



UNIVERSITY of MARYLAND
SCHOOL OF MEDICINE



*The School of Medicine
Research Building:*

HEALTH SCIENCES FACILITY III

A MESSAGE *from* **DEAN REECE**

Consider for a moment this question—what shapes the future? Obviously, the answer is today, for it is only by extending our present reach that we are able to fully grasp tomorrow’s possibilities. This may seem like a simple truth, but it holds powerful implications for the future of the University of Maryland School of Medicine, and indeed, for us all.



At the School of Medicine, we have always made the relentless pursuit of excellence our primary mission—both in terms of our research and the provision of care. To continue our pace as a top tier institution for groundbreaking biomedical research, we must reach for tomorrow, today. Thanks to a growing wave of scientific discoveries, the world of medicine is rapidly changing around us. As a result, the linkage between biomedical research and medical care has never been more important. We are able to effectively treat more diseases today than ever before. However, pinpointing their actual cause and preventing them requires a focused, carefully orchestrated, and consistent research effort.

At present, the School of Medicine is regarded as one of the world’s leading centers for biomedical research—and with good reason. Our School has more than 1,400 full-time faculty researchers, whose work focuses on new technologies and scientific discoveries, and who generate approximately \$400 million in research grants and contracts. We must seek an additional resource, a world-class facility, that will provide the staging ground for future success—Health Sciences Facility III, to ensure that faculty research efforts are not impeded.

The need for this research building is vital to all of us at the School of Medicine—and by extension, to the overall state of Maryland’s health and economy. Therefore, I would like to personally invite you to learn more about the specific needs, relative to this new research building, in the pages that follow. Your support will propel fundamental and translational research and help drive medical breakthroughs that will transform the health and well-being of many thousands of people in Maryland, and throughout the world.

Sincerely yours,

A handwritten signature in black ink that reads "E. Albert Reece". The signature is written in a cursive, flowing style.

E. Albert Reece, MD, PhD, MBA

*Executive Vice President for Medical Affairs, University of Maryland, Baltimore
John Z. and Akiko K. Bowers Distinguished Professor and
Dean, University of Maryland School of Medicine*

Although a large percentage of its 430,000 square feet will be dedicated to wet and dry research laboratories, the new facility will also feature faculty offices, conference rooms, collaborative innovation hubs, a seminar room, a high-end imaging suite, and a green roof garden.



An **EXTRAORDINARY EXPLOSION** of *Opportunity*

One medical investigator has called it “**an extraordinary explosion of opportunity.**” Driven by rapid advances and breakthroughs on such fronts as genetics, genomics, immunology, informatics, and stem cells, biomedical research is now on the verge of a new era of discovery—a period that could quickly lead to sweeping improvements in human health.

Today, the University of Maryland School of Medicine is in the top tier of the nation’s groundbreaking research-intensive institutions. However, along with this distinction comes competition, as fellow institutions across the country vie for the honor and financial rewards of being the first to achieve major scientific breakthroughs. To compete effectively, the School of Medicine must acquire and develop the necessary physical resources to maintain our momentum.

Building a new **FUTURE**

The School of Medicine presently has a space deficit of one million net assignable square feet for research. Nearly 40% of existing research space is more than 30 years old, and it cannot accommodate the modern technology required for highly specialized biomedical research. The costs to bring facilities to current standards are very expensive and highly inefficient.

With a new state-of-the-art research facility, we will continue our existing research and introduce new programs, allowing the School to:

- Strengthen our biomedical research profile
- Develop research that leads to the treatment and prevention of major diseases
- Attract world-class investigators and retain our present faculty
- Capture additional and significant research funding
- Create a leading-edge learning environment for our students

With its stated goal of raising \$65 million, the capital campaign for Health Sciences Facility III will answer this need through the completion of a biomedical research center that is second to none. With your generous support, you can help us build a new future for the School of Medicine and for the health of those we serve.

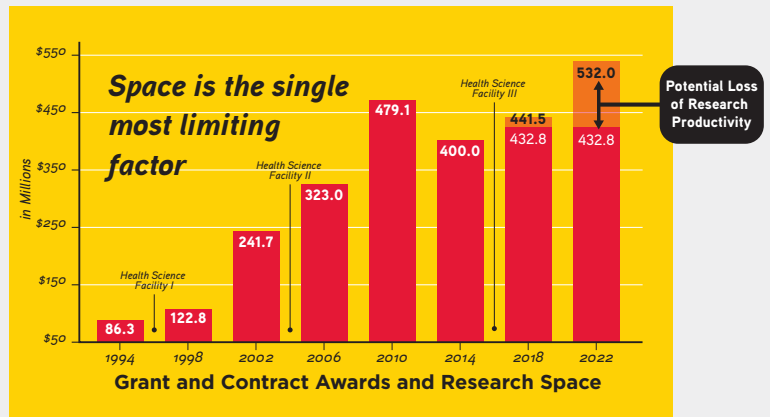
Alan R. Shuldiner, MD, *John L. Whitehurst Professor and Associate Dean, and his team of researchers found, through a genome-wide approach, a common gene variant that is associated with poorer response to clopidogrel (Plavix), which many cardiologists now use to individualize anti-platelet therapy. Translational studies are underway to begin to apply this new genetic knowledge to improve clinical care, a step toward personalized medicine.*

Our **NEED** *is* **REAL**

We are a state-assisted institution responsible for raising our own funds to match the State's investment for major capital improvements. This \$305 million research facility remains the highest priority for all capital projects within the University System of Maryland, and the institution is committed to ongoing budgetary support. We need the support of friends and community leaders such as you.



MORE *Space* ACCELERATED *Research*



Construction of Health Sciences Facilities I and II proved to significantly boost our research productivity by more than \$390 million. The Health Sciences Facility III will provide 430,000 square feet, expanding the School of Medicine's space by 18 percent. This newly completed research building will yield another pronounced surge, increasing research funding by \$100 million over the next 5 years.

Think of it as an architectural reflection of the collaborative enterprise that it will foster. When its doors open in 2018, the School of Medicine's new Health Sciences Facility III will be a world-class facility for biomedical research and serve to integrate the research activities of our faculty investigators as never before.

Unlike the solitary researchers of the past, today's biomedical investigators are more likely to work in productive, cross-disciplinary teams. Modern day facilities at the leading research institutions in the country now typically provide for a 1:1 ratio of laboratory to laboratory support space, recognizing the increasing use of sophisticated instrumentation and specialty procedural space, both wet and dry, which supports varied research activities. With the distinction between bench and support functions becoming increasingly blurred, the ability to work interchangeably between laboratory and support spaces becomes critical.

The Health Sciences Facility III will represent the newest standard of biomedical and biomechanical research enterprise at the University of Maryland School of Medicine. Unique to other research facilities currently at the University, this 10-story building will provide the essential element of flexibility, facilitating collaborative investigations and discovery work. Quite simply, the new building will allow scientists from different disciplines to work together with ease.

Claire Fraser, PhD, *The Dean's Endowed Professor and Director of the Institute for Genome Sciences, helped to initiate the era of comparative genomics through her landmark work that applies genome science and bioinformatics to understand genome function in health and disease.*





A cause of **HOPE**

Angela H. Brodie, PhD, *Professor Emerita*, paved the way for a new class of drugs widely used to treat breast cancer patients around the world. Her research with aromatase inhibitors has expanded into prostate cancer, collaborating with **Vincent C.O. Njar, PhD**, *Professor*, on a new androgen synthesis inhibitor.

It is clear that Health Sciences Facility III will play an invaluable role in accelerating and integrating biomedical research efforts at the School of Medicine. **But what tangible results will your support bring?**

In terms of research, your contribution could well make the difference between the discovery of a major breakthrough today or one 10 years from now. With the pace of biomedical research intensifying, preventative measures and cures for age-old diseases, once considered decades away, are now well within reach. Cancer, diabetes, heart disease, pulmonary disease, neurological diseases—all could be significantly reduced or eliminated over the next several years. Through your support of Health Sciences Facility III, you could have an enormous impact on the effectiveness of our research efforts in these areas, by allowing the development of new programs and teaching opportunities in such disciplines as:

- **Genomics and Genetics**, where gene mapping of the body has made genetic therapies possible to intervene with the advance of certain ailments and conditions
- **Cancer**, where new targeted treatments are being developed that reduce the risk of damaging nearby healthy organs and minimize side effects, allowing patients to heal faster
- **Composite Tissue Transplantation**, where scientists are developing new strategies to solve the problem of immune tolerance in tissue transplants
- **Virology and Infectious Disease**, where scientists are nearing the discovery of preventive vaccines for childhood malaria and HIV

Your contribution could well make the difference between the discovery of a major breakthrough today or one 10 years from now.

Through the presence of the new facility, the School of Medicine will be positioned to increase its research funding by millions of dollars each year. **All in all, the quality of life across Maryland could be improved in ways we can only begin to imagine.**

The completion of Health Sciences Facility III will produce a number of tangible results—a world-class research center, a new standard of excellence for the School of Medicine, and an economic engine for the state of Maryland. However, over time, the major achievement of such a facility may lie in its ability to inspire hope for our common future—hope that cures will be found for age-old diseases; that our children will enjoy healthy lives without fear of affliction; and that, eventually, we will unlock the mysteries of human life itself.

There can be no greater mission, and no more worthy association, than this cause of hope. Through your gift to support Health Sciences Facility III, you can manifest your hope in a manner that could make an incalculable difference. What's more, your gift offers an extraordinary opportunity to have your generosity remembered for decades, and even centuries, to come.

It is all within reach. Please join us as we work together to build a better future for the School of Medicine and Maryland.

HSFIII naming Opportunities

\$50,000,000

Name the HSFIII Building

\$7,500,000

Name the Main Lobby/Multi-Story Atrium within the HSFIII (1st Floor)

\$6,500,000

Name a Floor (2nd–5th) within the HSFIII (Wet and Dry Laboratories)

\$5,500,000

Name a Floor (6th–9th) within the HSFIII (Wet Laboratories)

\$5,000,000

Name the Central Plaza of the HSFIII (Baltimore Street)

\$3,000,000

Name the High-End Imaging Suite within the HSFIII (Ground Floor)

\$2,500,000

Name a Suite of Laboratories within the HSFIII (Westside Module)

\$1,000,000

Name a Suite of Laboratories within the HSFIII (Eastside Module)

\$1,000,000

Name the Green Roof Garden (6th Floor)

\$500,000

Name the Seminar Room within the HSFIII (1st Floor)

\$250,000

Name an Innovation Hub on a floor within the HSFIII

\$100,000

Name the Outdoor Balcony (2nd Floor)

\$50,000

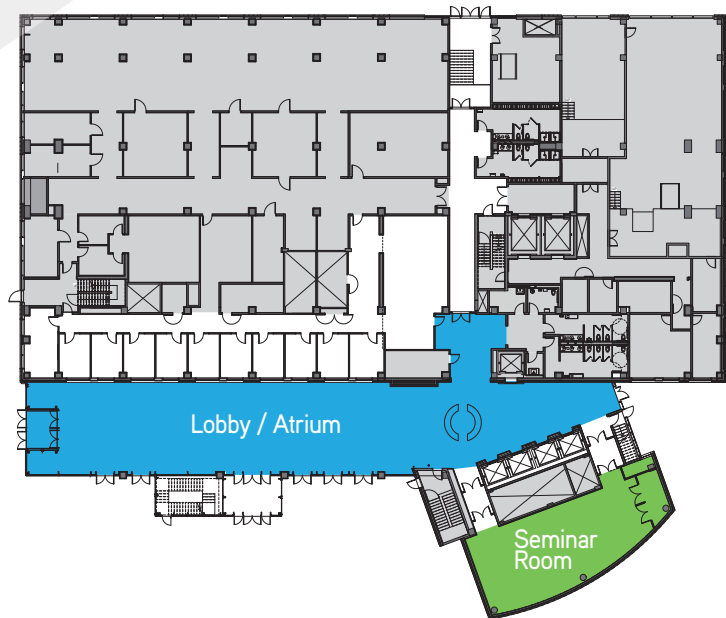
Name a Conference Room within the HSFIII

HSFIII

naming
Opportunities

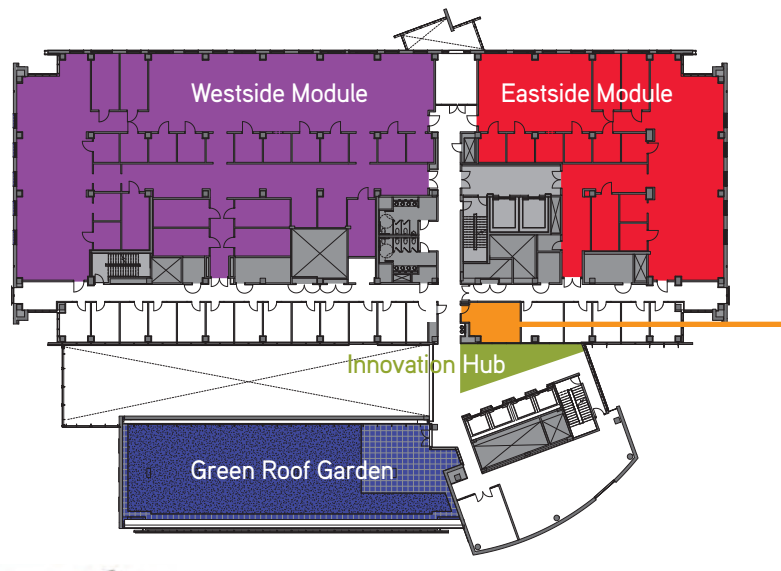
MAIN FLOOR

Lobby/Atrium **\$7.5 million**
Seminar Room **\$500,000**

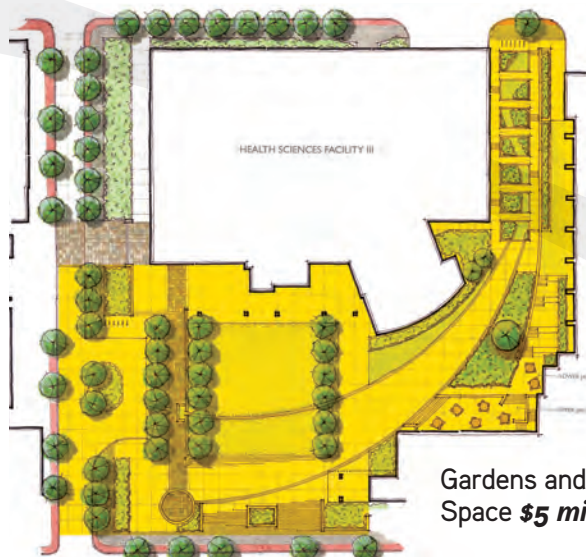


UPPER FLOOR

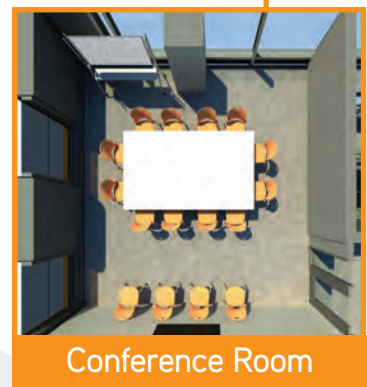
Whole Floor **\$5.5 million**
Westside Module - Suite of
Laboratories **\$2.5 million**
Eastside Module - Suite of
Laboratories **\$1 million**
Green Roof Garden **\$1 million**
Innovation Hub **\$250,000**
Conference Room **\$50,000**



CENTRAL PLAZA



Gardens and Outdoor
Space **\$5 million**



Conference Room