Trust Funds; Amount: \$250,000 (PI: David Paydarfar, UMMS)
2001-2004	Co-Investigator <i>Mathematical Model for Scheduled Light Exposure: Circadian Performance Countermeasure.</i> Source: NASA/NSBRI; Amount: NA (PI: Megan E Jewett, HMS & Elizabeth B Klerman, HMS)
2001-2004	Investigator <i>Development and Validation of a Computational Model for Intra-Cellular Circadian Oscillators.</i> Source: DARPA; Amount: NA (PI: Megan E Jewett, HMS & David Weaver, UMMS)