

## Clinical & Translational Science Resources

The CTSI's mission is to support BU's basic researchers, patient-oriented researchers, and population-based researchers working in all areas of translational research related to the prevention, diagnosis, and management of human disease.

For a full list of resources and more information about the CTSI please visit our @ <http://www.bu.edu/ctsi/>

Resource	Resource Information
<p><b>Regulatory Consultations for Protocol Development</b></p>	<p>Staff in our <a href="#">Clinical Research Resources Office (CRRO)</a> are available for one-on-one consultations or training sessions with groups of researchers to help prepare IRB applications, respond to IRB stipulations, or get help with study implementation. <a href="https://www.bu.edu/ctsi/support-for-research/regulatory/">https://www.bu.edu/ctsi/support-for-research/regulatory/</a></p>
<p><b>Research Networking (RN)</b></p> <ul style="list-style-type: none"> <li>• <a href="#">BU Profiles</a> is a software tool that supports research networking and expertise searches. It enables individuals (either internal or external to BU) to locate researchers by subject matter, name, institution, department, division, faculty, etc. This RN tool is a way to network and collaborate, find potential mentors, search for relevant panel members and advisory board expertise, evaluate research trends by investigator, and broadly surveys the community at large.</li> <li>• <a href="#">StudyFinder</a> can be used to locate research studies that are recruiting volunteers</li> </ul>	<p>A core goal for the CTSI is to use the resources and expertise of available at BU to promote the highest quality and most efficient clinical and translational research. We believe this is best achieved through a Team Science approach, where investigators with complementary and supplementary disciplines engage and interact in networks of teams. Research Networking tools connect institutional systems, broad research networks, public research data, and restricted data by collecting accessible information from a wide range of sources and then aggregate and organize the information as expertise profiles for faculty, investigators, scholars, clinicians, community partners, and facilities.</p>
<p><b>Grant writing, editing and formatting services</b></p> <ul style="list-style-type: none"> <li>• To request one or all of these services, please go <a href="#">here</a> to complete a short form</li> <li>• CTSI Leadership will review your request and respond within 3-5 business days.</li> </ul>	<p>The CTSI in collaborating with Boston Medical Center's Office of Development, Foundation Relations and Government Grants team offer the BU research community (all campuses) <b>grant writing, editing and formatting</b> services for NIH and other federal applications.</p>
<p><b>Biostatistics, Data Management &amp; Analysis</b></p> <ul style="list-style-type: none"> <li>• Monthly Biostatistics, Epidemiology &amp; Research Design Seminars (BERD)</li> <li>• Weekly Study Design and Statistical Analysis Studios</li> <li>• New areas of statistical design and analysis such as adaptive trial design and network-based analyses of cell-line data (e.g., stem cell studies using iPSC cell lines)</li> </ul>	<p>The CTSI's Biostatistics, Epidemiology &amp; Research Design (BERD) program provides researchers with comprehensive support in designing and carrying out research at the design, implementation, and analysis stages.</p>

<p><b>Protocol Implementation</b></p> <ul style="list-style-type: none"> <li>General Clinical Research Unit (GCRU) provides resources to faculty at the BUMC, including a controlled and optimal setting for clinical investigators, career development programs, and training for health professionals</li> </ul>	<p>CTSI has developed several strategies to ensure that investigators and their study teams are well-trained on regulatory and institutional requirements and good clinical practices (GCP). The CTSI offers resources to investigators in medicine and dentistry funded by various sponsors including federal, non-federal, and industry, as well as those conducting innovative clinical research pilot studies, prior to requesting funding.</p>
<p style="text-align: center;"><b>Resource</b></p>	<p style="text-align: center;"><b>Resource Information</b></p>
<p><b>Research Recruitment &amp; Retention Core-R<sup>3</sup></b></p> <ul style="list-style-type: none"> <li>Serves as a technical resource for investigators on recruitment and retention</li> <li>Serves as a liaison with sources of referral of potential study participants, including departments within BMC, Boston HealthNet, and throughout the community</li> </ul>	<p>The R<sup>3</sup> Core is a shared resource for recruitment and retention, as well as informational resource for the medical and general communities about translational research at BU.</p>
<p><b>Clinical Research Informatics and Technology Consultations (CRITC)</b>-Examples of assistance provided by CRITC:</p> <ul style="list-style-type: none"> <li>Chronic disease registry for research</li> <li>Development of chronic disease registries for research</li> <li>Patient education kiosk for patients in a clinic waiting room</li> <li>Project to create and study of a mobile application to improve care</li> <li>Project to create and study of a bedside clinical technology</li> </ul>	<p>The CTSI offers consultations through the Clinical Research Informatics and Technology Consultation (CRITC) Service to help researchers identify, develop, and implement the effective and efficient use of information technology and informatics in their clinical studies. Contact Christopher Shanahan, MD, MPH @ <a href="mailto:christopher.shanahan@bmc.org">christopher.shanahan@bmc.org</a> or <a href="mailto:cshanahan@bu.edu">cshanahan@bu.edu</a></p>
<p><b>Research Tools-</b> Examples of the tools available include:</p> <ul style="list-style-type: none"> <li><b>REDCap</b> (Research Electronic Data Capture)- a secure web-based application for building and managing online surveys and databases for research. Using REDCap's streamlined process for rapidly developing projects, users can create and design projects applying: <ol style="list-style-type: none"> <li>the online method from your web browser via the Online Designer; and/or</li> <li>the offline method by constructing a "data dictionary" template file in Microsoft Excel, which can be later uploaded into REDCap.</li> </ol> </li> <li><b>The BU i2b2</b> (Informatics for Integrating Biology and the Bedside) provides a standardized data architecture and informatics capabilities to combine clinical patient data with demographic, biologic, and genomic data for use in clinical research projects. An easy-to-use aggregate data query tool, i2b is accessible via the internet using the i2b2 web client</li> <li><b>openSESAME</b> (Search of Expression Signatures Across Many Experiments) is a web-based tool for using patterns of gene expression to discover relationships between experimental</li> </ul>	<p>The CTSI provides researchers with a wide range of tools that provide support to the BU research community. For a full list of tools and more information please click <a href="#">here</a>.</p>

conditions, diseases, or biological states. openSESAME is unique in that it identifies connections between datasets based on expression patterns alone, without the need for prior knowledge of experimental groups or phenotypes