UT Southwestern Medical Center

75 YEARS

1943 - 2018

years of excellence,

and counting.

In celebration of UT Southwestern Medical Center's 75th anniversary, I am pleased to present this commemorative publication highlighting our illustrious history, growth, and continuing contributions to advances in science and medicine. Since its original founding in May 1943 as Southwestern Medical College, UT Southwestern has evolved to become one of the world's premier academic medical centers, recognized internationally for our exceptional biomedical research, forward-looking education and training of scientists and physicians, and lifesaving patient care.

We hope you will enjoy reading about milestones from our past and how our dedication to a culture of compassion, innovation, teamwork, and excellence continues to drive discoveries of the future.

Sincerely,

Daniel K. Podolsky, M.D.

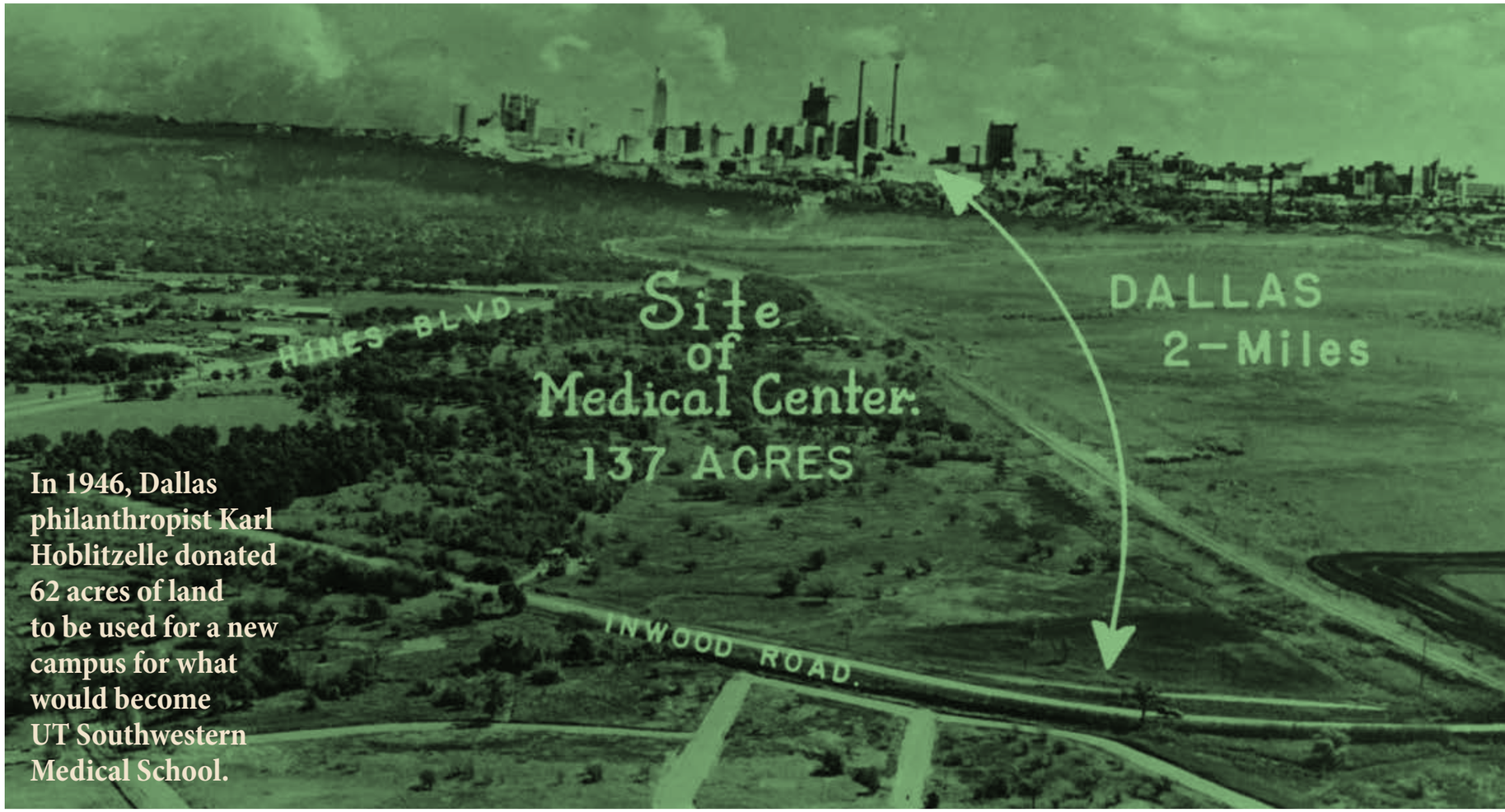
President, UT Southwestern Medical Center

The beginning

Celebrating 75 years of the future of medicine, today

It all started with a simple but ambitious idea – create a medical school in Dallas that would provide high-quality medical education, comparable to leading East Coast medical schools. Empowered by the strong support of civic and business leaders, this dream of Dr. Edward Cary, a prominent Dallas physician, became an enduring reality when classes began at Southwestern Medical College on September 27, 1943. Early on, the school set high expectations for its students, conferring degrees to graduates after careful consideration of their knowledge, understanding, and compassion. Although the facilities – Army barracks – were humble at first, the school recruited outstanding faculty, and in 1949, it became part of The University of Texas System.

One faculty recruitment proved to be transformational for the new medical school. Dr. Donald Seldin, enticed by the promise of establishing his own program in nephrology, left Yale University in 1951 to move to Dallas.



In 1946, Dallas philanthropist Karl Hoblitzelle donated 62 acres of land to be used for a new campus for what would become UT Southwestern Medical School.

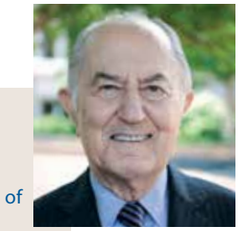
1943

Dr. Edward Cary, empowered by Karl Hoblitzelle and other civic leaders, establishes Southwestern Medical College, the nation's 68th medical school.

1949

Southwestern Medical College becomes part of The University of Texas System.

Over the next 36 years, Dr. Seldin cultivated a national reputation both for himself and for UT Southwestern through astute faculty recruitments, his commitment to education and training, his personal involvement in guiding the career development of his most promising students, and his prowess as a scientist and physician.



1952

Dr. Donald Seldin becomes Chairman of the Department of Internal Medicine, a position he would hold for the next 36 years.

1963

UT Southwestern doctors and Parkland Memorial Hospital staff respond when President John F. Kennedy and Texas Gov. John Connally are brought to Parkland after being shot in a motorcade in downtown Dallas.

1968

The School of Allied Health Sciences, now known as the School of Health Professions, is established at UT Southwestern.

1972

After a reorganization, Southwestern Medical School becomes The University of Texas Health Science Center at Dallas, with Dr. Charles Sprague as its first President.

1979

Dr. Ronald W. Estabrook is the first UT Southwestern faculty member elected to the National Academy of Sciences.

1984

James W. Aston Ambulatory Care Center opens its doors to receive its first patient.

1985

Drs. Michael Brown and Joseph Goldstein win the Nobel Prize in Physiology or Medicine for their discoveries concerning the regulation of cholesterol metabolism.

As the University's reputation for medical advancement grew, great minds converged on campus. Six faculty members were awarded Nobel Prizes between 1985 and 2013. Their discoveries, along with countless other clinical innovations, changed the practice of medicine. Severe burns, diabetes, high cholesterol, heart disease, kidney and lung cancer – just to name a few – all are treated with methods developed by UT Southwestern faculty.

Because of its location in the can-do city of Dallas – and a culture of interdependence and collaboration – UT Southwestern became a place characterized by an ambition and determination to have a major impact on science and medicine.

Its first President, Charles Sprague, M.D., oversaw the growth of UT Southwestern from a small but promising medical school into a vibrant, comprehensive medical and life sciences center. During his 19 years as the Institution's top leader, initially as Dean of UT Southwestern Medical School (1967-1972) and then as President (1972-1986), he initiated an unprecedented (in Texas) $40 million building expansion program; doubled Medical School enrollment in 10 years; and expanded allied health and research training programs. Dr. Sprague's leadership promoted a collaborative culture between researchers and clinicians that laid the groundwork for medical breakthroughs and positioned UT Southwestern to become one of the nation's leading medical institutions.

Kern Wildenthal, M.D., Ph.D., Dr. Sprague's successor, served as President of UT Southwestern for 22 years (1986-2008). During that time, the Institution grew fivefold in size and developed an international reputation for its scientific quality and contributions. More than 250 new endowed chairs and professorships were established; total endowments grew from $40 million to more than $1.3 billion; land was acquired to expand the campus from 65 to 300 acres; two referral hospitals and outpatient facilities were added to the campus; and the first half of a planned 4 million-square-foot research complex was completed. Dr. Wildenthal also helped lead the *Innovations in Medicine* campaign, which raised more than $750 million for research and clinical programs at UT Southwestern.

That same sense of purpose and drive continues today under President Daniel K. Podolsky, M.D., who has led the Institution's focus on clinical transformation and the integration of scientific and medical advances.

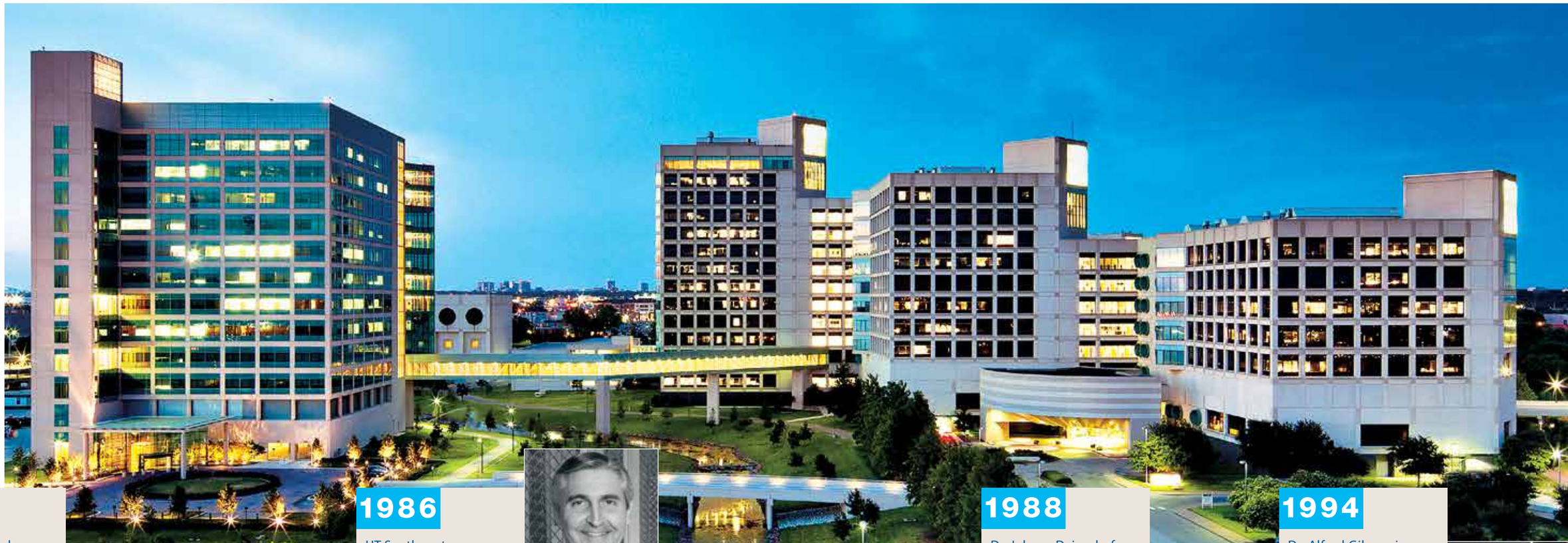
Between 1986 and 2008 the Institution grew fivefold in size and developed an international reputation for its scientific quality and contributions.

Dr. Hak Choy (left), Chairman of the Department of Radiation Oncology, and Dr. Carlos Arteaga, Director of the Harold C. Simmons Comprehensive Cancer Center, confer on Cancer Center activities.

Expanding excellence in every aspect

Over the past 10 years, under the leadership of Dr. Podolsky, UT Southwestern has experienced dramatic growth, not only within the Southwestern Medical District, but also across North Texas. Community-based clinical care facilities are now in five locations, including Fort Worth. New facilities such as the William P. Clements Jr. University Hospital and the William P. Clements Jr. University Hospital-Harold C. Simmons Comprehensive Cancer Center Radiation Oncology building promote our commitment to innovation and training while enhancing the experience of our patients and their families. Our entire clinical enterprise is aimed at delivering safe, effective, and compassionate care to all who come to us for help. That care is noted for its excellence:

- In 2017, *U.S. News & World Report* ranked UT Southwestern the No. 1 Best Hospital in Dallas-Fort Worth and the No. 2 Best Hospital in Texas.
- The Simmons Cancer Center is among the top tier of cancer centers in the country, having received the National Cancer Institute's "comprehensive" designation in 2015, its highest distinction.
- The Joint Commission certified UT Southwestern in 2014 as an Advanced Comprehensive Stroke Center, the highest level certification for hospitals providing the most complex and specialized stroke care.
- UT Southwestern University Hospitals were awarded Magnet® status in 2016 by the American Nurses Credentialing Center, an honor that is recognized nationally as the "gold standard" in hospitals for nursing excellence and high-quality patient care.



1985

The Howard Hughes Medical Institute selects UT Southwestern as the site of one of its largest research centers.

1986

UT Southwestern names Dr. Kern Wildenthal its second President in the Medical Center's history.

1988

Dr. Johann Deisenhofer receives the Nobel Prize in Chemistry for using X-ray crystallography to describe the structure of a protein involved in photosynthesis.

1994

Dr. Alfred Gilman is awarded the Nobel Prize in Physiology or Medicine for the discovery of G proteins.

As the landscape for health care continues to change, UT Southwestern is driving the translation of scientific advances and innovation into better care for patients.

2000

The Dallas Heart Study, a groundbreaking investigation of cardiovascular disease involving thousands of Dallas County residents, is launched.

During that same time, the breadth and scope of exploration at UT Southwestern have expanded to meet the changing demands of research and innovative patient care. Key developments include the launch of these centers and initiatives in recent years:

- The Peter O'Donnell Jr. Brain Institute, a comprehensive center dedicated to better understanding the basic molecular workings of the brain and applying those discoveries to the prevention and treatment of brain diseases and injuries.
- The Lyda Hill Department of Bioinformatics, which drives innovation in information technology by working with massive data sets to support researchers and clinicians on campus and elsewhere address scientific and medical challenges.
- The Hamon Center for Regenerative Science and Medicine, which provides new approaches to healing and regeneration, including advances in stem cell biology, tissue engineering, and organ fabrication.
- The Center for the Genetics of Host Defense, which advances the fundamental understanding of the genetics of immunity to aid in the treatment of infection, disorders of immunity, and autoimmunity.

2002

The *Innovations in Medicine* campaign launches and eventually raises more than $750 million, funding advancements in the understanding and treatment of diseases where major breakthroughs appear to be feasible in the foreseeable future.

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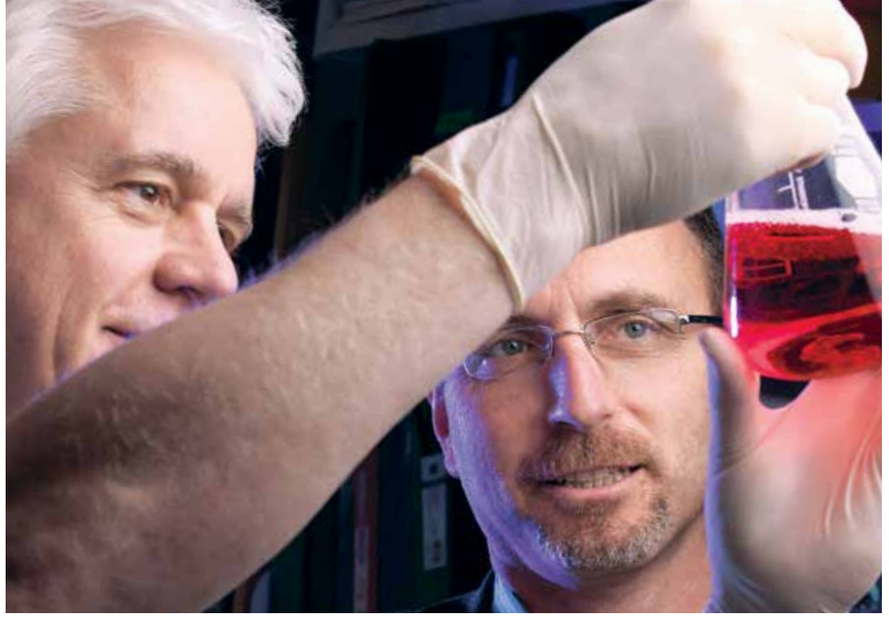

Researchers in the Hamon Center for Regenerative Science and Medicine, including Drs. Eric Olson (left) and Jay Schneider, are investigating new approaches to healing and regeneration.

2004

Dr. Linda Buck, a 1980 alumna of the Graduate School, receives the Nobel Prize in Physiology or Medicine for her work to understand the sense of smell.

In 2016, UT Southwestern and Texas Health Resources partnered to form Southwestern Health Resources with the goal of improving the health of North Texans. In coming together, the two institutions, which have a long history of collaboration in certain areas, have created an integrated clinical network of 31 hospitals and several thousand physicians.

Beyond these new clinical and research efforts, UT Southwestern has enhanced the educational experience we offer to medical students. A new Medical School curriculum,

2005

By taking over operating responsibilities for St. Paul and Zale Lipshy Hospitals, UT Southwestern lays the foundation for a University Health System.

which was launched in 2015, builds on UT Southwestern's exceptional scientific and clinical foundations to provide students with an educational experience that fully integrates basic sciences and clinical disciplines over the four years of medical school.

The curriculum will be further enhanced in the fall of 2018, when our state-of-the-art simulation center opens in a new academic and clinical building on the West Campus. Worldwide, our students have access to global health learning experiences on almost every continent, including a formal exchange program with the Université Paris Descartes.

Dr. Amit Khera (leaning), Director of UT Southwestern's Preventive Cardiology Program, meets with fellow cardiologists, including Dr. Dharam Kumbhani (standing, right).

The next 75 years

With a collective pioneering spirit that emphasizes the core values of innovation, excellence, teamwork, and compassionate care, UT Southwestern's story is a history rich in accomplishment. But even as we celebrate the past, UT Southwestern remains focused on discoveries just beyond the horizon.

Brain – Tomorrow's physician-scientists will reveal the mysteries of the brain and more, and the O'Donnell Brain Institute is leading transformative change at medicine's next frontier. For example, in the Center for Alzheimer's and Neurodegenerative Diseases, researchers have developed a new therapeutic antibody that traps pathological protein aggregates as they move between cells, leading to their clearance from the brain. This therapeutic antibody was the first of its kind in clinical trials for patients with neurodegenerative diseases.

Gene editing – Many believe a revolutionary gene-editing technique known as CRISPR is the key to new cures. Researchers in the lab of Dr. Eric Olson, Chairman of the Department of Molecular Biology and Director of the Hamon Center for Regenerative Science and Medicine, have shown that a variation of this technology called CRISPR-Cas9 can correct, in mice, the genetic mutation that leads to Duchenne muscular dystrophy.

Regenerative medicine – Researchers at UT Southwestern have identified a cell that replenishes adult heart muscle by using a new cell lineage-tracing technique. Researchers believe that by harnessing this ability, they may be able to make new heart muscle when the heart has been damaged.

Imaging – Developing the full potential of positron-emission tomography in the cyclotron facility is evidence of UT Southwestern's determination to build a world-class imaging research program and boost existing recognized strengths in biology, genetics, metabolism, and cancer research. While currently only used in clinical trials, this technology ultimately will result in more efficient patient care.

Bioinformatics – After evaluating more than 900 differences in the shape and structure of cancer cells, UT Southwestern researchers developed a computer model able to predict the deadliest lung cancers based on a fraction of those features. Algorithms such as this will someday enable physicians to individualize patient treatment based on predicted risk.

Personalized medicine – Each person's DNA is unique, providing clues about his or her health waiting to be unlocked. Using this information, faculty at UT Southwestern are identifying more effective, individualized disease treatments and pinpointing biomarkers that can aid in diagnosis or prevention.

These are just a few of the possibilities undergoing research at UT Southwestern, and the world is taking notice. In a recent visit to campus, noted geneticist and National Institutes of Health Director Dr. Francis Collins said, "The future of medicine belongs to institutions like UT Southwestern that are integrating robust basic science with the most advanced technologies available, positioning themselves to discover the treatments of tomorrow."

2008

Dr. Daniel K. Podolsky becomes the third President of UT Southwestern.

2009

Former Texas Gov. William P. Clements Jr. makes an unprecedented $100 million gift to Southwestern Medical Foundation.

2011

Dr. Bruce Beutler receives the Nobel Prize in Physiology or Medicine for discovering receptor proteins that recognize disease-causing agents and activate innate immunity – the first step in the body's immune response.

2012

UT Southwestern confers its 10,000th medical degree during Commencement, a remarkable achievement for an institution that awarded its first degrees in 1944.

2013

Planning to develop a new Medical School curriculum begins. Two years later, the Class of 2019 begins instruction under the new three-phase curriculum.

2013

Dr. Thomas Südhof receives the Nobel Prize in Physiology or Medicine for discovering key information about how cellular transport systems work.

2014

William P. Clements Jr. University Hospital opens. Every aspect is designed to enhance the patient's care and experience and to reflect the integration of UT Southwestern's missions of research, education, and clinical care.

2015

The Medical Center builds for the future by establishing the Peter O'Donnell Jr. Brain Institute and the Lyda Hill Department of Bioinformatics.

2015

The National Cancer Institute designates the Harold C. Simmons Cancer Center as a Comprehensive Cancer Center.

NCI Designated Comprehensive Cancer Center

Join the celebration

We invite you to join us in honoring the foundational growth of the past, looking ahead to the robust initiatives of the future, and recognizing the many UT Southwestern contributions that have changed the course of science and medicine. Already, the campus is emblazoned with signage commemorating UT Southwestern's 75th anniversary. The Medical District is now decorated with anniversary billboards, while faculty, employees, and students are donning buttons and badge reels with our signature anniversary logo to wear throughout the year. Later this spring, faculty and employees will receive an anniversary T-shirt, while everyone can pick up 75th anniversary swag at shop.utsouthwestern.edu.

In the coming months, UT Southwestern will celebrate the accomplishments of the first – and the promise of the next – 75 years with events big and small. In May, we will mark the official anniversary with a campus celebration on Seldin Plaza. The anniversary year will conclude with a two-day signature event in late fall: The first evening, UT Southwestern's friends and faculty will be treated to a future-focused program, followed by a hands-on, science-based experience. The next day, we will invite families and children of all ages to experience a UT Southwestern version of the future of academic medicine.

Every department is encouraged to integrate the 75th anniversary into its 2018 planning by weaving the anniversary into existing programs and events, or by creating something unique. These departmental

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activities will complement a full year of celebration that is being planned at the institutional level by a faculty steering committee, working in collaboration with the Employee Advisory Council.

There are many ways to be part of the celebration. No matter where you are, you can visit 75.utsouthwestern.edu to learn about the connections between the discoveries of yesterday and tomorrow's breakthroughs. New stories and videos will be posted throughout the year.

We hope that you will share your own memories of UT Southwestern on our website or on social media (#UTSW75). If you're an alumnus, you can reconnect with our new email newsletters and at anniversary events across Texas. To get involved or learn more about anniversary activities, contact 75years@utsouthwestern.edu.

UT Southwestern has had a major impact on science and medicine through education, research, and patient care over the past 75 years. So whether you're on campus, in North Texas, or halfway around the world, we hope you'll join us in celebrating 75 years of the future of medicine, today.

Clements University Hospital is scheduled to complete a 650,000-square-foot expansion in 2020.

2015

Dr. Helen Hobbs receives the international Breakthrough Prize in Life Sciences for discoveries showing how certain genes predispose people to heart attacks and other genes offer protection from heart disease.

2016

The newly opened cryo-electron microscope facility features a unique collection of instruments that researchers can use to view 3-D images of objects as tiny as an atom.

2016

UT Southwestern and Texas Health Resources launch Southwestern Health Resources, a clinically integrated health care network.

2017

UT Southwestern breaks ground on a 650,000-square-foot expansion of Clements University Hospital, highlighting 75 years of the Medical Center's existence while signaling its commitment to delivering the future of medicine for generations to come.

2018

The new academic and clinical building on the West Campus will be completed, underscoring an exciting year of continued expansion, exploration, and excellence for the Medical Center.

With appreciation to our community

Throughout our first 75 years, UT Southwestern Medical Center has enjoyed strong support from the North Texas community and beyond.

Whether it was assistance in building modern patient care facilities, laboratories, and classrooms; starting new programs critical to the health of our region; attracting outstanding faculty to train the next generation of health care professionals; securing the most advanced technology to generate breakthrough discoveries; funding needed patient care initiatives to improve our community's health; or generating interest in UT Southwestern from citizens and elected officials throughout the region and the state, our community has been there for us. As we have been there for you.

We are deeply appreciative of your support and grateful for the confidence you have shown in us over the years. You have helped make daring visions and bold dreams a reality and positioned Texas as a leader in health care.

Together, we have fulfilled an important need in our community. Together, we have built the future of medicine today. Together, we will advance the cause of medicine even further in our next 75 years. Together.

Thank you for your support.

Endowments and Chairs

Several UT Southwestern faculty members mentioned in this historical review hold endowed chairs that were funded by generous support from individuals or foundations in our community. These faculty members and the endowed chairs they hold are:

Dr. Carlos Arteaga
Endowed Title: The Lisa K. Simmons Distinguished Chair in Comprehensive Oncology

Dr. Bruce Beutler
Endowed Title: Raymond and Ellen Willie Distinguished Chair in Cancer Research, in Honor of Laverne and Raymond Willie, Sr.

Dr. Michael Brown
Endowed Titles: The W.A. (Monty) Moncrief Distinguished Chair in Cholesterol and Arteriosclerosis Research; Paul J. Thomas Chair in Medicine

Dr. Hak Choy
Endowed Title: The Nancy B. and Jake L. Hamon Distinguished Chair in Therapeutic Oncology Research

Dr. Johann Deisenhofer
Endowed Title: Virginia and Edward Linthicum Distinguished Chair in Biomolecular Science

Dr. Joseph Goldstein
Endowed Titles: Julie and Louis A. Beecherl, Jr. Distinguished Chair in Biomedical Research; Paul J. Thomas Chair in Medicine

Dr. Helen Hobbs
Endowed Titles: 1995 Dallas Heart Ball Chair in Cardiology Research; Eugene McDermott Distinguished Chair for the Study of Human Growth and Development; Philip O'Bryan Montgomery Jr., M.D., Distinguished Chair in Developmental Biology

Dr. Amit Khera
Endowed Title: Dallas Heart Ball Chair in Hypertension and Heart Disease

Dr. Eric Olson
Endowed Titles: Annie and Willie Nelson Professorship in Stem Cell Research; Pogue Distinguished Chair in Research on Cardiac Birth Defects; Robert A. Welch Distinguished Chair in Science

Dr. Daniel K. Podolsky
Endowed Titles: Philip O'Bryan Montgomery, Jr., M.D. Distinguished Presidential Chair in Academic Administration; Doris and Bryan Wildenthal Distinguished Chair in Medical Science

Dr. Jay Schneider
Endowed Title: Dallas Heart Ball Chair in Cardiac Research

Dr. Donald Seldin
Endowed Title: William Buchanan Chair in Internal Medicine

Dr. Kern Wildenthal
Endowed Title: President Emeritus/Professor Emeritus

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