

2009 CTSI Pilot Projects Awarded

Dear Colleagues:

We are pleased to announce that out of 67 applications received, the Clinical and Translational Science Institute (CTSI) has selected the following 19 pilot projects for funding. Pooling of the resources of the College of Medicine, Huck Institutes of the Life Sciences, the Social Science Research Institute, and the Institute for CyberScience enabled us to support a larger-than-anticipated number of projects, reflecting the strong commitment of CTSI and the other Institutes to supporting innovative and collaborative translational research. The projects involve 57 faculty members at both campuses that span nine colleges. Thanks to all those faculty who submitted proposals—the projects reflect Penn State's depth and diversity of research. We would also like to extend our thanks to the 37 faculty members who acted as peer reviewers.

Congratulations to all the awardees!

Larry Sinoway, MD

Urs Leuenberger, MD

Susan McHale, PhD

Alan Snyder, PhD

Peter Hudson, FRS

Padma Raghavan, PhD

T Cells and Macrophages in Asthma and Respiratory Infections

Avery August, PhD	Agricultural Sciences/Vet Biomed Sci
Rebecca Bascom, MD	Medicine/Medicine
Margherita Cantorna, PhD	Agricultural Sciences/Vet Biomed Sci
Soheil Chagini, MD	Medicine/Medicine
Timothy Craig, DO	Medicine/Medicine
Pamela Hankey, PhD	Agricultural Sciences/Vet Biomed Sci
Eric Harvill, PhD	Agricultural Sciences/Vet Biomed Sci
Sandeep Prabhu, PhD	Agricultural Sciences/Vet Biomed Sci

Effects of Bright Light Treatment on Sleep and Depression of Elders in Long Term Care

Noel Ballentine, MD	Medicine/Medicine
Richard Behr, PhD	Engineering/Architectural Eng
Edward Bixler, MD	Medicine/Psychiatry
Robert Bonneau, PhD	Medicine/Microbiology and Immunology
Kevin Gleeson, MD	Medicine/Medicine
Kevin Houser, PhD	Engineering/Architectural Eng
Richard Mistrick, PhD	Engineering/Architectural Eng
Alexander Vgontzas, MD	Medicine/Psychiatry

Gait Asymmetry as a Clinical Tool for Early Detection of Parkinson's Disease

Xuemei Huang, MD, PhD	Medicine/Neurology
Joseph Cusumano, PhD	Engineering/Engineering Sci and Mechanics
Stephen Piazza, PhD	Health and Human Devel/Kinesiology

Chemical Microbiology Tools for Development of Antibiotics Against Multiple Drug-resistant Organisms

Kenneth Keiler, PhD	Eberly College of Science/Biochemistry and Mol Biology
Sarah Ades, PhD	Eberly College of Science/Biochemistry and Mol Biology
Stephen Bencovic, PhD	Eberly College of Science/Chemistry
Squire Booker, PhD	Eberly College of Science/Chemistry

Metabolite Analysis of Human Vitreous Samples from Diabetic Patients

Mark Kester, PhD	Medicine/Pharmacology
Maria Bewley, PhD	Medicine/Biochemistry and Molecular Biology
John Flanagan, PhD	Medicine/Biochemistry and Molecular Biology
Thomas Gardner, MD	Medicine/Ophthalmology

HPV and Its Vaccine: Epidemiology, Education, Natural History, and Evolution Among Young Adults in Appalachia

Craig Meyers, PhD	Medicine/Microbiology and Immunology
Neil Christensen, PhD	Medicine/Pathology
Brenda Kluhsman, PhD	Medicine/Public Health Sciences
Eugene Lengerich, VMD	Medicine/Public Health Sciences
Roxanne Parrot, PhD	Arts and Sciences/Communication
Andrew Read, PhD	Eberly College of Science/Biology and Entomology

Biomarker Study of Methionine Restriction in Healthy Adults

John Richie, PhD	Medicine/Public Health Sciences
Terryl Hartman, PhD	Health and Human Development/Nutrition
Jason Liao, PhD	Medicine/Public Health Sciences

CD133 Targeted Nanoliposomes for Liver Cancer Stem Cell Therapy

Carl Rountree, MD	Medicine/Pediatrics
Harriet Isom, PhD	Medicine/Microbiology and Immunology
Yixing Jiang, MD, PhD	Medicine/Hematology-Oncology
Mark Kester, PhD	Medicine/Pharmacology
Kevin Staveley-O'Carroll, MD, PhD	Medicine/Surgery

Predicting Ipsilesional Motor Deficits in Stroke with the Dynamic Dominance Model

Robert Sainburg, PhD	Health and Human Development/Kinesiology
David Good, MD	Medicine/Neurology
Frank Hillary, PhD	Liberal Arts/Psychology

The Origin of Postinfectious Hydrocephalus in Developing Countries

Steven Schiff, MD, PhD	Medicine/Neurosurgery
Vivek Kapur, BVSc, PhD	Agricultural Sciences/Veterinary and Biomed Sci
Mary Poss, DVM, PhD	Agricultural Sciences/Veterinary and Biomed Sci

Adaptive, Personalized Healthcare Monitoring and Delivery for Diabetes Control

Nadine Smith, PhD	Engineering/Bioengineering
Robert Gabbay, MD	Medicine/Medicine
Mahmut Kandemir, PhD	Engineering/Computer Science and Engineering
Penny Kris-Etherton, PhD	Health Human Development/Nutrition
Peter Molenaar, PhD	Health Human Development/Human Development and Family Studies
Padma Raghavan, PhD	Engineering/Computer Science and Engineering
Jan Ulbrecht, MB BS	Health Human Development/Biobehavioral Health
Qian Wang, PhD	Engineering/Mechanical and Nuclear Engineering

Investigating the Social Influences Underlying Agricultural and Malaria Practices in Mozambique in Order to Diffuse Innovations in Beans and Malaria Vector-control

Rachel Smith, PhD	Liberal Arts/Communication Arts and Sciences
Jill Findeis, PhD	Agricultural Sciences/Agricultural Economics
Jonathan Lynch, PhD	Agricultural Sciences/Horticulture
Andrew Read, PhD	Eberly College of Science/Biology
Matthew Thomas, PhD	Agricultural Sciences/Entomology

Cue-directed Tactile Stimulation and the Premature, Low Birth Weight Infant: Stress Reactivity, Immune Function, and Parenting

Douglas Teti, PhD	Health Human Development/Human Development Family Studies
Robert Bonneau, PhD	Medicine/Microbiology and Immunology
Piotr Janicki, MD	Medicine/Anesthesiology
Kim Kopenhaver Haidet, PhD	Health Human Development/School of Nursing
Stephanie Lanza, PhD	Health Human Development/Methodology Center
Charles Palmer, MD	Medicine/Pediatrics

Automated, Ontology-based Annotation and Retrieval of Histological Images and Quantitative Phenotypes

James Wang, PhD	Information Sciences and Technology
Keith Cheng, MD, PhD	Medicine/Pathology
Jia Li, PhD	Eberly College of Science/Statistics

Design and Evaluation of the Anti-cancer Potential of Haloacetamidines-derived PAD4 Inhibitors

Yanming Wang, PhD	Eberly College of Science/Biochem and Mol Biology
Gong Chen, PhD	Eberly College of Science/Chemistry

Psychophysiological Assessment of Cortical Visual Processing in Children with Amblyopia and Cerebral Visual Impairment (CVI)

Joel Weinstein, MD	Medicine/Ophthalmology
Marianne Bolz, OD	Medicine/Ophthalmology
Richard Gilmore, PhD	Liberal Arts/Psychology
William Trescher, MD	Medicine/Neurology

Brain Iron Content During Deficiency and Repletion: Its Relation to Systemic Status, Iron Stores, and Cognitive Performance

Michael Wenger, PhD	Liberal Arts/Psychology
Anna Engels, PhD	Liberal Arts/Psychology
Susan Lemieux, PhD	Social, Life, and Engineering Sciences Imaging Center
Laura Murray-Kolb, PhD	Health Human Development/Nutrition

Design, Manufacturing Process Development and Statistical Analysis of an Electrically Stimulated Silver based Continual Antibacterial System for Prevention of Nosocomial Infections

Richard Wysk, PhD	Engineering/Industrial and Manufacturing Engineering
Subhashinie Kariyawasam, PhD	Agricultural Sciences/Veterinary Biomed Sci
Robert Voigt, PhD	Engineering/Industrial and Manufacturing Engineering
Douglas Wolfe, PhD	Earth and Mineral Sciences/Materials Science and Engineering

Quantitative Multimodality Image Analysis Tools for Brain Development, Aging and Diseases

Qing Yang, PhD	Medicine/Radiology
James Connor, PhD	Medicine/Neurosurgery
Nancy Dennis, PhD	Liberal Arts/Psychology
Anna Engels, PhD	Liberal Arts/Psychology
Paul Eslinger, PhD	Medicine/Neurology
Richard Gilmore, PhD	Liberal Arts/Psychology
Xuemei Huang, MD, PhD	Medicine/Neurology
Susan Lemieux, PhD	Social, Life, and Engineering Sciences Imaging Center
Mechelle Lewis, PhD	Medicine/Neurology
David Miller, PhD	Engineering/Electrical Engineering
Daniel Nguyen, MD	Medicine/Radiology
George Otto, PhD	Arts and Architecture/Architecture
Michael Wenger, PhD	Liberal Arts/Psychology