

UF

Clinical and Translational
Science Institute

UNIVERSITY *of* FLORIDA



ABOUT



RESEARCH



EDUCATION



COLLABORATION



COMMUNITY



ABOUT THE CTSI

- In 2008, the CTSI was founded to speed the translation of scientific discoveries into improved health by strengthening the university's ability to conduct clinical and translational research.
- To accomplish this, the CTSI acts as a catalytic hub connecting people, resources and ideas across UF's 16 colleges, the state, and the national Clinical and Translational Science Award (CTSA) consortium.
- In addition, the CTSI provides special programs, services and a multitude resources designed to facilitate health research, helping to translate research into real-world impact.

Director: Duane Mitchell, MD, PhD

Co-Director: Elizabeth Shenkman, PhD





COLLABORATIONS: UF-FSU CTSA HUB

- In 2015, the CTSI began its official partnership Florida State University, creating the UF-FSU CTSA hub. This expanded collaboration allows for greater community-based research.
- FSU has invested in research centers and faculty conducting translational research in mental health, substance abuse, risky behaviors, and health conditions that have the potential to be treated with behavioral interventions.
- Together, both universities will continue to advance clinical and translational research with the goal of improving health outcomes for all, including underserved, minority, rural and elderly populations.

FSU Site PI: Jeffrey Joyce, PhD





GETTING STARTED: RESEARCH

Looking to conduct clinical and translational research at UF?

The CTSI offers support for every step of the research process through its Service Center. The Service Center's programs, resources and core facilities can assist with:

DESIGNING A STUDY

RECRUITING PARTICIPANTS

EXECUTING RESEARCH

MANAGING DATA AND SOFTWARE

NAVIGATING REGULATIONS

USING TRANSLATIONAL TECHNOLOGIES

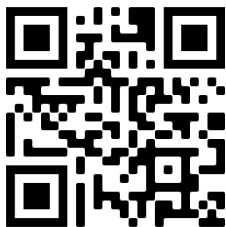


SERVICE SPOTLIGHT: CLINICAL RESEARCH CENTER

Need access to facilities, staff and equipment for your study?

- The CTSI's Clinical Research Center has highly experienced staff and research support personnel and an outpatient research facility as well as a variety of laboratory services and equipment.
- Initial consultations for all services are offered at no cost.

Learn more about the variety of resources available through the CRC:





GETTING STARTED: RESEARCH

Getting Started with CRC Support

The first step to getting access to resources from the CTSI and its CRC is to schedule a no-cost consultation. During this consultation, CRC administrators will:

REVIEW THE PROJECT

**CONNECT TO RESOURCES, SERVICES AND
POTENTIAL COLLABORATORS**

ASSESS RESEARCH NEEDS

**ASSIST WITH RESOURCE AND REGULATORY
NAVIGATION**

DISCUSS AVAILABLE OPTIONS

PROVIDE LETTERS OF SUPPORT



DESIGN A STUDY: THE RESEARCH DESIGN & DATA COORDINATING CENTER

The mission of the RDDC is to advance biomedical research by providing innovative research design, high quality data management, state-of-the-art data analysis, and advanced data privacy technologies. Services include:



STUDY DESIGN & GRANT PROPOSAL DEVELOPMENT

The RDDC helps researchers refine objectives into testable hypotheses, choose study designs, develop data analysis plans, and perform power analyses and sample size calculations.



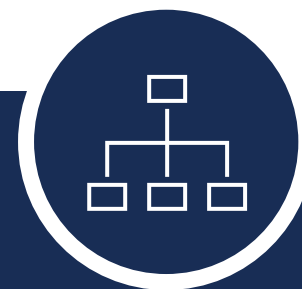
STATISTICAL DATA ANALYSIS

The RDDC offers consulting services for clinical and translational studies including statistical data analysis, results interpretation, and dissemination of findings.



QUALITATIVE RESEARCH COLLABORATION

The RDDC facilitates collaboration with qualitative experts and offer consultation on qualitative study design, data collection, and analysis.



DATA MANAGEMENT

The RDDC offers technical expertise, secure infrastructure and compliance controls to help researchers manage their study data.

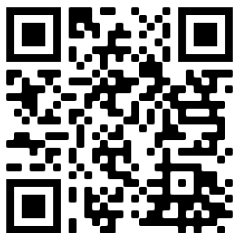


CORE SPOTLIGHT: SYSTEMATIC REVIEW CORE

Jumpstart your research with the CTSI Systematic Review Core, a collaborative effort with the Health Science Center Libraries.

- The core provides researchers with tools and resources designed to help conduct systematic reviews for a wide variety of subjects.
- Systematic reviews help identify and analyze existing knowledge on a narrow, specific research question to provide as much generalizable evidence as possible.
- Researchers of all disciplines can schedule a no-cost two-hour consultation to get started.

Learn more and schedule a consultation:



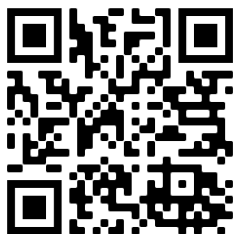


DESIGN A STUDY: CITIZEN SCIENTIST PROGRAM

Citizen Scientists are members of the community who serve as research consultants. They provide valuable feedback for research materials intended to engage the community. For example, they might...

- Help researchers review recruitment materials, such as flyers, forms and messages.
- Weigh in on the best way to get the word out to the public about research findings.
- Assist with presentations or participate more extensively as a member of the study team, workgroup or committee.

Learn more and schedule a consultation:



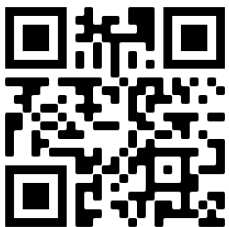


CORE SPOTLIGHT: DISSEMINATION & IMPLEMENTATION SCIENCE CORE

The Dissemination and Implementation (D&I) Science core consults with investigators across the academic health center to improve research and evaluation of evidence-based health interventions.

- D&I research focuses on translating evidence-based interventions into real-world settings.
- D&I methodology experts can assist with all phases of research from study design and conceptual frameworks development to implementation strategies and measurement.
- The core also provides training and educational opportunities to learners, faculty and staff.

Learn more and schedule a consultation:





NAVIGATE REGULATIONS

The CTSI offers a variety of services and resources designed to help research teams navigate the UF research landscape and the regulatory and compliance environment. These include:



IND, IDE ASSISTANCE

Receive guidance on Investigative New Drug (IND) and Investigational Device Exemption (IDE) applications.



REGULATORY ASSISTANCE

Consultation, auditing, Standard Operating Procedure development, batch releases and training to ensure good clinical, laboratory and manufacturing practices.



RESEARCH PARTICIPANT ADVOCATE, ETHICS CONSULTATION

Receive guidance on regulatory submissions, informed consent, IRB submissions and ClinicalTrials.gov registration and compliance



QUALITY ASSURANCE

Consult an expert on clinical trials and Data Safety Monitoring Boards.



DATA MANAGEMENT & SOFTWARE

In addition to the data management services offered by the RDDC, the CTSI offers additional services and support for data management through infrastructure design and software assistance. These include:

CLINICAL & TRANSLATIONAL SCIENCE – INFORMATICS & TECHNOLOGY (CTS-IT)

This service helps researchers execute discovery, produce scholarly works, manage research activities.

Services include:

- General IT design and consulting
- Server and database provisioning, support and management
- Research needs analysis, proposal development and grant assistance
- IDR and other clinical data access
- And more...

REDCAP

A web-based application that facilitates data capture and management. REDCap is:

- Fast, flexible and secure
- Easy-to-use for data management
- Versatile - can be used for a variety of data
- Convenient - offers built-in scheduling for organizing events and appointments
- Secure - can remove identifying information from a data set prior to exporting



CORE SPOTLIGHT: BIOREPOSITORY

A CAP-certified biological sample storage facility that offers a range of services to help clinical and basic science investigators to conduct research in biobanking and improved patient care. Resources include:

- A biospecimen library with more than 32,000 remnant specimens collected with informed consent.
- A secure specimen storing facility equipped with multiple, independent temperature-monitoring systems.
- Comprehensive research specimen management, including electronic tracking through an OnCore biospecimen management database.

Learn more and schedule
a consultation:



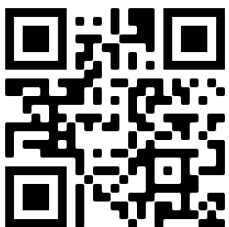


CORE SPOTLIGHT: FLORIDA RDC

The FLRDC provides a secure research environment where researchers can analyze restricted data collected by the U.S. Census Bureau and other federal statistical agencies.

- In order to access this information, researchers must draft a research proposal to be submitted to the federal agency whose data they want to access for their research.
- The information provided through the FLRDC is available to researchers from universities, government agencies, and private institutions in Florida and beyond.

Learn more and inquire about access:



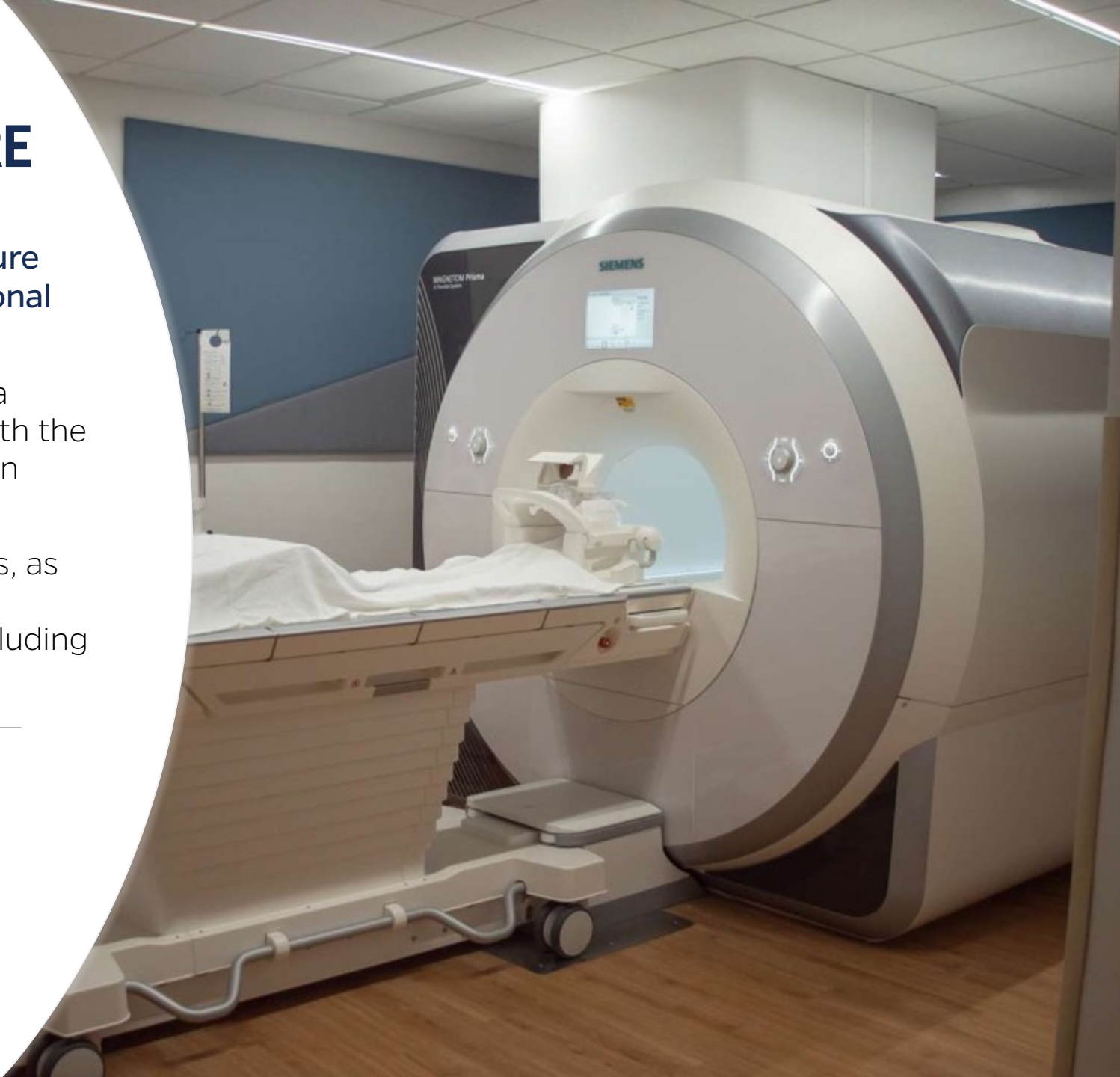
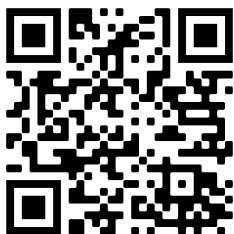


CORE SPOTLIGHT: HUMAN IMAGING CORE

The Human Imaging Core provides infrastructure and support to facilitate research and educational activities.

- The core houses two state-of-the-art 3.0 Tesla whole-body human MR scanners equipped with the latest MRI and MRS technology and acquisition techniques for human MR research.
- This resource is open to UF Health researchers, as well as researchers from outside UF through collaborations with UF Health researchers, including those in the core.

Learn more and inquire about access:





TRANSLATIONAL TECHNOLOGY CENTERS

Among CTSI's core services are partnerships with translational technology centers in the UF College of Medicine and UF Health. These centers provide resources for researchers to better understand human health at all stages of life.

CENTER FOR CELLULAR REPROGRAMMING

Initiated with the support of the UF CTSI, McKnight Brain Institute and Faculty Enhancement Opportunity awards, this center provides services, resources and trainings needed for induced Pluripotent Stem Cell (iPSC) derivation and related reprogramming technologies.

CENTER FOR SAFETY SIMULATION & ADVANCED LEARNING TECHNOLOGIES (CSSALT)

CSSALT provides clinician training and support in developing simulation proposals and studies.

CSSALT also provides education, training and services to residents, faculty, clinical personnel and staff throughout the University of Florida Academic Health Center including the UF Health Healthcare system, and beyond.

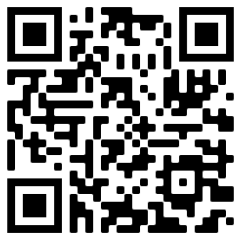


CORE SPOTLIGHT: GENOTYPING CORE

This core provides consultation and guidance to the researchers who need assistance in designing and performing genetics and pharmacogenetics studies.

- Two units comprise the CTSI Genotyping Core, the Center for Pharmacogenomics and Precision Medicine Genotyping Laboratory, and the Molecular Services Core of the ICBR.
- Across these facilities, researchers will have access to sample handling and processing services, individualized single-plex through 384-plex genotyping assays and large-scale genotyping services.

Learn more and schedule a consultation:



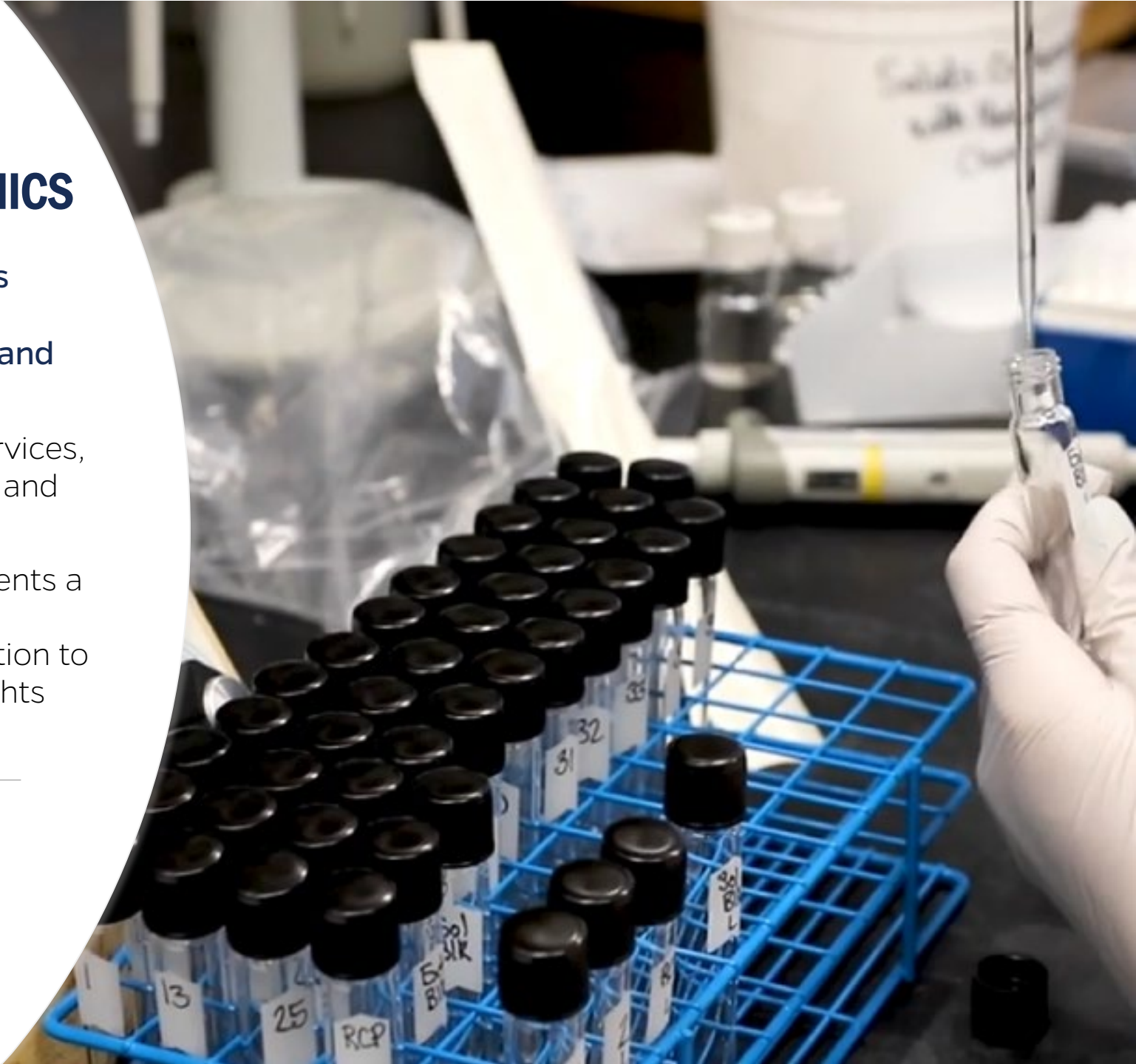
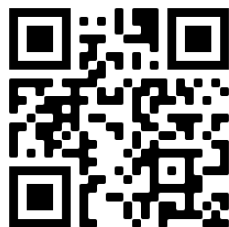


CORE SPOTLIGHT: SOUTHEAST CENTER FOR INTEGRATED METABOLOMICS

SECIM provides state-of-the-art metabolomics services to users in all areas of biomedical and biological sciences at the University of Florida and beyond.

- This core specializes in mass spectrometry services, including global metabolomics and lipidomics and targeted metabolomics.
- SECIM offers scientists, researchers, and students a unique combination of technology, expertise, extensive sample libraries, training and education to spur advances in the field and glean new insights into important biological problems.

Learn more and request services:





CORE SPOTLIGHT: TRANSLATIONAL DRUG DEVELOPMENT CORE

The TDDC provides services and expertise in bioanalysis, drug metabolism, and preclinical pharmacokinetics to help researchers move their compounds from the lab to preclinical studies. Services include...

- Consultation regarding testing, collaboration, and licensing submission.
- Laboratory services to assist in advancing a lead compound based on in vitro data, to transition to full blown preclinical studies.
- Bioanalytical services to define the full in vivo pharmacokinetic profile (Absorption, Distribution, Metabolism, and Excretion-ADME) of a compound.

Learn more and
schedule a consultation:





PARTICIPANT RECRUITMENT RESOURCES

The CTSI offers a variety of services and resources designed to help research teams recruit participants for research. These include:



CTSI RECRUITMENT CENTER

The Recruitment Center helps researchers develop recruitment strategies, create recruitment materials and evaluate recruitment methods.



HEALTHSTREET

HealthStreet helps researchers recruit participants from the community, including underrepresented populations to help reduce disparities in healthcare and clinical research.



INTEGRATED DATA REPOSITORY

The IDR provides access clinical data for cohort identification and recruiting, and to answer research questions.



TRIAL INNOVATION NETWORK

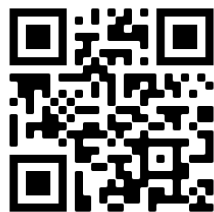
This collaborative initiative helps researchers address critical roadblocks in clinical research and accelerate the translation of novel interventions into life-saving therapies.



ONEFLORIDA+

- OneFlorida+ is a clinical research network and database that helps researchers implement grant-funded research in real-world settings.
- OneFlorida+ is home to a data trust. This trust contains data on diagnoses, procedures, medications, patient demographics, unique patient codes for re-identification by network partners, and other data elements.
- Scientists and clinicians across the Southeast rely on the OneFlorida+ Data Trust to support a variety of research activities, including hypothesis generation, cohort discovery, prep-to-research activities, participant enrollment, observational studies, and more.

**Learn more about
OneFlorida+:**





EDUCATION

Learning Opportunities at the CTSI

*The CTSI provides educational opportunities that facilitate the training of clinical and basic science investigators, clinical trialists, laboratory technicians, study coordinators and other related personnel.
Educational opportunities include:*

CAREER TRAINING & CERTIFICATIONS

MENTORSHIP

GRANT-WRITING WORKSHOPS & TOOLKITS

DIVERSITY, EQUITY & INCLUSION TRAINING



CAREER DEVELOPMENT FOR STUDENTS

The CTSI provides graduate students with translational science education opportunities through some of the following certificates, grants and degree programs:



TL1 TRAINING GRANT

The CTSI TL1 Predoctoral Training Program provides predoctoral trainees with the skills required to develop a career in multidisciplinary clinical and translational research.



CLINICAL & TRANSLATIONAL SCIENCE (CTS) CERTIFICATE

This certificate offers MS and PhD students the opportunity to develop skills for a translational science career in a variety of areas including academia, industry, biotech and government.



CTS INTERDISCIPLINARY CONCENTRATION

This concentration uses a team-science approach, mentoring and didactic training to prepare doctoral students for a career in multidisciplinary clinical and translational research.



MD-PHD PROGRAM

A collaboration with the UF College of Medicine, the UF MD-PhD training program was established to prepare the next generation of physician scientists.



CAREER DEVELOPMENT FOR CLINICAL FELLOWS & FACULTY

The CTSI offers the following education opportunities for early-stage investigators interested in clinical and translational research:



K COLLEGE

K-College is a monthly luncheon seminar series that provides support, opportunities and resources for career development in clinical and translational research.



KL2 TRAINING GRANT

The KL2 Career Development Award provides junior faculty with financial support and research training to develop the skills necessary to build a well-funded, collaborative career in clinical and translational research.



TRAINING AND RESEARCH ACADEMY FOR CLINICAL AND TRANSLATIONAL SCIENCE

TRACTS is a training program for early career faculty who have an interest in pursuing clinical/translational research as a major component of their careers.



MENTOR ACADEMY

The CTSI Mentor Academy provides research mentors with opportunities to develop mentoring skills through biweekly sessions during a four-month program.

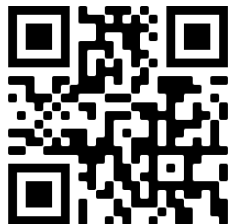


RESOURCE SPOTLIGHT: KL2 CAREER DEVELOPMENT AWARDS

The KL2 Career Development Award provides junior faculty with financial support and research training to develop the skills necessary to build a well-funded, collaborative career in clinical and translational research.

- Qualified faculty at the rank of assistant professor with an MD, PhD, or equivalent degree in the health sciences and who are U.S. Citizens or have Permanent Resident status are encouraged to apply.
- The CTSI welcomes applicants from any college within UF's Academic Health Center.

Learn more about the
grant and application
process:





CAREER DEVELOPMENT FOR RESEARCH PROFESSIONALS

The CTSI offers some of the following education and involvement opportunities for clinical research professionals, research coordinators and nurses:



PROGRAMS FOR RESEARCH COORDINATORS AND PROFESSIONALS

Networking, leadership development, mentorship and training opportunities to help research coordinators navigate the profession.



CTSI CERTIFICATE OF BASIC COORDINATOR TRAINING

For those who wish to become a clinical research coordinator, including health professionals working in nursing, nutrition, respiratory therapy, occupational/ physical therapy or similar allied health fields.



CLINICAL RESEARCH PROFESSIONALS ADVISORY COUNCIL

This is an ongoing forum for networking and resource sharing within the clinical research community at UF.



RESEARCH COORDINATOR LEADERSHIP DEVELOPMENT PROGRAM

A six-month program with monthly two-hour sessions designed to develop the next generation of leaders in the field of research coordination.

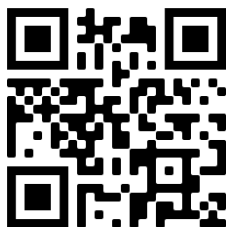


RESOURCE SPOTLIGHT: DIVERSITY AND CULTURAL COMPETENCE COUNCIL

In 2018, the UF CTSI DC3 was established to examine long-standing and unspoken issues of racism, injustice and inequity within clinical research and the research professional workforce.

- DC3 aims to help UF clinical research professionals become better advocates, allies and accomplices in the intersectional areas of diversity, equity and cultural competence through education and training.
- The Black Voices in Research storytelling series is DC3's most well-known project to-date. It spotlights the stories and experiences of Black biomedical researchers at UF.

Learn more about DC3
and view the Black
Voices in Research
storytelling series:





CORE SPOTLIGHT: UF BIOTILITY

The mission of Biotility is to provide high-quality education and training to individuals jumpstarting or advancing a career in the bioscience industry

- Biotility is the education and training arm of the UF Center of Excellence for Regenerative Health Biotechnology (CERHB).
- Programs include industry-recognized credentials, industry short-course certificates, and customized training solutions.
- Biotility creates pathways to progress and professional skill development in the industry for students, faculty and educators and research professionals.

Learn more and view
available classes:

