

The [Hollings Cancer Center \(HCC\)](#) is the focus of cancer care and research activities at MUSC across all six colleges (Medicine, Dental Medicine, Nursing, Graduate Studies, Pharmacy, and Health Professions). HCC opened its first facility in 1993 and recently moved into a new building which includes 98,000 square feet of research laboratories. In June 2004, [Dr. Andrew S. Kraft](#) (Professor of Medicine & Biochemistry and Molecular Biology), became Director of HCC. Dr. Kraft leads a team of 130 faculty researchers representing 13 departments in multiple colleges. Since 1993, clinical volume has grown from 15,000 patient visits per year to more than 80,000 and cancer research extramural funding has tripled to \$33 million with two-thirds from the National Institutes of Health.

Core Facilities

Cancer clinicians and investigators utilize substantial facilities for interdisciplinary research, training and patient care across the campus and at the nearby Ralph H. Johnson VA Medical Center. HCC supports a robust array of core research resources including:

- *Biostatistics*
- *Clinical Trials*
- *Proteomics*
- *Lipidomics*
- *Pharmacology*
- *Animal Models*
- *Molecular Imaging*
- *Drug Discovery*
- *GMP Facility*
- *Drug Metabolism/Clinical Pharmacology*
- *Tissue Procurement and Tumor Bank*
- *Flow Cytometry and Cell Sorting*

Growth

To accommodate the expanding clinical activities and provide additional space for the growth of basic and translational research, MUSC built a 7-story tower annex to HCC, bringing total MUSC cancer space to more than 200,000 square feet. Future recruitments will be housed in two new buildings, the Drug Discovery and Bioengineering Buildings, to be completed in 2009 and 2010 respectively.

Clinical Trials Network

The Hollings Cancer Center Clinical Trials Network represents an affiliation of quality cancer centers and

programs throughout South Carolina. [The Hollings Cancer Center Clinical Trials Office \(CTO\)](#) provides oversight of approximately 250 clinical trials and over 1,000 trial participants. The CTO provides support to all investigators in the Cancer Center for clinical research activities.

Featured Researchers

[Dr. Yussuf Hannun](#) is the Ralph F. Hirschman Professor of Biomedical Research, Deputy Director of the HCC and the Chair of the MUSC Department of Biochemistry and Molecular Biology. Dr. Hannun recently received the 2006 Governor's Award for Excellence in Science. His research has focused for over 20 years on the study of lipids (fat molecules) and their roles in cancer and cell regulation.

[Dr. Charles Smith](#) was recruited from Pennsylvania State University to fill an endowed chair as part of the South Carolina Centers of Economic Excellence Program. Dr. Smith will also direct the HCC's new Drug Discovery Core which is a shared resource that will screen new compounds for anti-cancer activity.

[Dr. Kenneth Tew](#) holds the John C. West Endowed Chair in Cancer Research. Dr. Tew is professor and chairman of the Department of Cell and Molecular Pharmacology and Experimental Therapeutics, and has international recognition in cancer drug development and testing.

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