

**NIH PHS 2009-1 SBIR Contracts Topics
Opens on or about 8/8/08 – Closes 11/3/08**

Following are the research topics identified in the NIH/CDC SBIR Contract Solicitation [PHS 2009-1]:

NATIONAL INSTITUTES OF HEALTH (NIH)

NATIONAL CANCER INSTITUTE (NCI):

- Development of Molecular Pharmacodynamic Assays for Targeted Therapies
- System to Analyze and Support Biomarker R&D Strategies
- Development of Anticancer Agents
- Innovative Methods for Manufacturing Safe, Effective Cancer Therapeutics
- Biopsy Instruments and Devices that Preserve Molecular Profiles in Tumors
- Innovative Strategies to Protect Radiosensitive Organs and Structures During Radiation Therapy
- Quantitative Tissue Imaging For Clinical Diagnosis and Treatment
- High Level Programming Language to Expedite Development of User Interfaces
- Mobile Computing for Consumer-centered Cancer Prevention and Control
- Health Information Technology to Facilitate Patient-centered Communication in Cancer-related Care
- Antibody Array for Cancer Detection and Diagnosis
- Novel and Improved Methods for Detecting Epigenetic Modifications
- Development of shRNA Library Screening Technology for Cancer-Related Targets
- Nanotechnology Imaging and Sensing Platforms for Improved Diagnosis of Cancer
- Multifunctional Therapeutics Based on Nanotechnology
- Novel Antibody Epitope Mapping Technologies
- Protein Expression of Glycosylated Cancer Related Proteins
- Peptide Aptamers:
- New Tools to Capture and Study Protein Interactions in Lieu of Immunological Reagents.

NATIONAL CENTER FOR RESEARCH RESOURCES (NCRR):

- Visualizing Biomedical Research Characteristics.

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NHLBI):

- Ultrasonic Wave Transmitter, Transmission Line and Receiver for Interventional MRI
- Nanoprobes for Non-Invasive Detection of Atherosclerotic Plaques
- Development of Pathogen Inactivation Technologies for Blood Components
- Development of Cell-based Bioassays Using Induced Pluripotent Stem (iPS) Cell Lines
- Development of Novel Formulations for Iron Chelators to Treat Iron Overload in Patients on Transfusion Therapy
- Multiplexed Assay Platforms for Protein Biomarkers of Cardiovascular Disease
- Transcatheter Ablation Devices for Arrhythmia Treatment
- Developing Novel Anticoagulants and Synthetic Heparins
- Development of Gene Transfer Approaches for Correction of Genetic Blood Diseases
- Wireless Communications Systems for Magnetic Resonance Imaging (MRI) Guided Surgery.

NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM (NIAAA):

- Simple, Low-Cost, Onsite Biomarker Test Kits for Alcohol-Associated Disorders
- Biological Sample Repository for Alcohol Research
- Identification of miRNAs as Biomarkers for Alcohol-Induced Disorders.

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES:

- Clinical Sample Collection and Processing Technologies for Infectious Disease Diagnostics.

NATIONAL INSTITUTE ON DRUG ABUSE (NIDA):

- Innovative Technologies to Support Economic Research in the Drug Abuse Treatment System
- Instrument Development
- Rapid Assessment Tools of Sexual and Drug Use Risk Behaviors
- Electronic Drug Abuse Treatment Referral Systems for Physicians
- Virtual Reality Simulations to Train Caregivers/Providers
- Improvement of Reliability and Validity of Reporting of Sensitive Data
- Development of Therapeutic Agents for Substance Use Disorders
- Pharmaceutical Approaches for Development of Pharmacotherapies for Drug Addiction
- Design and Synthesis of Treatment Agents for Drug Abuse
- Repository for Substance Abuse Brain Imaging Data (SBIR/STTR)
- Web Based Cognitive/Neuropsychological Testing for Substance Abuse
- Development Of Science Education Materials Or Programs
- Screening, Characterization and Validation Assays for Protein Capture Reagents
- Tool Development for New or Improved Capture Reagents.

NATIONAL INSTITUTE OF MENTAL HEALTH (NIMH):

- Home-Based Lithium Level Testing for Bipolar Patients.

CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)

NATIONAL CENTER ON BIRTH DEFECTS AND DEVELOPMENTAL DISABILITIES (NCBDDD):

- Development of Web site with Modules for Study Participants and Fellow Researchers
- Development of a Publication Database and Information Retrieval System with Announcement Feature
- Development of Standardized Evaluation Software for Blood Disorder Public Health Surveillance Systems

- Animated Software depicting Iron Out of Balance
- Development and Evaluation of Web-based Applications Using Emerging Technologies and New Media
- Application of Gaming Technology to Communicate Health Messages and Promote Healthy Living among Persons with Disabilities
- Use of Cutting-edge Technology to Communicate with and Educate Health Care Professionals about Birth Defects, Developmental Disabilities, and Ways to Improve the Health and Wellness of Persons with Disabilities.

NATIONAL CENTER FOR CHRONIC DISEASE PREVENTION AND HEALTH PROMOTION (NCCDPHP):

- Inexpensive, portable, user-friendly calibration of aneroid and electronic blood pressure devices
- Dynamic Health Promotion Decision Making for Preconception Health and Healthcare
- Development and Evaluation of a Quality and Affordable Electric-Assist Bicycle for Commuting.

IMMUNIZATION SAFETY OFFICE (ISO):

- Novel or Enhanced Technology for Vaccination Delivery and Immunization Programs.

This is the unofficial version from Zyn System's SBIR Gateway www.zyn.com/sbir The official announcement can be found at:
https://www.fbo.gov/?s=opportunity&mode=form&id=ce2cb8910df868323d2c08d9ab66fe65&tab=core&_cview=0