

A CELEBRATION OF

DOUBT THERE ARE GENIUSES AMONG US THERE CLENTING ENTERPRISE AT THE END OF MORE THAN SIFTED INDIVIDUALS WORKING EQUIRES SO MUCH ER THE GREAT POWERS OF THIS INSTITUTION IN WAYS OGETHER BEFORE MORE COMPASSIONATE - RISING TO MEE MEMORY OF OUR COLLEAGUES WHO DEVOTED THEM CAREER THEIR OWN LIVES TO THE DISEASE. REALMENT AND RESEARCH OF CANCER VENTS, AND DUB CHILDREN, WE CONT

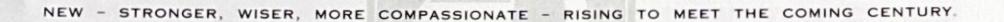
ITHOUT DOUBT, THERE ARE GENIUSES AMONG US - THERE ALWAYS

HAVE BEEN AT JOHNS HOPKINS. BUT, THE SCIENTIFIC ENTERPRISE AT THE END OF THE TWENTIETH

CENTURY REQUIRES SO MUCH MORE THAN GIFTED INDIVIDUALS WORKING IN

ISOLATION. & AND SO, AS WE GATHER THE GREAT POWERS OF THIS INSTITUTION IN WAYS

THEY HAVE NEVER BEEN BROUGHT TOGETHER BEFORE, WE BECOME SOMETHING



& THIS BOOK IS DEDICATED TO THE MEMORY OF OUR COLLEAGUES WHO DEVOTED THEIR CAREERS

TO THE TREATMENT AND RESEARCH OF CANCER AND LOST THEIR OWN LIVES TO THE DISEASE.

FOR THEM, OUR PATIENTS, AND OUR CHILDREN, WE CONTINUE TO FIGHT.

MARSHALL, JR. PROFESSOR OF ONCOLOGY FREEDOM TO EXPLORE NOVEL IDEAS, CONTINUE THE SCREENING TESTS." MARTIN ABELOFF, M.D., CONSIDERS THE SUCCESSES VOYAGE WITH US.



OF THE LAST 25 YEARS THE FOUNDATION OF

REDEFINE IT," HE SAYS.

INNOVATION. THAT REMAINS UNCHANGED TODAY. IT LONG ROAD AHEAD OF US. BUT, THERE ARE GREAT PROMISES TO HOLD TRUE IN THE FUTURE. IS EXCITING TO SEE THE NUMBER OF FACULTY AND OPPORTUNITIES AHEAD. TWENTY-FIVE YEARS AGO, STAFF THAT HAVE BEEN WITH US THROUGHOUT WE COULD NOT HAVE ENVISIONED AN OUTPATIENT MUCH OF THIS 25-YEAR JOURNEY, AND THOSE WHO BONE MARROW TRANSPLANT, THERE WAS NO CON-HAVE JOINED US MORE RECENTLY, IMPRESSED BY CERTED EFFORT IN COUNSELING CANCER PATIENTS,

ENTER DIRECTOR AND ELI KENNERLY THIS DEDICATION AND COMMITMENT AND THE THERE WAS NO TALK OF GENE THERAPY OR GENETIC

WHILE THE ADVANCED WORK WE ARE & "WE ARE LEADERS IN THE NATIONAL DOING TODAY MAKES THE WORK OF 25 YEARS AGO THE EXCELLENT TREATMENT AND RESEARCH CANCER PROGRAM. OUR VAST ACCOMPLISHMENTS LOOK PRIMITIVE, IT, TOO, WILL SEEM PRIMITIVE TAKING PLACE IN THE ONCOLOGY CENTER HAVE EARNED US WIDESPREAD PRAISE, BUT THEY WHEN WE LOOK BACK 25 YEARS FROM NOW. TODAY. "IN 1973, WE HELPED DEFINE THE ALSO BRING US GREAT RESPONSIBILITY. THE REST "IT IS A CONTINUING, EVER-CHANGING PROCESS," FIELD OF ONCOLOGY. TODAY, WE ARE HELPING TO OF THE CANCER WORLD LOOKS TO US FOR DIREC- SAYS DR. ABELOFF. "AS COMPLICATED AND COMPLEX TION," DR. ABELOFF SAYS. "THERE IS NO QUESTION AS THIS RESEARCH IS, SO PURELY SIMPLE IS ITS A "EARLY ON, WE HAD A UNIQUE VISION THAT WE HAVE A CHALLENGE BEFORE US. WE HAVE PURPOSE. IT IS ALL FOR THE PATIENT AND WE OF WHAT A CANCER CENTER SHOULD BE. ITS NOT ELIMINATED CANCER, SO WE ARE WELL AWARE MUST NEVER LOSE SIGHT OF THAT." THIS PURPOSE HALLMARKS WERE COLLABORATIVE SCIENCE AND THAT AS FAR AS WE'VE COME, WE STILL HAVE A HAS REMAINED UNCHANGED OVER 25 YEARS AND

"Our new clinical and research facilities now under construction symbolize a new era in cancer treatment and research. The task before us cannot be understated. What we have learned in the laboratory over the past 25 years must be translated to prevention, diagnosis and treatment strategies if they are to have a real impact."

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MARTIN D. ABELOFF, M.D.
DIRECTOR
THE JOHNS HOPKINS
ONCOLOGY CENTER

"By the late 1970s and early 1980s, we began to dissect the genetics of cancer by working with DNA, RNA and the proteins encoded from these nucleic acids."

STEPHEN BAYLIN, M.D.
LUDWIG PROFESSOR
FOR CANCER RESEARCH
IN ONCOLOGY

ANCER IS AN INCREDIBLY COMPLEX COMPLICATED IT WAS WHEN WE BEGAN THE EXPLO- INSTITUTION FOR THE STUDY OF MOLECULAR RATION INTO ITS MOLECULAR ORIGINS 25 YEARS GENETICS. OUR STUDIES HAVE SERVED AS THE AGO," SAYS STEPHEN BAYLIN, M.D., LUDWIG CLASSIC MODELS FOR DECIPHERING THE MYSTERY PROFESSOR FOR CANCER RESEARCH IN ONCOLOGY. OF THE CANCER CELL. IT BEGAN WITH THE IDENTI-STILL, HE IS AMAZED AT HOW MUCH WE HAVE FICATION OF A SERIES OF GENETIC MUTATIONS AND LEARNED ABOUT THE CANCER CELL.

EARLY YEARS - UNDERSTANDING HOW BONE AS WELL AS NEW MECHANISMS, SUCH AS DNA

RESEARCH ON THE BIOLOGY OF THE CANCER CELL ITSELF, HAD ONLY JUST BEGUN.

ALTERATIONS THAT WERE FOUND TO INITIATE AND THE RESEARCH SUCCESSES OF THE THEN FACILITATE THE PROGRESSION OF CANCER MARROW REGENERATES AND THE METHYLATION. THE GREATEST HEADWAY HAS BEEN DEVELOPMENT OF BONE MARROW IN COLON CANCER, WITH GENETIC FINDINGS DIRECT CLINICAL APPLICATIONS. BASIC SCIENCE THROUGH TESTING AND COUNSELING.

THINGS IN PREVENTION THAT HAVE NEVER BEEN OF THIS DISEASE IS THE REAL CHALLENGE," HE SAYS.

A TODAY, OUR CENTER IS RECOGNIZED AS TRIED BEFORE," SAYS DR. BAYLIN. IN FACT, THE DISEASE. I DON'T THINK ANYONE REALIZED HOW A PIONEER IN CANCER BIOLOGY AND A PREMIER STUDY OF AGENTS SUCH AS RETINOIC ACID THAT CAUSE PRECANCEROUS CELLS TO GO DORMANT, ARE PROVIDING REAL HOPE THAT CANCER COULD ONE DAY BE A PREVENTABLE DISEASE.

> THE ADVANTAGES OF THIS RESEARCH CANNOT BE UNDERSTATED, BUT WE MUST ALSO BE CAUTIOUS, I THINK IN EVERY ERA IN WHICH CANCER HAS BEEN STUDIED, WE GET TO A POINT WHERE WE THINK, THIS IS IT, WE'VE SOLVED THE MYSTERY. UNEQUIVOCALLY, THE RECENT PHASE OF MOLECULAR STUDY HAS SHED MORE LIGHT ON THE DISEASE THAN TRANSPLANTATION - HAS HAD ALREADY BENEFITING HIGH-RISK FAMILIES ANY RESEARCH BEFORE IT. THIS IS JUST ONE STEP, HOW-EVER. MAKING THE TRANSITION FROM UNDERSTAND-TWE HAVE THE OPPORTUNITY TO DO ING THE DISEASE TO ACTUALLY CHANGING THE COURSE

HEALING THE YOUNGEST OF THOSE WITH CANCER

LITTLE OPPORTUNITY TO SAVE THE LIFE OF A CHILD HANDFUL OF PHYSICIANS AROUND THE COUNTRY WITH CANCER. NEARLY 70 PERCENT OF CHILDREN WHO SPECIALIZES IN RECOGNIZING, TREATING, AND

DECADE HAS MEANT NOT ONLY GREATER CURE WILL DO IN THE LONG RUN AS A RESULT OF TREAT-RATES FOR CHILDREN WITH CANCER, BUT A DIFFER- MENT. A CURE IS NOT JUST GETTING RID OF ENCE IN HOW THEY LIVE.

A IN THE 1970S, EVEN THOSE CHILDREN AGAIN," SAYS DR. SCHWARTZ. WHO DID SURVIVE TOO OFTEN FELL VICTIM TO THE DIRECTS THE CENTER'S NOVEL, LONG-TERM UNITS, A FELLOWSHIP PROGRAM TO TRAIN THE NEXT PEDIATRIC ONCOLOGY.

DIAGNOSED WITH CANCER DIED FROM PREVENTING LONG-TERM MEDICAL PROBLEMS IS TRUE - APPROXIMATELY ONE IN "TODAY, WE CAN'T THINK OF TREATMENTS JUST EVERY THOUSAND U.S. CITIZENS IS IN TERMS OF WHETHER THEY MAKE THE DISEASE GO A SURVIVOR OF CHILDHOOD CANCER. BUT, THE LAST AWAY. WE ALSO MUST CONSIDER HOW THE CHILD

WENTY-FIVE YEARS AGO, THERE WAS SURVIVORS PROGRAM. SHE IS ONE OF JUST A GENERATION OF PEDIATRIC ONCOLOGISTS, AND A WORLD-RENOWNED PEDIATRIC ONCOLOGY BONE MARROW TRANSPLANT CENTER, PEDIATRIC ONCOLOGY RESEARCHERS HAVE ISOLATED VITAL BLOOD THEIR DISEASE. TODAY, THE OPPOSITE ASSOCIATED WITH CHILDHOOD CANCER THERAPIES. AND MARROW-FORMING STEM CELLS, HELPED TO DECIPHER THE GENETIC PATHWAYS THAT INFLUENCE CANCER, AND TEASED OUT SUBTLE BUT IMPORTANT DIFFERENCES WITHIN KNOWN TYPES OF CHILDHOOD MALIGNANCIES.

A "PATIENTS WHO WOULD HAVE BEEN DISEASE, BUT MAKING A CHILD REALLY WELL HOSPITALIZED FOR MORE THAN A MONTH CAN NOW "POP" IN TO THE HOSPITAL, AND RECEIVE A THE PEDIATRIC ONCOLOGY DIVISION THEIR TREATMENTS OVER A WEEKEND AND RETURN VERY TREATMENTS THAT SAVED THEIR LIVES, HAS EVOLVED FROM A FACULTY OF TWO, WITH HOME TO FAMILY, FRIENDS, AND SCHOOL. WE SUFFERING LIFELONG DISABILITIES FROM THE TOXIC PATIENTS ALL OVER THE HOSPITAL, TO AN EIGHT- CHERISH OUR CHILDREN AND BELIEVE THAT EVERY THERAPIES THEY RECEIVED. "CURING CHILDREN OF FACULTY TEAM WITH SPECIALIZED NURSES, SOCIAL CHILD SHOULD HAVE A FULL OPPORTUNITY," CANCER IS ONLY PART OF A PEDIATRIC ONCOLO- WORKERS, AND PHYSICIAN ASSISTANTS. IN ADDITION, SAYS CURT CIVIN, M.D., DIRECTOR OF PEDIATRIC GIST'S JOB," SAYS CINDY SCHWARTZ, M.D., WHO THERE ARE DEDICATED INPATIENT AND OUTPATIENT ONCOLOGY AND THE KING FAHD PROFESSOR OF

"Pediatric cancers are different from adult cancers. They do not seem to be the result of carcinogens or years of accumulated mutations, so we may never be able to prevent them. Our goal is to be able to cure 100 percent of the patients who come to us, and our job won't be done until we do." CURT CIVIN, M.D. DIRECTOR, DIVISION OF PEDIATRIC ONCOLOGY

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"We have an environment here where nurses have the knowledge and skills necessary to assure excellence in care, and the empathy needed to comfort people with cancer and their families."

CONNIE ZIEGFELD, R.N., M.S.
ASSISTANT DIRECTOR OF
ONCOLOGY NURSING

CANCER CARE AT JOHNS HOPKINS DURING THE LAST THE LEGACY OF LINDA ARENTH, THE CENTER'S 25 YEARS, BUT ONE THING THAT HAS REMAINED FIRST DIRECTOR OF NURSING, WHO SADLY DIED OF SOCIAL WORK, COUNSELING, AND OTHER PATIENT AND A CONSTANT IS THE HIGH LEVEL OF NURSING CARE BREAST CANCER IN 1992, "LINDA, LIKE MANY OF FAMILY SERVICES INTO THE TREATMENT PLAN TO BE PROVIDED TO ONCOLOGY PATIENTS. IT IS A MODEL THE ONCOLOGY CENTER'S ORIGINAL CLINICIANS, AMONG THE MOST SIGNIFICANT IMPROVEMENTS IN FOR THE REST OF THE NATION, WITH NURSES AND HAD A FORWARD-THINKING VISION," SAYS CURRENT PATIENT CARE DURING THE LAST 25 YEARS. NURSING STUDENTS FREQUENTLY TRAVELING TO OUR ONCOLOGY NURSING DIRECTOR SHARON KRUMM, Ph.D.

CENTER TO OBSERVE AND TRAIN WITH

Y THINGS HAVE CHANGED IN A NURSE." THE CENTER'S NURSING EXCELLENCE IS AND MORE COST-EFFECTIVE," SAYS ZIEGFELD.

& SHE CONSIDERS THE INCLUSION OF

& "ONE OF THE MOST EXCITING THINGS & THE INPATIENT/OUTPATIENT (IPOP) FOR ME TODAY, AND I OFTEN TELL THIS TO YOUNG OUR EXCEPTIONAL STAFF. THE FIRST BONE MARROW TRANSPLANTATION PROGRAM IS NURSES JUST BEGINNING THEIR CAREERS, IS THAT I NURSING UNIT AT HOPKINS TO RECRUIT ONE OF THE CENTER'S MOST INNOVATIVE CLINICAL HAVE WITNESSED THE FRUITS OF OUR EARLIER A PSYCHIATRIC LIAISON NURSE AND ENDEAVORS OF RECENT YEARS. MOVING ONE OF WORK, I REMEMBER CLEARLY WHEN HODGKIN'S NURSE RESEARCHER WAS IN THE ONCOLOGY CENTER. ONCOLOGY'S MOST INTENSIVE THERAPIES TO A DISEASE AND TESTICULAR CANCER WERE OFTEN "THIS WAS VIRTUALLY UNHEARD OF AT THE TIME," LARGELY OUTPATIENT PROCEDURE, IPOP WAS FATAL DISEASES, NOW, THESE DISEASES ARE OFTEN RECALLS CONNIE ZIEGFELD, R.N., M.S., ASSISTANT CO-DEVELOPED AND IS PRIMARILY MANAGED BY CURABLE. I ENVISION THE DAY WHEN THE SAME DIRECTOR OF ONCOLOGY NURSING. "KNOWLEDGE AND NURSES. "WE REALIZED EARLY ON THAT WE MUST WILL BE TRUE FOR OTHER TYPES OF CANCERS. AND TECHNIQUES OF ONCOLOGY NURSING HAVE BEEN ALWAYS BE THINKING ABOUT HOW WE CAN MAKE I KNOW OUR NURSES WILL BE AN IMPORTANT PART REFINED AND FOCUSED IN THE 23 YEARS I HAVE BEEN CANCER THERAPY MORE TOLERABLE FOR PATIENTS OF THAT PROGRESSION," SAYS ZIEGFELD.

TEAM IN 1975, THERE WERE NO FAX MACHINES AND BUT, WE HAVE HAD PROMISING RESULTS WITH OUR THE LEADING HOSPITAL IN THE COUNTRY AND OUR



CINE, REVIEWING PATIENT X-RAYS PRAISE," SAYS DR. ETTINGER.

DAVID ETTINGER, M.D., ASSOCIATE DIRECTOR FOR INNOVATIVE. THAT IS WHY WE ATTRACT SO MANY

OF NEW DRUGS. YET THESE TRIALS LED TO TWO OF AMAZING PLACE OF HEALING AND DISCOVERY. THE MOST PROMISING NEW ANTICANCER AGENTS -GENE THERAPY TRIALS WAS MET WITH A SIMILAR PROGRAMS OF RESEARCH EXCELLENCE) GRANTS. FOR WOULD WORK IN COLLABORATION," HE SAYS.

TIONS FROM AS FAR AWAY AS SINGAPORE," SAYS ALWAYS SUPPORT AND ENCOURAGEMENT TO BE COUNTRY," HE SAYS.

LACK OF ENTHUSIASM. "NO ONE THOUGHT IT WOULD FIVE CONSECUTIVE YEARS, U.S. NEWS & WORLD REPORT

HEN I JOINED THE ONCOLOGY WORK, AND THERE ARE SOME WHO STILL DON'T. HAS RANKED THE JOHNS HOPKINS HOSPITAL AS NO COMPUTERS. TODAY, WE PRACTICE TELEMEDI- TRIALS AND HAVE BEEN THE RECIPIENTS OF HIGH ONCOLOGY CENTER AMONG THE TOP FIVE IN THE NATION. AS A MEMBER OF THE NATIONAL AND CAT SCANS SENT TO US VIA . "THAT IS WHAT IS SO SPECIAL ABOUT COMPREHENSIVE CANCER NETWORK, WE HELP SET SOPHISTICATED COMPUTER CONNEC- THE ONCOLOGY CENTER AT HOPKINS. THERE IS THE STANDARDS OF CANCER CARE FOR THE ENTIRE

A TRANSLATIONAL RESEARCH, WHERE CLINICAL AFFAIRS AND PROFESSOR OF ONCOLOGY. GIFTED CLINICIANS AND RESEARCHERS AND WHY SO LABORATORY DISCOVERIES ARE QUICKLY TRANS-MANY FOUND IT LAUGHABLE WHEN, IN MANY OF THEM HAVE MADE THEIR CAREERS HERE," FERRED TO THE BEDSIDE, IS A HALLMARK OF THE EARLY YEARS, HE OBTAINED A GRANT FROM THE HE SAYS. "WE SAY IT SO MUCH THAT I THINK WE ONCOLOGY AT JOHNS HOPKINS. "WHEN OUR EXISTING NATIONAL CANCER INSTITUTE FOR PHASE 1 TRIALS TAKE IT FOR GRANTED, BUT THIS TRULY IS AN CENTER WAS CONSTRUCTED IN 1977 WITH PATIENT UNITS AND LABORATORIES ADJACENT TO ONE * "WE ARE THE ONLY CANCER CENTER IN ANOTHER, IT WAS CONSIDERED A NOVEL APPROACH. PACLITAXEL AND TOPOTECAN. THE DISCUSSION OF THE COUNTRY WITH THREE SPORE (SPECIALIZED HOWEVER, IT ENSURED THAT OUR RESEARCHERS

"When our first patients came here, they did not want their family and friends to know they had cancer.

Joday, our patients are very knowledgeable about their disease and are active participants in their care."

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DAVID ETTINGER, M.D.

ASSOCIATE DIRECTOR FOR

CLINICAL AFFAIRS AND

PROFESSOR OF ONCOLOGY

* "WE HAVE NEVER LOST SIGHT OF THE TIONS, BUT ALWAYS FOR THE BENEFIT OF THE PATIENT. THERAPEUTIC OPTIONS AND ARE ACTIVE PARTICI- WE WILL MOVE INTO A NEW CLINICAL BUILDING YOU CANNOT DO THAT IN ISOLATION," HE SAYS.

SUCCESSES HAVE BEEN, SO TOO ARE THE SOCIAL CANCER COUNSELING CENTER, PATIENT AND FAMI-ABOUT IT. THE WORD WAS TABOO. WHEN OUR FIRST THESE IMPROVEMENTS ARE AS SIGNIFICANT AS THE COMPREHENSIVE CANCER CENTER." PATIENTS CAME HERE, THEY DID NOT WANT THEIR ADVANCES IN THERAPY," HE SAYS. FAMILY AND FRIENDS TO KNOW THEY HAD CANCER.

& "TODAY, OUR PATIENTS AND THEIR AS MONUMENTAL AS THE THERAPEUTIC "WHEN I FIRST CAME TO HOPKINS, THERE WAS NO RADIATION ONCOLOGY.

& "IN 1973, THERE WAS NO SUCH THING PURPOSE OF OUR WORK. IT HAS NEVER BEEN TO FAMILIES ARE VERY KNOWLEDGEABLE ABOUT THE AS COMBINED MODALITY THERAPY. TODAY, IT IS A ADVANCE OUR COLLECTIVE OR INDIVIDUAL REPUTA- DISEASE. THEY CHALLENGE US IN REGARD TO THEIR STAPLE OF CANCER TREATMENT, AND IN A YEAR PANTS IN THEIR CARE," DR. ETTINGER SAYS. WHERE WE WILL MERGE MEDICAL, SURGICAL, AND

WE HAVE ALWAYS BEEN A LEADING ADVANCES. "I REMEMBER WHEN CANCER WAS CON- LY SERVICES, HOME CARE, OR HOSPICE. WE NOW CANCER RESEARCH AND TREATMENT FACILITY," SIDERED A SOCIAL DISGRACE. PEOPLE DIDN'T TALK TREAT THE WHOLE PATIENT, NOT JUST THE DISEASE. SAYS DR. ETTINGER. "BUT TODAY, WE TRULY ARE A

RIOR TO THE 1960S, ONCOLOGY AS A FIELD OF STUDY OR CLINICAL SPECIALTY WAS NOT REPRESENTED IN THE VAST MAJORITY OF ACADEMIC MEDICAL CENTERS. IN MOST HOSPITALS,



INCLUDING JOHNS HOPKINS, PATIENTS WERE CARED FOR BY A WIDE VARIETY OF CLINICIANS -

VERY FEW WITH A SPECIAL INTEREST OR COMPETENCE IN ONCOLOGY. & THE MEANS OF

EFFECTING THE COURSE OF THIS RELENTLESS DISEASE WERE VERY LIMITED, AND MOST

PATIENTS PRESENTED WITH ADVANCED DISEASE. IT WAS DURING THE 1960'S THAT A HANDFUL OF US

ESPOUSED A DIFFERENT VISION. & TODAY, WE HAVE MUCH OF WHICH TO BE PROUD. MANY OF OUR

FACULTY ARE ACADEMIC LEADERS IN THEIR FIELD; OUR NURSES HAVE BEEN LEADERS IN THE

DEVELOPMENT OF ONCOLOGY NURSING AS A RECOGNIZED CLINICAL SPECIALTY; AND OUR PATIENT AND

FAMILY SERVICES HAVE EARNED WIDE RECOGNITION. AS GLOWING AS OUR PAST HAS BEEN, HOWEVER,

ALBERT H. OWENS, JR., M.D.

IT IS CERTAIN TO BE A PALE REPRESENTATION OF WHAT IS TO COME." HOSPITAL TRUSTEE, DISTINGUISHED SERVICE

PROFESSOR OF ONCOLOGY AND MEDICINE.

DIRECTOR EMERITUS - THE JOHNS HOPKINS ONCOLOGY CENTER

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