CTSA PROGRAM
POSTER SESSION

Poster Abstract Booklet

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Albert Einstein College of Medicine
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**Title:** Career Development for Learning Health Systems (LHS) Researchers: a new K12 program at Montefiore/Einstein
**Abstract:** A new K12 program was recently established in the Bronx at the Montefiore Health System and the Albert Einstein College of Medicine: EXPLORE (Center of Excellence in Promoting LHS Operations and Research at Einstein/Montefiore). Supported by AHRQ/PCORI and in collaboration with our CTSA, it differs from the KL2: rather than supporting investigator-initiated hypothesis-driven research, its Scholars will develop skills to conduct stakeholder-engaged, action-oriented research to improve health.

Case Western Reserve University
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**Title:** Enhancing the Translational Research Workforce
**Abstract:** The Case Western Reserve University (CWRU) CTSA has established several new programs to support entrepreneurs and innovators to fill the gaps in the translational research workforce pipeline. The CWRU Venture Mentor Program provides expert industry mentorship to young entrepreneurs through teams of advisors. EnRICH serves the graduate student population, providing internship opportunities at all levels across industries and academics. Other entrepreneurship training opportunities such as I-Corps and C3i augment these programs.

Columbia University
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**Title:** Integrating Special Populations (ISP) at the Columbia University CTSA Program Hub
**Abstract:** The ISP supports collaborative innovative clinical research across the lifespan in four domains: HIV, geriatric, pediatric and rare diseases. It focuses on increasing pediatric presence of adult diseases (e.g., T2D) and child-to-adulthood transitions of patients with diseases no longer fatal in childhood (e.g., cystic fibrosis (CF)). The ISP sponsors 6-10 seminars and four, 40K pilot awards annually. In an exemplary pilot, a multidisciplinary investigator team found decreased PTEN in human CF cells resulting in hyper-inflammatory responses and suggesting novel CF therapies.
Title: Sister services provide support to researchers: myRESEARCHnavigators and myRESEARCHhome  
Abstract: Navigating the research environment and being aware of available resources at a large academic institution can be daunting for research faculty, staff and trainees. In response to this, Duke instituted two new programs delivered by the myRESEARCHnavigators team (Researcher Onboarding and a Navigation Hotline Service) and developed and launched a researcher portal, myRESEARCHhome. These resources, which are co-funded by the CTSA, our School of Medicine, and the University, will be described in detail. The use and satisfaction with services will be described, as will adoption by the research community.

Title: A Participatory Approach to Strategic Planning within a Multi-institutional Clinical and Translational Science Hub: The Georgia CTSA  
Abstract: Many CTSA hubs, in order to increase their collaborative reach and impact, have sought to add community and institutional partners. The Georgia Clinical & Translational Science Alliance recently added the University of Georgia to their partnership of Emory University, Morehouse School of Medicine, and the Georgia Institute of Technology. This project describes the evolution of this hub's program-wide strategic planning process, with the intention to promote representation and collaboration, and provide lessons learned for those looking to replicate these activities.

Title: Georgetown Howard Universities Center for Clinical and Translational Science (GHUCCTS): Discovery through Diversity  
Abstract: GHUCCTS features co-leadership of a Jesuit and Historically Black University with dual PIs; involvement of a health network, VAMC, National Laboratory, and an adapted governance structure. Challenges include navigating institutional policies, subcontracts, decision making, and weighing considerations of diversity. As a "small hub" we were severely challenged by a 39% budget cut. We have achieved - multiple multi-institutional, multi-disciplinary projects; a diverse community of scholar/trainees; high minority recruitment; frequent cross-institutional mentorship.
Indiana University School of Medicine
Principal Investigator Name: Anantha Shekhar & Scott Denne
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Title: KL2 Visiting Scholars Program
Abstract: The purpose of the KL2 Visiting Scholars program is to provide collaborative cross-CTSA training for KL2 scholars, support KL2 scholar career development through experiential training as visiting scholars, and promote collaborative research by choosing KL2 scholars to participate in the visiting scholars program based, in part, on clinical and translational research activities that are effectively integrated with the academic strengths of the host CTSA institution. Collaborating partners are the University of Kentucky, Indiana University, and the University of Cincinnati.

Johns Hopkins University
Principal Investigator Name: Daniel Ford
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Title: Advancing patient portal messaging for research participant recruitment
Abstract: Patient portal messaging (PPM) through electronic medical records (EMR) is a recruitment strategy that capitalizes on existing data. Our PPM recruitment service through partnership with data analysts and expert researchers provides secure access to target populations. During initial evaluation, the average response and recruitment rates from PPM were 5.3% and 4.3%. Among a subsample of patients, 81% felt PPM was a good use of EMR. Based on results, PPM is a promising tool to support patient engagement and research recruitment.

Mayo Clinic
Principal Investigator Name: Sundeep Khosla & David Warner
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Title: Clinical Research Orientation
Abstract: The Clinical Research Orientation (CRC) program currently on-boards incoming study staff at Mayo Clinic enterprise-wide. Topics cover the lifecycle of a clinical research protocol. The program goal is to support first time quality in study staff work. Clinical Research (CR) orientation is open to all Mayo Clinic research units and offered every six weeks. Priority is given to new clinical research staff who have been in the role for 3 months or less. Orientation is held on-site in Rochester. Offsite participation is available via audio/visual conference for Florida, Arizona, and Mayo Clinic Health Systems with off-site facilitators to help expedite student engagement and provide site-specific support.
Medical University of South Carolina
Principal Investigator Name: Kathleen Brady
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Title: Regulatory Support Improves Subsequent IRB Approval Rates in Studies Initially Deemed Not Ready for Review: A CTSA Experience
Abstract: We evaluated the impact of the Regulatory Knowledge and Support Program (RKS) at the Medical University of South Carolina (MUSC) on the success of IRB applications that have previously been deemed by the local Institutional Review Board (IRB) to be Not Ready for Review (NRR). Providing regulatory support is associated with improved IRB approval success rates and prevention of unnecessary submissions that are not considered research projects.

New York University School of Medicine
Principal Investigator Name: Bruce Cronstein & Judith Hochman
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Title: NYU CTSI Innovative Hub Projects
Abstract: The NYU CTSI innovative hub projects include: (1) Strategic Teamwork for Effective Practice Mentor Development Program (STEP-MDP) - a set of 3 experiential workshops to train research staff in team communication, mentoring, and identifying problem areas in team functioning, and (2) Principle INvestigator Development And Resources (PINDAR) - a one-day workshop to support the GCP training of PIs, especially those new to research leadership, new to the institution, in need of remediation, or interested in improving GCP skills.

Ohio State University
Principal Investigator Name: Rebecca Jackson
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Title: The Business of Science: Creating and Supporting Team Effectiveness
Abstract: To meet the goal of translating discovery to improved health, we require a pool of highly trained research team members. We hypothesized that the skills to sustain highly functioning scientific teams can be learned and will lead to increased team effectiveness. In 2014, the OSU-CCTS collaborated with the Fisher College of Business to create a 3-day workshop focused on leading high performance teams, data-driven decision making, innovation, design thinking, and leadership effectiveness. Over 90% of attendees have reported success in using the learned skills in managing teams.
Oregon Health & Science University

Principal Investigator Name: David Ellison & Cynthia Morris
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Title: Enhancing research workforce diversity pathway: linking undergraduates with early career researchers

Abstract: BUILD EXITO is an NIH-funded undergraduate research training program that supports under-represented and disadvantaged undergraduates to become scientific researchers. Our model pairs an undergraduate institution without a tradition of research (Portland State University) with the CTSA at a research-intensive institution (OCTRI at OHSU). The mission is accomplished through enhancing institutional development, research enrichment, and student support.

Rockefeller University

Principal Investigator Name: Barry Coller
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Title: Development of a Leadership Assessment Scale in Translational Science

Abstract: While there is universal recognition of the importance of team science and team leadership in clinical and translational science, there is a remarkable dearth of valid and reliable outcome measures on leadership. As a result, we have developed a semi-quantitative translational science-specific team leadership competency assessment tool and have begun pilot studies to validate it and use it to assess the impact of personalized feedback on the team science leadership skills of KL2 Clinical Scholars. After testing and refinement, we will make the tool available to the CTSA community.

Scripps Research Institute

Principal Investigator Name: Eric Topol
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Title: A Digital Reach for Improving Clinical Trial Engagement of People Living in Rural Communities.

Abstract: 60 million Americans live in rural areas but are underrepresented in clinical trials. We have conducted 2 nationwide, entirely digital trials that eliminate geographic barriers to participation. The mSToPS RCT (n=1738) and the PowerMom program (n=2058) enrolled 11.1% and 15.2% of their participants from rural areas. The high uptake of internet use in rural population and the increasing availability of connected sensors can be leveraged in the efforts to make clinical research more inclusive.
University of Alabama at Birmingham
Principal Investigator Name: Robert Kimberly
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Title: CCTS Partner Network: Innovation and Impact
Abstract: To accelerate the translation of discovery to improved health in a region disproportionately burdened by disease and health inequity, the Center for Clinical and Translational Science (CCTS) enhances research capacity, fosters transdisciplinary investigation, grows a skilled and knowledgeable translational workforce, engages communities in all stages of the scientific process and develops innovative approaches to major health and health care delivery challenges. To do so, the CCTS embraces a strategy of partnership and synergy locally, regionally and nationally.

University of Arkansas for Medical Sciences
Principal Investigator Name: Laura James, Cornelia Beck & Curtis Lowery
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Title: Building capacity for community engagement and participation in research
Abstract: The Community Scientist Academy (CSA) is a training program that educates and engages community members in research. Community members are introduced to the research processes and how their participation influences health care outcomes. In addition to participating in research, graduates serve on steering committees, mentoring committees, review committees, research projects and in other leadership capacities within TRI. A publication and toolkit on how to establish a CSA are available on our website at https://tri.uams.edu/

University of California Los Angeles
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Title: A Platform for Searching Clinical Documents, Images, and Genomics to Enhance AI/ML Development
Abstract: Authors: William Hsu, PhD; Bing Zhu, PhD; Alex Bui, PhD   The UCLA CTSI is developing a cloud-based Translational Informatics Platform (TIP), providing a foundation for collective research involving: the breadth of the electronic health record (EHR), including free-text clinical notes; imaging and subsequent analyses; and genetics and genomic information. Several factors hinder researchers’ ability to use such data to train and evaluate machine learning models. TIP provides a framework for researchers to define dynamic pipelines for processing clinical data alongside a user interface for cohort discovery involving complex relational and temporal queries.
Title: UCSF Clinical and Translational Science Institute: Supporting innovation that impacts science, clinical care and our communities
Abstract: UCSF CTSI's Pre-Health Undergraduate Program prepares underrepresented students for research careers, while our Catalyst Program, a translational accelerator, advances discoveries such as groundbreaking pre-natal surgery. The CTSI-supported Sugary Drinks Initiative illustrates how community engagement, clinical research and team science can lead to promising outcomes and evidence-informed policy.

Title: CCTST Innovations in Clinical and Translational Science: Community Leaders Institute & Integration Committee
Abstract: The Center for Clinical and Translational Science and Training (CCTST) has developed many innovative programs to accelerate and enhance research in academic and community settings, including the (1) Community Leaders Institute, an 8-session training program that builds translational research capacity among local organizations through didactic, hands-on, and project-based activities; and (2) Integration Committee, which helps junior faculty formulate strategies to improve their research, overcome environmental challenges, and build collaborations.

Title: A Framework for Precision Health: Fostering Data Science, Learning Health Systems and Learning Health Communities to Develop Integrative Models of Precision Medicine and Precision Public Health
Abstract: The UF CTSI aligned resources to advance precision medicine and precision public health in the nation's third largest state: informatics, data science, community engagement and implementation science infrastructure; a Personalized Medicine Program that developed learning health system capacity for clinical pharmacogenomics and improved outcomes; and the OneFlorida Clinical Research Consortium's practice-based research network and data trust, with geospatial, EHR and claims data for 14M patients.
University of Illinois at Chicago
Principal Investigator Name: Robin Mermelstein & Larry Tobacman
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Title: Addressing Root Causes of Health Disparities: Aligning Chicago’s Health Atlas with UI Health Electronic Medical Records
Abstract: CCTS and the Chicago Department of Public Health are collaborating to accelerate research on Chicago public health priorities. Through a series of workshops and ongoing consultation, researchers will be introduced to the Chicago Health Atlas (www.chicagohealthatlas.org) and UI Health data warehouse to encourage new research on root causes of health disparities. An initial project on child mental health disparities will be presented to illustrate implications for health policy and practice.

University of Iowa
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Title: Research IT Maturity Models: Tools for understanding AHC investment in informatics and information technology
Abstract: Maturity Models have been shown to be effective tools in guiding organizational development for process improvement in a range of technology and business management areas. This poster outlines pilot work done in developing maturity models for Research IT and Informatics at Academic Health Centers (AHCs) to enhance understanding of investments in these important infrastructures. The pilot work includes tools to measure maturity created through engagements with informatics and IT leaders from multiple AHCs and outlines future developments specific to CTSA informatics.

University of Kansas Medical Center
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Title: Partnering to Accelerate Research in Rare Disease: A Multimodal Approach
Abstract: Frontiers works to respond to community-identified health, healthcare and research priorities. Effective engagement to support vulnerable and often overlooked research participants or constituencies requires trust-building and efficient use of cores and resources. Frontiers partnered with local families, organizations, health care systems and affiliated institutions to achieve a vibrant and growing nonprofit called Rare KC. This example provides a template for future community-driven efforts that support and accelerate regional clinical and translational research.
University of Massachusetts Medical School, Worcester
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Title: Advancing Medical Device and Biotech Innovations
Abstract: M2D2 is a UMass Lowell - UMass Medical School initiative that helps entrepreneurs move new biomedical ideas into the clinic, by facilitating interactions between clinicians and entrepreneurs and providing affordable and coordinated access to product development resources. Unique features include incubator models that allow entry at different stages of company maturity, a Big Company-Little Company mentorship model, an Innovation Challenge with the UMass clinical system, and multiple workforce development opportunities.

University of Miami
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Title: Developing Scientific Methods and Promoting Stakeholder Research Competencies to Culturalize Health Science at the Miami CTSA
Abstract: The Miami CTSA adapts its research to assure cultural congruence in a highly diverse population of 6.1M. Our poster showcases two examples, at opposite ends of the translational spectrum, of how we do this: 1) building sophisticated scientific tools to use cancer genomic profiles to model the inherent complexity of race, ethnicity, and culture in research outcomes, and 2) advancing innovations to engage diverse stakeholders through PCORI funded community health worker research training.

University of Michigan at Ann Arbor
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Title: Software tools available and ready to support your research enterprise: EMERSE and [your]HealthResearch
Abstract: The University of Michigan is offering mature software for use at other CTSA sites. EMERSE is a self-service tool to enable discovery within the free text documents from medical records. EMERSE can be used for identifying cohorts, study eligibility, and data abstraction. [your]HealthResearch is an online, local research volunteer registry that enables participant enrollment and retention. It has sophisticated matching technology to connect potential subjects with relevant studies. More information about [your]HealthResearch can be found at https://yourhealthresearch.org
Title: University of Minnesota CTSI Best Practices Integrated Informatics Core (BPIC)
Abstract: The University of Minnesota's Best Practices Integrated Informatics Core (BPIC) provides one-stop informatics consulting in support of the University's Clinical Translational Science Institute (CTSI). BPIC provides a full suite of biomedical informatics services and programs that can be readily and easily used by researchers including: a fully integrated clinical, genomics, biospecimen and dental research data warehouse (RDW); a secure data research and analytics environment (Data Shelter); and cohort identification. BPIC provides support for project feasibility assessment; data extraction into custom data marts and research analytics support. This poster will detail how these best practices and infrastructure enable the support of 1,000 users, 825 data consultations and 525 data marts.

Title: CAMP FHIR: Clinical Asset Mapping Program for FHIR
Abstract: CAMP FHIR (Clinical Asset Mapping Program for FHIR) is an application developed by NC TraCS to convert clinical data stored in the i2b2 or PCORnet data models to FHIR. We propose that FHIR can be used as a "meta-CDM" when institutions wish to share EHR data but do not use the same common data models. Our goal is to freely share this pipeline with other CTSA hubs, in addition to community hospitals that may wish to engage in data-driven research without a sizable informatics investment.

Title: The University of Rochester Clinical and Translational Science Institute
Abstract: The Clinical and Translational Science Institute is the research engine of the University of Rochester Medical Center. We identify promising research, support its development, and accelerate the translation of discovery to clinical therapy. We highlight four highly successful programs: 1) Open-data mapping of community health, 2) Research Methods Forum for team science, 3) Expanding the TL1 program to increase diversity and 4) the Bio-Lab Informatics Server (BLIS) for managing, integrating, visualizing and analyzing research data across the translational research spectrum.
Title: Addressing Health Disparities through the Use of Community-Embedded Research Ambassadors to Diversify Clinical Research Participation

Abstract: Two education initiatives at our hub strive to increase capacity among key members of the clinical research community. 1) We applied an implementation science framework to develop an online training module on clinical trial monitoring for clinical research professionals. 2) In our Research Ambassador Program, promotoras de salud deliver workshops within local Latino communities that address common misperceptions and barriers to research participation. Respectively, findings revealed a need for the monitoring module and a higher likelihood of trial participation.

Title: Innovations in Team Science

Abstract: Since 2007, the Institute for Translational Science has developed and supported Multidisciplinary Translational Teams (MTTs) to train a diverse workforce, engage stakeholders, and advance clinical and translational research. Working with our partners, we have implemented, tested, and disseminated programs designed to build capacity for conducting high quality, efficient team science. Here we present a suite of related initiatives undertaken from 2014 to present.

Title: Translational Research Innovation: From Bench and Bedside, Innovations Supporting Scientific Discovery and Research Delivery.

Abstract: CTSA hubs must have a clinical and translational research pipeline which supports all activities from research feasibility to participant delivery of translational discovery. Here we provide two exemplars of these innovations in progress at Utah, which can benefit the CTSA Consortium. 1) Investigating human genetic disorders using induced pluripotent stem cells & gene editing technologies. 2) A low-cost system for tracking all CSC research nursing activities on an hourly basis without significantly impacting the operational workflow.
Virginia Commonwealth University
Principal Investigator Name: F. Gerard Moeller
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Title: Virginia Opioid Overdose Informatics Network
Abstract: Virginia has an opioid overdose (OOD) epidemic, with over 1,300 patients dying from OOD in 2017. This parallels the opioid epidemic nationwide (49,000 OOD deaths in the US in 2017). Identifying OOD patients from ICD-10 codes under-represents the problem. Our informatics team has developed natural language processing (NLP) methods to identify patients seen in the Emergency Department after OOD for utilization at four academic healthcare systems across the Commonwealth of Virginia.

Washington University
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Title: New Tools for Dissemination and Implementation of Research Findings, and for Measuring the Benefits of Translational Research
Abstract: Translation of discoveries to improve health requires dissemination and implementation of research findings to influence practice, though few researchers have formal training in D&I. Measuring the eventual impact of research on health requires assessment strategies beyond bibliometrics to measure and communicate the benefits of clinical and translational science. We describe new sharable tools to aid the design and conduct of D&I research, and the measurement of downstream benefits of research.

Weill Cornell Medical College
Principal Investigator Name: Julianne Imperato-McGinley & Fernando Martinez
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Title: Supporting CTSA Operations to Outcomes: WebCAMP Administrative Software
Abstract: WebCAMP is a mature, versatile software system supporting operations and outcomes tracking at many CTSA. It addresses multiple CTSA workflows including application and review (eg, for pilot awards and education), resource requests, event/course registration, participant scheduling, utilization and regulatory tracking, investigator surveys and outcomes reporting. The software is tailored to CTSA, customizable, supported by the Weill Cornell CTSC and continually enhanced to meet changing needs.
Center for Leading Innovation & Collaboration (CLIC)

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**Title:** CLIC: Fostering Collaboration and Improving Communication  
**Abstract:** As the CTSA Program Coordinating Center, CLIC facilitates bi-directional communications within, and collaboration across the Consortium. CLIC distributed Common Metrics Reports to all hubs, providing for the first time Consortium-wide insight into aggregated metric data. Through CLIC Un-Meeting and Synergy Paper RFAs, we are facilitating cross-hub and cross-translation stage approaches to addressing prominent translational science issues. To enhance the voice of the consortium we developed the CLIC Forum, providing an interactive space where CTSA Program researchers and educators can collaborate in near real time. CLICs Social Media outreach amplifies innovative hub activities, and the CLIC Suggestion Box provides a channel through which CTSA Program members can voice their opinions and drive discussion topics to CTSA Program leadership.

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Trial Innovation Network

**Principal Investigator Name:** Gordon Bernard  
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**Title:** Trial Innovation Network - Accomplishments to Date  
**Abstract:** The Trial Innovation Network (TIN) is a collaborative initiative with the CTSA Program and other NIH Institutes and Centers (ICs) that addresses critical roadblocks to accelerate the translation of novel interventions to clinical practice. The TIN's mission is to execute high quality trials in a quick, cost-efficient manner. Three Trial Innovation Centers (TICs), the Recruitment Innovation Center (RIC), and the individual CTSA institutions comprise the TIN. The TIN has launched a national scale single (central) IRB system, master contracting agreements, quality-by-design approaches, novel recruitment support methods, and applies evidence-based strategies to recruitment and patient engagement. The TIN has received 145 submissions from 45 different CTSA institutions and 8 non-CTSA Institutions, with projects associated with 13 different NIH ICs across a wide range of clinical/disease areas. Already more than 150 unique health systems/organizations are involved as sites in TIN related multisite studies. The TIN is capturing data and metrics that quantify its use, and has developed a framework to evaluate its ability to improve the efficiency and quality of clinical trials and clinical research."
ADDENDUM

Penn State Clinical and Translational Science Institute
Principal Investigator Name: Lawrence Sinoway
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Title: Translation of Despair and Healthcare
Abstract: In recent years, epidemiologists have identified the public health phenomenon of “deaths of despair” - increases in mortality among white non-Hispanic Americans linked to suicide, accidental poisoning, liver disease, diabetes, and heart disease with prevalence in small towns and rural America. Through a collaborative approach partnering informatics, education and community-engaged research cores, Penn State Clinical and Translational Science Institute plans to identify a mixed methods approach to “hot spots” in order to develop community-engaged solutions to learn about and address diseases of despair.