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M UNIVERSITY OF MICHIGAN
NORTH CAMPUS RESEARCH COMPLEX



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It is gratifying to note the success of the Biointerfaces Institute at NCRC. This foundational program represents the true vision of inter-disciplinary collaborative research at our site. We are happy to welcome new Department of Emergency Medicine researchers and their labs to NCRC.

Good news - the NCRC community members are telling us that they are more satisfied than a year ago with the quality of their work life. The solid work of our administrative and facilities teams that are behind the obvious vibrancy at NCRC is paying off.

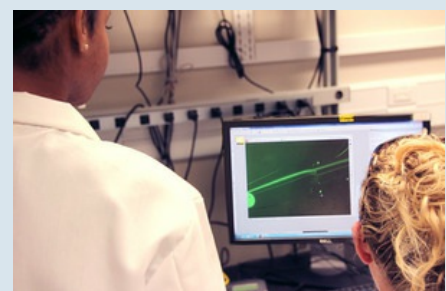
I hope you enjoy the last few weeks of summer.
[David Canter](#), Executive Director, NCRC

Biointerfaces Institute at NCRC Furthers the Collaborative Research Mission

Nagrath lab a true example of research across disciplines

Dr. Sunitha Nagrath, a faculty member in the Biointerfaces Institute located at NCRC, exemplifies cross-disciplinary collaborative research. At NCRC since February 2012, Nagrath has had ample time to settle in and appreciate the advantages that NCRC offers in terms of co-location of researchers from across disciplines, sharing contiguous lab space.

Nagrath's research goal is to bring the next generation of engineering tools to patient care, especially in cancer. Her lab develops advanced MEMS tools for understanding cell trafficking in cancer through isolation, characterization and study of circulating cell in peripheral blood of cancer patients. Separating cancer cells from the blood allows them to be used for diagnosis and monitoring of the disease. In particular, the Nagrath lab is developing microfluidic devices for isolating and studying cancer cells as related to metastasis.



Nagrath feels that the



NCRC model is an excellent fit with her research needs. Although she is an engineer, she and her researchers work at the intersection of engineering, biology and medicine. It is important for her to be able to collaborate and interact with oncologists, biologists, chemists and physicists. NCRC offers the right platform for such collaborative work. Next door to the Nagrath lab is Dr. Max Wicha's oncology lab with whom Nagrath is working to isolate cancer stem cells.

"Having the opportunity to just walk into that lab and grab some cells from them, or grab one of their researchers to show them what we are working on and interact daily is a huge benefit," says Nagrath (pictured above and with students on the right).



NCRC Community More Satisfied than Before

Quality of Life survey reveals improvements along almost all dimensions

The NCRC Survey Program has just completed its second annual *Quality of Life Survey* for the entire site. We are gratified to learn that the levels of satisfaction among those who work at NCRC has increased in the last year. Distributed to 1,360 NCRC community members, the survey had a robust response rate, allowing us to derive meaningful results.

Comparison of Satisfaction with Year Ago

Area of Focus	2012 Respondents Satisfied*	2011 Respondents Satisfied*
Overall Satisfaction	76%	65%
Building Access and Security	77%	63%
Services and Infrastructure	74%	67%
Parking and Transportation	73%	66%
Collaboration	44%	34%
Fitness	50%	57%
Food	16%	15%

* *Satisfied* is defined as: satisfied and very satisfied

With more research labs now at NCRC, of particular interest is the satisfaction levels associated with research services and opportunities for collaboration.

Specific **research support services** such as autoclave, glasswash and biological waste pick-up have all been rated highly by the users of these services at NCRC.

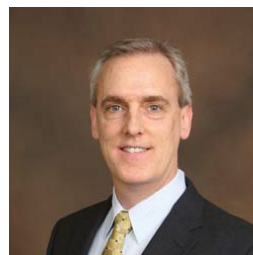
Emergency Medicine Group at NCRC Expands

New Chair and researcher are significant additions

With John Younger, M.D., M.S., moving his lab to NCRC earlier this year, the Department of Emergency Medicine established a presence at this site. Younger is the associate chair for research in Emergency Medicine, and member of the Biointerfaces Institute.



In July 2012 Robert W. Neumar, M.D., Ph.D., a renowned expert in brain damage after cardiac arrest and head trauma, was appointed chair of the University of Michigan Medical School's Department of Emergency Medicine.



Neumar comes to U-M from the University of Pennsylvania Perelman School of Medicine, where he was an associate professor of emergency medicine and associate

director of the Center for Resuscitation Science. Along with maintaining an active clinical practice at the Hospital of the University of Pennsylvania, Neumar conducted extensive research focused on understanding the mechanisms of brain injury and developing therapies to

Research Service	Percent Satisfied*
Autoclave	80%
Glasswash	65%
Biological Waste Pick-up	77%

* *Satisfied* is defined as: *Satisfied* and *Very Satisfied*



Satisfaction with **opportunities for collaboration** increased from last year, along *all three dimensions measured*: opportunities to network with other groups, increase in work efficiency due to proximity to other groups and the possibilities of developing new connections leading to new projects.

injury, and developing therapies to minimize brain damage and improve the brain's ability to recover after cardiac arrest and traumatic brain injury.

Following his appointment, Dr. Neumar moved his lab to NCRC, and also recruited an additional scientist and his team -- Kevin Ward, M.D., the current director of the Virginia Commonwealth University Reanimation Engineering Science Center. Ward's research is focused hemorrhagic shock and combat casualty care with an emphasis on developing innovative technologies for the diagnosis, monitoring, and treatment of critically ill patients.

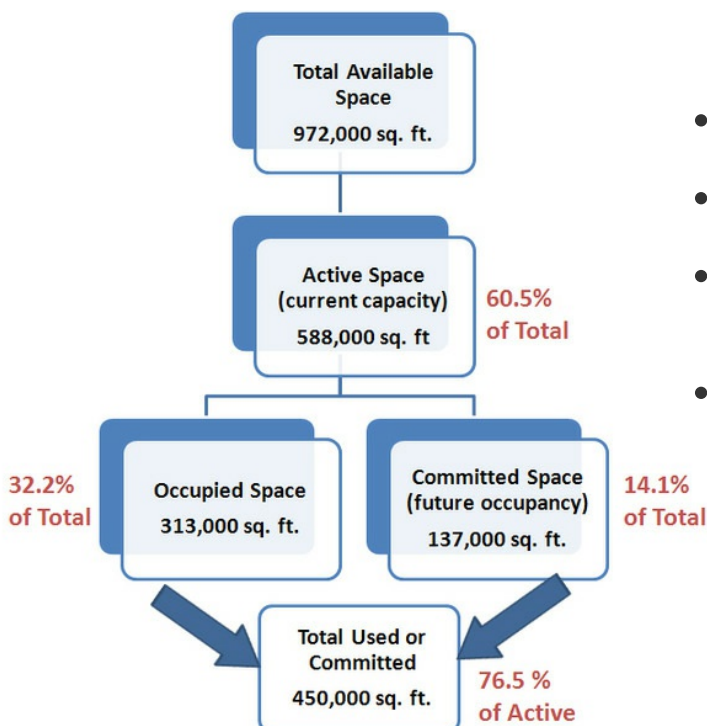


Together, the Emergency Medicine researchers based at NCRC expect to study the biology of critical injury and illness, including causes, diagnoses and treatment. The labs will serve as a scientific home and platform for basic scientists, clinical investigators, inventors, and entrepreneurs across the university interested in the care of patients with life-threatening acute illness and injury. Research will take new ideas in the basic sciences – whether biological, physical, or theoretical -- and carry them to clinical application in the treatment of critical illness and injury.

NCRC Metric: Indicators of Progress



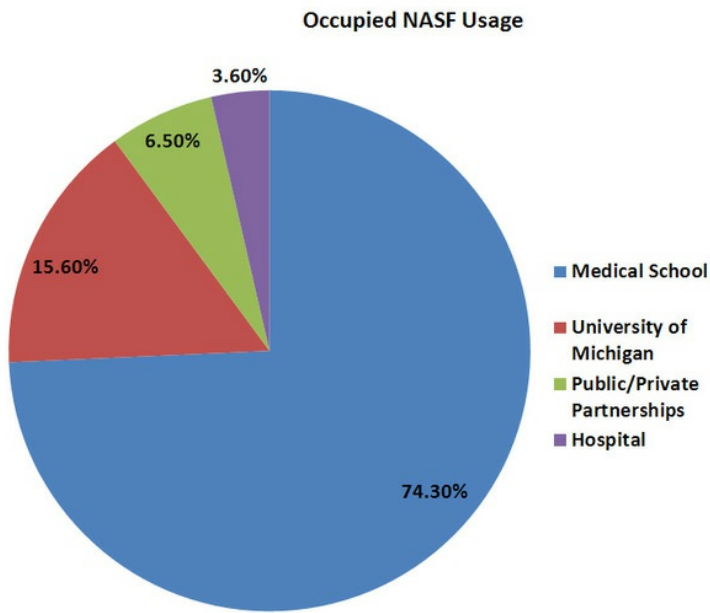
Current space usage at NCRC:



Of the total useable Net Assignable sq ft (NASF) (972,000 sq ft):

- 60.5% is ready to be used/current capacity (588,000 sq. ft. Active NASF).
- 32.2% is currently in use (313,000 sq. ft. Occupied NASF).
- 14.1% is committed for future occupancy by Dec 2012 (137,00 sq. ft. Committed NASF)
- 76.5% of Active NASF space (588,000 sq ft) is being used or is committed (450,000 sq ft).

Currently, the Occupied NASF space (313,000 sq ft) is being used by the following groups:



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