



One of the first human bone marrow transplants was performed.



University and Hospital Trustees authorized construction of the Johns Hopkins Oncology Center. status, and Dr. Albert Owens was named director. The Center received NCI comprehensive cancer center designation.



The nuclear matrix was identified and revealed some of the first clues program and received an NCI grant to about the cellular mistakes that cancer cells.



Our Center became the site of the

developed drugs.

The Pediatric Oncology program was established. conduct Phase I clinical trials of newly



1977

Johns Hopkins' first cancer the Johns Hopkins Oncology Center, opened.



The Community Outreach Program advances available to cancer patients throughout Maryland, the U.S., and the world.

1978

The nurse-run screening clinic for women at high risk for breast and ovarian cancers was started.



The Neuro-oncology study group formed.



1982

program started.



refined and made safe for human use The drug was heralded as the most promising new drug in decades and became standard therapy for ovarian and lung cancers.

The CD34 antibody was discovered and made it possible to isolate and collect bone marrow stem cells.

Our researchers linked dual chromosome losses to the pediatric kidney cancer known as Wilm's tumor



1985

one of the first in the country, was established.

The Department of Patient and Family Services was established.

Radiation Oncology experts pioneered radiolabeled antibody "magic bullet" therapy for liver cancer



Dr. Martin Abeloff was named the second director of Cancer Center. He oversaw the largest expansion of Cancer Center facilities with construction of the Harry & Jeanette Weinberg clinical building, Bunting-Blaustein Cancer Research Building, and David H. Koch Cancer Research Building.

A group of breast cancer survivors raised \$2.1 million to fund what was helieved to be the first breast cancer research professorship and fellowship

The function of the p53 gene pathway was revealed



1993

SPORE grants.

leader in translational research by

earning an unprecedented three NCI

Our experts were among the first to

delivery of radiation treatment.

Radiation Oncology experts became brain surgery.

Timed sequential therapy pioneered for leukemia and obtained long-term remissions for 70 percent of patients.

Patient and Family Services opened the Joanne Rockwell Memorial House, a homeaway-from-home for patients and families traveling to the Center for treatment.



1987

Clinical trials of implantable

"Hot spots" of DNA methylation identified in human cancers and linked to genetic instability in cancer, launching the field of epigenetics.

Patient and Family Services opened the Hackerman-Patz House



1989

1997

established.

The Art of Healing Program,

incorporating art and music

"transcriptome", launching

cancer and other diseases.

the field of global gene

expression analyses in

into the Center, was

The p53 gene was isolated and marked the first in a series of genetic discoveries that helped define cancer as a genetic disease. A year later, the same team developed the first gene-based screening test.

A new drug regimen for childhood acute lymphocytic leukemia increased survival rates from 50% to 90%.



1989

Cancer immunology researchers developed GVAX, the first therapeutic cancer vaccine This work led to the development of prostate, kidney, pancreas, breast and other cancer vaccines.

Radioactive "seeds" were used to help inoperable lung cancer patients and later used for prostate cancer therapy.

Nurses designed the cancer-specific chemotherapy infusion pump.



For cancer was developed



1991

The Kimmel Cancer Center hosted its first Cancer Survivors Day celebration.

The National Familial Brain Tumor Registry was established as one of data and provides the first evidence of familial brain cancers.



1992

The Pediatric Oncology Long Term Survivors Program, one of only a few in the country, began,



1994

to cause prostate cells to turn

1995

The IPOP Center opened moving bone marrow transplant to a largely outpatient procedure

The Pediatric Bone Marrow Transplant Center opened.

Development of serial analysis of gene expression (SAGE) for global gene expression analyses



1998

The Duffey Family Pain and Palliative Care Program was established.

Researchers perform early science that leads to HPV preventative vaccines.

The Oncology Nursing Society announced the first in a series of awards given in honor of the contribution of our Cancer Center nurses. They included the Linda Arenth Excellence in Cancer Nursing Management Award, the Victoria Mock Investigator Award, and the Connie Ziegfeld Exceptional Service Award

The first prostate cancer specimen bank started



1999

The Harry and Jeanette Weinberg Building, the Cancer Center's new clinical facility, opened.

The FLT3 gene was cloned and linked to a treatment-resistant developed to target the alteration.



2000

The Bunting + Blaustein Cancer Research Building opened.

Our researchers became the first to definitively link HPV to a unique subset of oral cancers and associated it with improved prognosis.





2001

Sidney Kimmel announced a \$150 million gift to our Cancer Center. It was the largest single gift to JHU, and the center was renamed the Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins in his honor.

Basic scientists show stem cells help repair damaged tissue and organs.

The Maryland Cigarette Restitution Fund at Johns Hopkins was established and cancer education and screening.



2002

The dedication of the Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins was held.

Kimmel Cancer Center adds to its unprecedented SPORE grants earning one for its lymphoma research.

Researchers discovered the first human gene mutation in prostate cancer.

Radiation Sciences received departmental status, and Dr. Theodore DeWeese was named director.

Nursing earned the highest credentialing honor, Magnet status, an exclusive award that recognizes excellence in nursing.

The Howard-Hopkins Partnership was initiated to develop a strong national cancer program to address the significant disparity in cancer rates and survival in minority populations.



The QM-MSP test, with the ability to detect breast cancer in a tiny drop of breast fluid, was developed

Systematic analysis of gene families leads to discovery PIK3CA as one of the most highly mutated genes in human cancer

The Kimmel Cancer Center was dubbed "Cancer Research Powerhouse" with the work of its investigators the most frequently cited and said to "have had a profound influence on modern scientific thought.

Researchers re-established a half-century old method of abdominal delivery of chemotherapy to improve ovarian cancer survival rates

Breast cancer experts use a tiny catheter to where most breast cancers originate

the first genetic blueprint of human cancers, spurring genomic studies world-wide and the era of precision medicine. The Johns Hopkins Avon Foundation Breast Center opened.

2007 Half-matched bone marrow transplants were pioneered, making the potentially curative treatment available to

The David H. Koch Cancer Research Building opened.

Discovery of two gene mutations linked to most common brain cancers and longer survival.

A Kimmel Cancer Center research team revealed

almost every patient.



Dr. William Nelson was selected as the third director of Cancer Center and ushered in the era of personalized cancer medicine

Personalized test detects, measures. and monitors cancer.



2009

epigenetics research.

Investigators used personalized genome sequencing to locate a gene responsible for inherited pancreas cancer

Kimmel Cancer Center researchers The Center to Reduce Cancer Disparities was launched were selected for two highly through a partnershipwith Baltimore City and Prince competitive Stand Up 2 Cancer George's County. "dream teams" and earned multi-million dollar grants for pancreas cancer and

2010

to clinical trials

of Remembrance.

The Skip Viragh Center for Pancreas Cancer Clinical Research and PatientCare opened.

First therapies to target epigenetic alterations go

Patient and Family Services hostedthe first Service

Radiation Oncology researchers develop Oncospace, a computerized system that uses outcomes from previously treated patients to personalize and improve the care of new patients.

Kimmel Cancer Center scientists develop personalized blood tests for cancer using whole genome sequencing.



Radiation Oncology experts led the first-ever safety analysis of radiation oncology.

The D.C. campus of the Kimmel Cancer Center established at Johns Hopkins Suburban and Sibley hospitals



Researchers identified a new target and tested experimental drugs that restore the immune system's ability to snot and attack cancer cells

The genetic driver of hereditary prostate cancer identified.

Project Hope started to help cancer care providers talk refine what brings them hope.

The initiative to increase minority accrual to clinical trials launched.

The Center for Personalized Cancer Medicine was established through a gift from the Commonwealth Foundation for Cancer Research

The Lung Cancer Center of Excellence is opened at Johns Hopkins Bayview.



2013

2005

called statins are linked to

a lower risk of advanced

prostate cancer.

Dr. Bert Vogelstein was awarded an inaugural \$3 million Breakthrough Prize in Life Sciences for his landmark work in cancer genomics.

Nursing-directed Urgent Care Clinic opened.

The Kimmel Cancer Center launched electronic



Greenberg Bladder Cancer Institute launched.

Kimmel Cancer Center received \$90 million in new funding as part of a \$540 million gift from Ludwig Cancer Research.

Dense bacteria biofilms linked to colon cancer development.

Vaccine reprograms pancreatic cancers to respond to immunotherapy.

Short course of cyclophosphamide prevents a sever graft versus host disease and and eliminates need for the usual six months of immune suppression medicines

Anti-PD-1 immuntherapy halted cancer progression or shrank tumors in patients with advanced melanoma

Kimmel Cancer Center members selected for competitive Stand Up 2 Cancer Dream Team to Improve Early Detection of Colorectal Cancer



2015

Oncology at Sibley and Children's National Pediatric Cancer Center resulted in the first dedicated pediatric radiation oncology program in the National Capital Region.

Mistakes in mismatch repair genes, first identified by the Ludwig Center researchers two decades ago, shown to accurately predict who will respond to immunotherapy with anti- PD-1 drugs.

Large, international study led by Dr. Roisin Connolly evaluates epigenetic therapy for breast cancer. Stereotactic radiotherapy augments immune response in

Long-term outcomes of 1,298 men showed benefit of active

surveillance in patients with non-aggressive forms of prostate cancer.

AR-7 gene linked to aggressive, treatment resistant form of prostate cancer

pancreatic cancer patients.



The Bloomberg~Kimmel Institute for Cancer Immunotherapy launched

Mutations in mismatch repair genes found to be biomarker of response to immunotherapy. Anti-PD-1 immunotherapy shown to improve survival in non-small cell lung cancer patients: also used successfully to treat a rare type of virus-linked skin cancer, called Merkel cell carcinoma

A personalized cell therapy, called MILs, using immune cells grown from patients' own bone marrow, is used to treat multiple myeloma.

The Sidney Kimmel Cancer Center at Sibley Memorial Hospital opened adding medical oncology and surgical oncology to the already established and growing Radiation Oncology Program.

Molecular method called BEAM distinguishes between women who only need are at routine mammography from those who are a high risk and need additional preventive measures

Construction of the National Proton Therapy Center at Sibley Memorial Hospital begins.

The John Fetting Fund for Breast Cancer Prevention brings together leaders to launch research in cancer prevention and control.

CT and MRI-assisted brachytherapy used to treat gynecologic cancers.



Mismatch repair discovery leads to the first-ever FDA approval of a cancer drug based on a specific genetic profile without regard to where in the body the cancer started.

Pediatric oncology site for first CAR-T immunotherapy clinical trials.

Center to Reduce Cancer Disparities oversees increase in minority and female participation in clinical trials.

Drug that targets cellular machinery called POL1 that cancer cells rely on.

New immunotherapy drug developed to kill cancer cells by disrupting cell metabolism

Development of blood test that detects tumor-derived DNA in



Dr. Elizabeth Jaffee elected President of the American Society for Cancer Research.

Skip Viragh Outpatient Cancer Building Opens.

CancerSEEK, a single blood test that screens for eight common cancer types and helps identify the location of the cancer, developed

Participate in first large-scale study of prostate cancer in African-American men.

Anti-PD-1 immunotherapy before lung cancer surgery dramatically shrinks tumors

Higher mutational burden predicts which cancer types will respond to immunotherapy with checkpoint inhibitors.





