Site	Award Year	Number of Imaging Cores Associated with CTSA	Services provided by imaging cores	Imaging specific aims written into CTSA application	Does CTSA provide funding for support of imaging core?	Amount of support of imaging core by CTSA	Administrative structure for imaging core	Do users of your services have to pay?	Future plans, goals, or priorities for CTSA associated imaging program
Boston University **Contact:** C. Carl Jaffe, MD **Pi:** David M. Center, MD	**2008**			No	No	N/A			
Duke University **Contact:** Daniel Sullivan, MD **Pi:** Robert Califf, MD	**2006**	Yes - Formal		Yes - limited	Yes	Supports Duke Image Analysis Lab. Also supports an imaging Project Leader			
Emory University **Contact:** Carolyn Meltzer, MD, FACR **Pi:** David S. Stephens, MD	**2007**	Yes - Informal		Yes - significant	Yes	Educational support programs and support for seed grants			
Johns Hopkins University **Contact:** Katarzyna Macura, MD, PhD **Pi:** Daniel E. Ford, MD, MPH **Website:** http://www.hopkinsradiology.org/CISTeR/Index.html	**2007**	Yes - Office for Imaging Support in Translational Research CISTeR	Imaging Expert Consultation for project design and implementation. Development of Imaging Protocols – modality specific. Facilitating access to imaging resources. Assistance with protocol preparation for IRB. Facilitating Inter-Departmental and Outside Collaborations	Specific Aims: 1. Provide a framework for identification and assessment of radiological imaging needs for translational research programs. 2. To assist investigators in the use of the latest radiological imaging technologies and to develop tools for imaging data sharing and re-use. 3. To provide an opportunity for radiology trainees and junior faculty to engage in translational research with imaging components and to train in the science of clinical investigation.	Yes	$130,000 allocation from the main grant for support of the Core's Office	Imaging Core leader – CISTeR Director, Consultative Service for Imaging Protocol Development "Rapid Response Team" (6 members), Administrative Assistant	Consultations for protocol design provided free of charge to Hopkins investigators. Services for the management of research imaging data through the Johns Hopkins Medical Image Research Archive Center (JHMAC) are offered with a fee schedule outlined at JHMAC http://www.hopkinsradiology.org/CISTeR/JHMAC	1. To develop algorithms, metrics for quantification and image analysis for translational research, to include comprehensive phenotyping for biomarker development (discovery and validation) and therapeutic evaluation in collaboration with the Proteomics and Drug Development Cores. 2. To design, implement, and validate novel imaging methodologies and techniques to enable and support translational research: diagnostic probes, therapy monitoring probes, engineering and device development for patient modeling, robotics and simulation.
Mayo Clinic College of Medicine **Contact:** Bradley Erickson, MD, PhD **Pi:** Robert A. Roza, MD	**2006**	Yes - Informal		Yes - significant	Yes	It supports some administrative time and more imaging management services in development.			
Northwestern University **Contact:** David Channin, MD **Pi:** Philip Greenland, MD	**2008**	Yes - Informal		Yes - limited	Yes	N/A			
Ohio State **Contact:** Michael Knopp, MD, PhD **Pi:** Rebecca Jackson, MD, PhD **Website:**Radiology.osu.edu	**2008**	The imaging effort within the CTSA grant is scheduled to fully start in 2011, however, we have multiple services that already function in a corelab way.	Protocol review, trial management, trial assessment, microimaging service, small animal imaging core, imaging agent core service (in development), protocol development, budget planning, performance of imaging (all modalities), data management, data analytics, blinded assessment, grant and publication support, compliance - IRB and animal use protocol management and review	Development of a clinical imaging core in Years 3-5 that consolidates the different clinical research support services established at OSUMC via PI-initiated grants. Linkage to caBIG and other bioinformatics development and support activities.	Not yet	Not applicable	Wright Center of Innovation in Biomedical Imaging. PI-led Knopp has dedicated administrative lead. All services have scientific leads that are supported by research and technical staff .	Charges for utilization of imaging services, analytics, and protocol setup. Some start-up projects are funded out of WCI-BMI operations. User fees overall are utilization dependent – higher charges in off hours.	A trans-institutional environment to guide protocol development. Efficient utilization of imaging services and centralized data repository and data management. Technical staff driven imaging services. Fully SOP-driven environment.
Scripps Clinic and The Scripps Research Institute **Contact:** Eric Topol, MD **Pi:** Eric J. Topol, MD	**2008**	Yes - Formal		Yes - significant	No	N/A			
Stanford University **Contact:** Timothy Doyle, D.Phil **Pi:** Harry Greenberg, MD **Website:** mips.stanford.edu/public/sc3.adp	**2008**	Bioinformatics Cell sciences imaging facility Cognitive Neuroscience – brain imaging Electron Microscopy Fluorescence Activated Cell Sorting –FACS Microarray Facility Stanford Center For Innovation In In-Vivo Imaging Radio–chemistry Image quantitation and visualization resource core 3D imaging Lab Supercomputer – Biocomputation Core Transgenic Animal Facility None of these cores are directly affiliated or associated with CTSA but provide services to all Stanford community	Instrument training and support – all modalities Optical bioluminescence and fluorescence PET, CT SPECT/CT Ultrasound MRI Microscopy Data analysis training and software support Imaging agent production Fluorescent and electron microscope Brain imaging – Magnetic Resonance Animal training Protocol development Imaging agent development Etc. …	N/A to this core	N/A to this core, but maybe to other clinical cores at Stanford	Molecular Imaging Program at Stanford (MIPS) administrate the small animal imaging facility, radio-chemistry and Image Quantitation and Visualisation Cores. Support for Small Animal Imaging Core also provided by Stanford Cancer Center and Digestive Disease cores Other facilities are administrated by their respective departments.	Yes for most services	CTSA does not currently support Small Animal Imaging Core
The University of Alabama at Birmingham **Contact:** Reginald Munden, MD, DMD **Pi:** Lisa M. Guay-Woodford, MD	**2008**	Yes - Informal		No	No	N/A			
University of California, San Francisco **Contact:** Bonnie Joe, MD, PhD **Pi:** S. Clay Johnston, MD, PhD	**2006**	No		Yes - significant		N/A			
University of California, Davis **Contact:** John Boone, PhD **Pi:** Lars F. Berglund, MD, PhD	**2006**	Yes - ?		Yes - limited	No	N/A			
University of Colorado at Denver **Contact:** Ann Scheiderger, PhD **Pi:** Ronald J. Sokol, MD **Website:** BRL: http://www.uchsc.edu/ucbirl/ and CTTSI: http://cbas1.uchsc.edu/RESEARCH-RESOURCES/NIETP/pages/default.aspx	**2008**	Six CCTSI Pillar Programs. Translational Technologies includes the Imaging Components - Small Animal Imaging and Microscopy	Protocol Review Image Review Image quality, protocol compliance and Research reads Image Analysis Human and Animal: REC/IST, Volumetrics, Lesion characterization, Clinical trials, MRS, fMRI Data Transmission	Specific Aim 1: Identification of research questions requiring novel methodology development.; Specific Aim 2: Analyzing the need in greater depth and determine what resources are required.; Specific Aim 3: Transformation from a need to a functioning novel methodology. Clinical Studies Specific Aim 1: Develop a broad-based grants system, impacting all levels of CCTSI participants - Pilot award funding target area is bioengineering. - Currently 1 MRI, 2MRS awards	Some start-up funds	1Protocol review consolidation between affiliates; 2. Research workflow standardization; 3. Animal and human imaging analysis	In transition: Department Chair; Administrator/Radiology Grants Manager.	Yes: Protocol Review Fee Imaging Fees - 1. Technical depends on site. 2. Professional - grant or research review fees. 3. Analysis depends on complexity.	Protocol Review using MS Sharepoint Services - 1. Publication of SOPs and fees. 2. Efficient protocol review between affiliates :: Integration of informatics into the Imaging Core :: Enhancement of image handling abilities.
University of Iowa **Contact:** Richard Hichwa, PhD **Pi:** Gary W. Hunninghake, MD	**2007**	No				N/A			
University of Michigan **Contact:** Ruth Carlos, MD **Pi:** Kenneth J. Pienta, MD	**2007**	Yes - Informal		Yes - limited	No	N/A			
University of North Carolina, Chapel Hill **Contact:** Weili Lin, PhD **Pi:** Etta Pisano, MD **Website:** www.med.unc.edu/bric	**2008**	Three Imaging Cores at The University of North Carolina at Chapel Hill 1. Human Imaging Core 2. Animal Imaging Core 3. Image and statistical analysis core None of these cores are specifically affiliated with the CTSA, but do provide imaging services to all investigators	Human Imaging Core Protocol development/implementation Image acquisition and archiving Subject training Nursing support Safety training Animal Imaging Core Protocol development/implementation Image acquisition and archiving Animal preparation/monitoring IACUC approval Data analysis MR-Sequence programming, Parameter optimization PET -Synthesis of imaging probes, Data analysis Optical Imaging-Training Image and Statistical Analysis -Segmentation -Co-registration -Visualization -Experimental design -Power calculation -General statistical analysis	N/A	N/A	N/A	The three imaging cores are administered within the Biomedical Research Imaging Center, which is an institutional center focusing on all aspects of imaging. Each core has a core leader	Yes	Expanding imaging capability -Equipment -Technical Expertise -Cyclotron facility Animal housing issues
University of Pennsylvania **Contact:** Mitchell Schnall, MD, PhD **Pi:** Garret A. FitzGerald, MD	**2006**	Yes - Formal		Yes - significant	Yes	Funds to support personnel involved in collaborative support for imaging trials; Pilot project dollars			
University of Rochester **Contact:** David Waldman, MD, PhD **Pi:** Thomas Pearson, MD	**2006**	Yes - Informal		Yes - limited	No	N/A			
University of Texas Health Science Center at San Antonio **Contact:** Peter Fox, MD **Pi:** Robert A. Clark, MD	**2008**	Yes - Formal		Yes - significant	Yes	Core faculty support and pilot study support. The Imaging Core was first developed about 5 years ago under the GCRC, as a supplement. This program has been very successful and was transferred to the CTSA with little change.			
University of Washington **Contact:** Satoshi Minoshima, MD, PhD Paul Kinahan, PhD **Pi:** Mary L. Disis, MD	**2007**	Yes - Formal		Yes - limited		N/A			
University of Wisconsin, Madison **Contact:** Frank Korosec, PhD **Pi:** Marc K. Drezner, MD **Website:** http://ctsr.wisc.edu/node/209	**2007**	Image response assessment team (IRAT) associated with the UW Comprehensive Cancer Center Institute for Clinical and Translational Research (ICTR) Imaging Core Facility modeled after the IRAT using the same radiology "shared services" infrastructure	Assistance in protocol design and modality selection Assistance in identifying image endpoints and proposed image analysis Discounted rates for ICTR members Image analysis on fee for service basis.	Yes, establishment of the imaging core facilities was part of the research design	The CTSA award provides modest salary support for PI's and service personnel	The CTSA award provides NO support for infrastructure, supplies or equipment	There are overall directors of the imaging core (Dr. Frank Korosec) and IRAT (Dr. Robert Jeraj) Image analysis core facility serves both IRAT and CTSA (Directed by Dr. Sean Fain) Shared Services Committee is made up of a panel of experts with backgrounds in medical physics, oncology, and radiology and serves as an overall advisory board	No, they obtain discounted access to services. The image analysis core facility is a fee for service facility	We have been building the infrastructure and advertising our services Future work will be to develop several research projects in concert with the UW CCC to further develop and refine the advisory, image acquisition and analysis roles of the Center
Vanderbilt University **Contact:** Thomas Yankeelov, PhD **Pi:** Gordon Bernard, MD	**2007**	Yes - Informal		Yes - limited	Yes	Our CTSA provides seed funds for investigators to do imaging projects			
Washington University, St. Louis **Contact:** John Kotyk, PhD **Pi:** Kenneth S. Polonsky, MD **Website:** http://www.icts.wustl.edu/cores/hiu.aspx	**2007**	Yes, the Human Imaging Unit (HIU)	Protocol development & review Help with IRB submissions Budgetary planning Imaging services (MR, CT, PET, PET/CT and US) Project coordination and nursing services IT image analysis software development support Data management, analysis and processing services		Yes. Salary support and pilot funding for imaging studies	CTSA pays a small percent of the staff's salaries of the Human Imaging Unit.	Human Imaging Unit Co-Directors; lead coordinator; lead imaging technologists (for each modality); admin support from main ICTS staff	Charges for services provided in the imaging facility.	Improve infrastructural and workflow efficiencies. Implement advanced imaging protocols and technologies. Expand imaging analysis and processing services.