

Introduction To iLab

iLab is a web-based software that coordinates all the scheduling and billing for the MRI users in the Zuckerman Institute and other Columbia facilities. The URL is <https://cumc.corefacilities.org/account/login> and users sign in with their UNI. (If you need a UNI, contact the MR Research Administrator.)

The screenshot shows the iLab Operations Software interface. At the top left is the Agilent CrossLab logo and the text "iLab Operations Software". On the right, there is a search bar with the text "Search cores and services..." and a "Go!" button. Below the search bar is a navigation menu with links for "home", "communications (1)", "core facilities", "view requests", "list all cores", "invoices", "reporting", "manage groups", "my groups", "my core", and "people search". The main content area features the title "Zuckerman Mind Brain Behavior Institute: MR Core" and the Columbia University logo. Below the title is a navigation bar with links for "About Our Core", "Schedule Equipment", "Request Services", "View My Requests", and "Contact Us". The main content area is titled "Overview of Services" and contains several paragraphs of text describing the MR systems and laboratories. The text includes details about Siemens Prisma and Bruker Biospin systems, their specifications, and the MR Laboratories. The interface is clean and professional, with a white background and blue accents.

Agilent CrossLab | iLab Operations Software

system upgrades (Aug. 2018) | HELP | my profile | logout Kathleen Durkin

Search cores and services... Go!

home communications (1)

core facilities

Zuckerman Mind Brain Behavior Institute: MR Core

view requests

list all cores

invoices

reporting

manage groups

my groups

my core

people search

Zuckerman Mind Brain Behavior Institute: MR Core

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About Our Core | Schedule Equipment | Request Services | View My Requests | Contact Us

Overview of Services

The Zuckerman Mind Brain Behavior Institute is home to three new, state-of-the-art, research-grade MR systems and the laboratories and staff to support their application to preclinical and human biomedical investigations. All systems are fully capable of MRI, multi-nuclear MRS and fMRI and are fully dedicated to research.

Each of the two Siemens systems and the Bruker system have the following specifications:

Siemens Prisma
3T, 60cm bore
80 mT/m @ 200 T/m/s whole body gradients
128 RF receiver channels
2 RF transmit channels
Multinuclear spectroscopy capable
13 tons, 213 cm long
Closed helium cryocooled (zero helium boil off) magnet
Head, neck, body and spine coils come with system

Our high-field small animal system has the following specifications:

Bruker Biospin
Field strength: 9.4 T
Diameter of clear bore: 30 cm
200 mT/m, 2000 T/m/s gradients
Length: 2.08 m
Diameter: 1.706 m
Multi-nuclear capable
RF cryo-probe and additional volume and surface coils are supplied

MR Laboratories

In addition to the spacious magnet, equipment and console rooms housing these MR systems, each MR suite includes animal prep and animal holding rooms. The human bore 3T Prisma suites also include human volunteer waiting rooms. A mock bore is also available for training MR subjects. Full electronics and instrumentation laboratories are also located on the basement floor near the magnet suites. These labs include all of the machining, fabrication, electronics test equipment and instrumentation required to provide custom experiment support. Examples include animal holders, radiofrequency coils, local shim and gradient coils, physiological monitoring, measurement and stimulation devices. Equipment in the electronics lab includes network analyzers, spectrum analyzers, oscilloscopes, frequency synthesizers, waveform generators, RF power amplifiers, power supplies, volt-ohm meters, power meters, fiberoptic thermometers, infrared cameras and a full complement of hand tools, test leads and calibration kits. The machine shop includes lathes, a milling machine, a board mill, drill presses, a 3D printer, band, table and cut-off saws, and a full tool chest. The instrumentation lab contains the full array of Bio Pac and AD physiologic monitors, stimuli devices and other transducers to support both humans and animals on all three MR systems.

At street level of the Greene building is a spacious computational lab dedicated to electromagnetic field simulations, heat transfer simulations, signal processing, RF and gradient pulse programming, data acquisition protocols, data analyses, CAD/CAM design of mechanical devices and packaging and electrical circuits. This lab will host 12 computer terminals and 12 electrical test bench stations.

Leadership

J. Thomas Vaughan
Director - MR Core
jtv2114@columbia.edu

Primary investigators must create an iLab account for their lab and enter information about the grants that will pay for MRI scan time. Then lab members create iLab accounts. The PI must approve each lab member and indicate which grant will pay for the scan time each member schedules.

Braun, Estela () Lab

2 Membership Requests & Fund Codes Members (9) Budgets Bulletin board (9) Group Settings

3 Membership Requests

✓ No Access Requests require approval

1 Manage Fund Codes 4

Click on the check boxes to change funding assignments in real time. A green highlight indicates a saved change.

	5290	5327	6020
Estela Braun	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sook Peoples	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Felicity Yingst	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Keara Goff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Leta Zamora	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nellie Peery	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Waino Luker	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
William Lefevre	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Xenopoulos Hammes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Request access to additional Fund Codes

Select a check box on each row to assign a fund from that column to a lab member.

Assigned funds will be available for the lab member to use when requesting core services.

Once the lab members are approved by the PI and have completed Level II MR Safety training, they can schedule time on the calendars.

There are separate calendars for each MRI system (the Bruker Biospin 9.4T system, Siemens Prisma 3T “Eve”, Siemens Prisma 3T “June”). There are also calendars for the mock scanner and each of the 3 testing rooms. Last, there is a calendar with the MR Technologist’s availability. (All users who need to work with the MR Technologist must check this calendar before scheduling “Assisted” scanning time. Otherwise, the MR tech will not be available for the scan.)

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system updates | Aug. 2018 | v10.0.2 | my profile | Logout | Get Support

Search cores and services

Zuckerman Mind Brain Behavior Institute: MR Core

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About Our Core | Schedule Equipment | Request Services | View My Requests | Contact Us

Schedule Resources

Go to Kiosk

Bruker Biospin 9.4T	View Schedule
Siemens Prisma 3T (Eve)	View Schedule
Siemens Prisma 3T (June)	View Schedule
Mock Scanner Bore Room SC4-131	View Schedule
Testing Room SC4-127	View Schedule
Testing room SC4-128	View Schedule
Testing room SC4-130	View Schedule
MR technologist availability	View Schedule

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It is easy to see what times are available on each scanner by checking the calendar. See the protocol “How to Reserve Scan Time in iLab”.

Day	Week	Two weeks	Month	Multi View	Sunday, Aug 19 – Saturday, Aug 25						
					Sun_August_19	Mon_August_20	Tue_August_21	Wed_August_22	Thu_August_23	Fri_August_24	Sat_August_25
09:00 AM						Assisted Trained user	05:00 AM - 11:00 AM EVE - Daniel Kimmel, (unpaid)	Assisted Trained user	05:00 AM - 10:15 AM EVE ▲ NYSPI IRB 7370	Assisted Trained user	
10:00 AM	10:30 AM - 12:00 PM EVE - Tottenham Scheduling Account: ()	10:00 AM - 12:00 PM EVE - Daniel Kimmel, (unpaid)					11:00 AM - 12:00 PM EVE	11:00 AM - 12:00 PM EVE		10:30 AM - 11:30 AM EVE - Unavailable	10:00 AM - 11:30 AM EVE - Tottenham Scheduling Account: ()
11:00 AM											
12:00 PM		12:00 PM - 01:00 PM EVE				12:00 PM - 01:00 PM EVE	12:00 PM - 01:00 PM EVE	12:00 PM - 01:00 PM EVE	12:00 PM - 02:00 PM EVE - Daniel Kimmel, (unpaid)		
01:00 PM						01:00 PM - 04:00 PM EVE • MIT core technical development time • Unavailable MIT core technical development time					
02:00 PM		02:00 PM - 03:00 PM EVE - Tracy L. Gleason, (212-342-...)					02:30 PM - 04:30 PM EVE - Marissa Cross, (unpaid - 646-774-8930)	02:30 PM - 04:00 PM EVE ▲ AAAK7202 - Sydney Krueger (609)3388171	02:30 PM - 04:00 PM EVE ▲ (unpaid) - Eric Oursell, (unpaid - 8728162163)	03:00 PM - 05:00 PM EVE ▲ (unpaid) - Eric Oursell, (unpaid - 8728162163)	
03:00 PM											
04:00 PM						04:00 PM - 05:00 PM EVE					03:00 PM - 04:30 PM EVE - Tottenham Scheduling Account: ()
											04:30 PM - 05:00 PM EVE - Tottenham Scheduling Account: ()