

Memorial Sloan-Kettering
Cancer Center

2011 Annual Report

10 steps closer



10 steps closer

Letter from the Chairman and the President 1

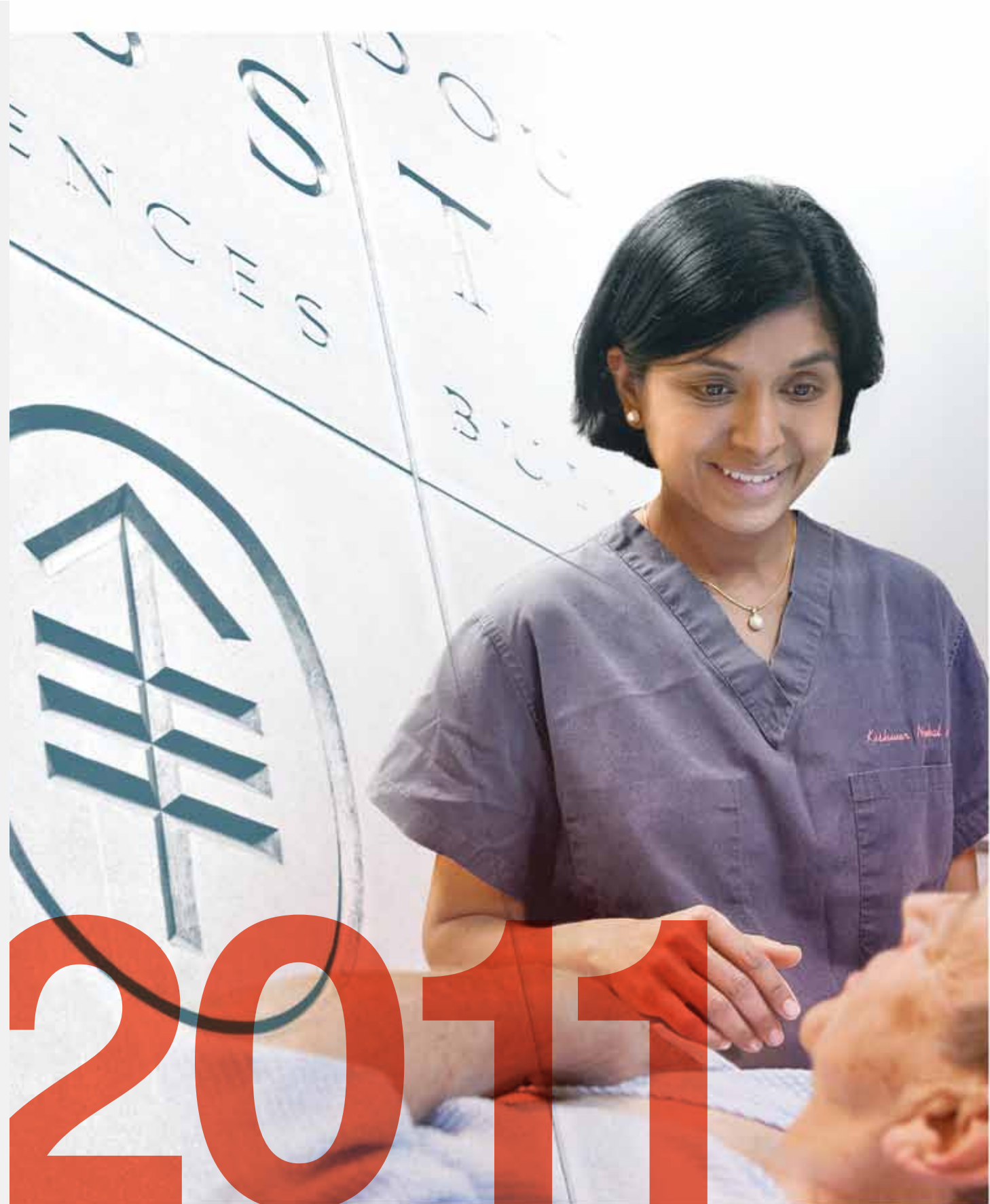
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Letter from the Chairman and the President



Douglas A. Warner III
Chairman
Boards of Overseers
and Managers



Craig B. Thompson
President and Chief
Executive Officer

The year 2011 was a strong one at Memorial Sloan-Kettering. We continued to lead across the spectrum of patient care, research, and training, and laid the groundwork for important progress in the years ahead.

We want to begin by saying that our success as an institution is due in great measure to our remarkable staff. On a daily basis, we are inspired by their dedication and compassion, and are grateful for the work they do in the service of our patients and our mission.

In 2011 MSKCC was recognized for excellence in a number of areas, several of which you will read more about in this report. But allow us to highlight a few:

A study led by Boston University and published in February in the *New England Journal of Medicine* ranked MSKCC as one of the top three public-sector research organizations in the discovery of new therapeutic products, behind the National Institutes of Health's intramural program and the ten-campus University of California. This is a remarkable achievement, especially for an institution of our size.

In 2011 we continued to break new ground in our clinical and research activities. As a result of work done by our scientists and physicians we saw several tremendous advances in new treatments — in particular for metastatic melanoma and prostate cancer. MSKCC investigators played a pivotal role in the development of three new targeted therapies, all of which received approval from the US Food and Drug Administration. They are changing the standard of care in these diseases, and you will read more about them in the following pages.

Basic science advances in 2011 were wide-ranging. Among many accomplishments, MSKCC investigators pioneered insights into stem cell biology and its implications for translational medicine; provided a deeper understanding of how DNA integrity is maintained during cell division and reproduction; and made a breakthrough toward developing a computer method to predict a protein's shape from its genetic sequence, which could speed research in cancer and other diseases. Again, you will read about these developments on the pages that follow.

As a part of the ongoing revitalization of our Manhattan campus — and with generous support from The Robertson Foundation — we announced plans to build the Memorial Sloan-Kettering Josie Robertson Surgery Center on York Avenue between East 61st and East 62nd Streets. Named in honor of the late Josephine “Josie” Robertson, who was elected to MSKCC's Board of Overseers in 2004, this new 16-story building will feature 12 operating rooms equipped to provide technologically sophisticated surgical care on an outpatient basis.

“Our success as an institution is due in great measure to our remarkable staff... We are inspired by their dedication and compassion, and are grateful for the work they do in the service of our patients and our mission.”

Phase II of the Zuckerman Research Center proceeded on schedule and the academic staff of the Louis V. Gerstner, Jr. Graduate School of Biomedical Sciences and our Computational Biology Program moved in. We anticipate the building will be completed by the winter of 2012.

In addition, we received approval to begin construction on a new regional facility in Harrison, New York. This freestanding center will join our family of ambulatory oncology centers, providing local access to MSKCC care for patients who live in Westchester County and surrounding areas.

There were three pieces of important news about collaborations with institutions beyond our walls. Along with our clinical partners — NYU Langone, Montefiore, and Mount Sinai Medical Centers and Continuum Health Partners — and our for-profit partner — 21st Century Oncology — we will develop the New York Proton Center. It will be the only proton therapy center in the city. The precision of this technology allows clinicians to safely deliver larger, more targeted — and therefore more therapeutically effective — doses of radiation to tumors.

MSKCC is also playing a key role in the development of the New York Genome Center, which will be located in lower Manhattan. We join The Rockefeller University, Weill Cornell Medical College, Columbia University, NewYork-Presbyterian Hospital, Mount Sinai Medical Center, New York University, Cold Spring Harbor Laboratories, Stony Brook University, and the Jackson Laboratories as founding members. The center will provide genome sequencing, computational, and bioinformatics support vital to all aspects of today's life sciences research — from basic to translational.



John R. Gunn
Executive Vice
President



Robert E. Wittes
Physician-in-Chief,
Memorial Hospital



Thomas J. Kelly
Director, Sloan-
Kettering Institute



James D. Robinson III
Honorary Chairman
Boards of Overseers
and Managers

And in an exciting joint undertaking with IBM, we are working to create what will ultimately be the world's most comprehensive, cancer-specific medical resource tool designed to help physicians — wherever they practice — personalize cancer therapies for their patients. Built on the IBM Watson technology, the project will combine the tremendous analytic capabilities of IBM Watson with the clinical expertise of MSKCC's physicians, along with our vast repository of cancer case histories and other data. We expect to begin training the tool with a select group of oncologists in late 2012.

We were also delighted to celebrate the awarding of doctoral degrees to the first four graduates of the Louis V. Gerstner, Jr. Graduate School of Biomedical Sciences at our Commencement and Academic Convocation on May 12, 2012. Three of the four students successfully defended their theses in 2011, and one in the spring of 2012.

During 2011 MSKCC's operating performance improved. We continue to increase our clinical volume and provide a larger portion of our clinical care in a more cost-effective outpatient setting, which has the added benefit of being more convenient for our patients. We are also pleased that the financial markets have allowed MSKCC to raise a significant amount of capital funding with favorable financial terms. This funding will be used to provide a portion of the capital necessary for our clinical expansion program.

In this year's report we have chosen to feature ten research and clinical advances of 2011. We hope these features convey the vitality and collaborative creativity of our basic science investigators and physician-scientists as they work to further the biological understanding of cancer and develop new and more-effective approaches to treatment. We invite you to read more at www.mskcc.org/annualreport.

Douglas A. Warner III
Chairman,
Boards of Overseers and Managers

Craig B. Thompson, MD
President and Chief Executive Officer



“The success story of these drugs is not the end of the story; it’s a very exciting and important beginning.”

Paul Chapman



1 | *First effective treatments for advanced melanoma*

In March 2011, the US Food and Drug Administration announced its approval of the drug ipilimumab (Yervoy™) for the treatment of patients with metastatic melanoma. It is the first drug ever shown to improve overall survival for patients with advanced melanoma.

Ipilimumab uses an approach known as immunotherapy, which exploits the body’s own immune system to attack cancer. The early development of this specific type of immunotherapy, originally known as anti-CTLA-4, was led by an MSKCC immunologist, and MSKCC researchers led preclinical and clinical studies using ipilimumab.

In August, another drug, called vemurafenib (Zelboraf®) — a therapy that targets a mutation in a gene called *BRAF*, which is present in about half of all melanomas — was also approved by the FDA for the treatment of advanced melanoma. Again, MSKCC physician-scientists led clinical and preclinical studies of the therapy and headed a large phase III clinical trial that resulted in the drug’s approval.

Then, in a study published in December, MSKCC researchers reported that they had uncovered a previously unknown mechanism by which tumors can become resistant to vemurafenib. The hope is that their findings will lead to the development of new treatments and will inform the design of next-generation drugs that are not as susceptible to this form of resistance.



“The success story
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Paul Chapman

Left page:

Medical oncologist Paul B. Chapman specializes in metastatic melanoma, treating patients in the clinic and searching for new therapies that can control and cure the disease. He focuses on developing drugs that target genetic changes in melanoma as well as testing methods to direct a patient’s immune system against melanoma cells that may remain following successful treatment. Dr. Chapman was the global principal investigator on a pivotal international, multicenter phase III clinical trial that led to FDA approval of vemurafenib for the treatment of advanced melanoma.

(Inset) David B. Solit is a physician-scientist on the Genitourinary Oncology Service in the Department of Medicine and heads his own laboratory in the Human Oncology and Pathogenesis Program. The focus of his research is the development of cancer therapies that target pathways responsible for cancer initiation and progression. Dr. Solit led the research that identified a previously unknown mechanism of resistance to vemurafenib.

Right page:

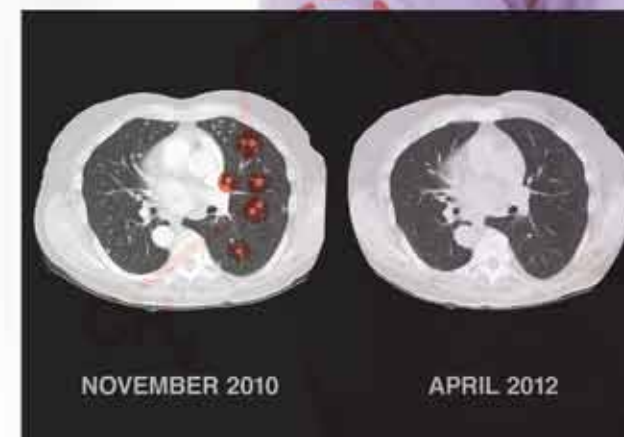
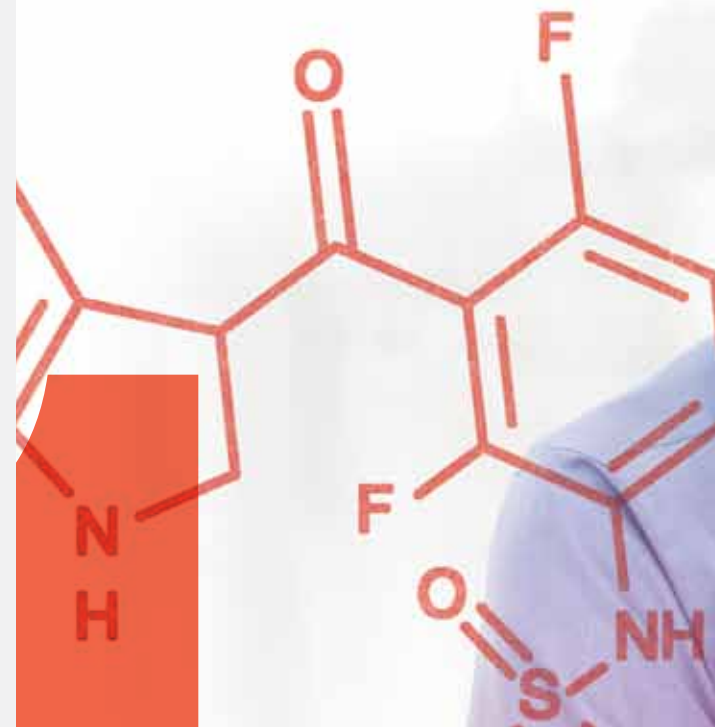
Medical oncologist Jedd D. Wolchok specializes in the treatment of melanoma and also leads the Center’s immunologic therapeutics clinical core. His research is focused on the development of innovative ways to use the immune system to treat cancer. Dr. Wolchok directed crucial clinical trials that led to FDA approval of ipilimumab. (He and Dr. Chapman were co-principal investigators on their respective clinical trials.)

(Inset, left) The lungs of a 75-year-old male with metastatic melanoma. In November 2010, before treatment with ipilimumab, melanoma tumors (indicated in red) have infiltrated the lungs of the patient. After treatment with ipilimumab the tumors have almost entirely disappeared by April 2012.

(Inset, right) James P. Allison (pictured with Jedd Wolchok) was Chair of the Sloan-Kettering Institute’s Immunology Program from 2004 to June 2012. For more than 20 years Dr. Allison’s research has focused on the mechanisms that regulate the immunological responses of T lymphocytes (T cells) with an emphasis on manipulating T cell response in order to develop novel tumor immunotherapy approaches. In 1996, he and his colleagues developed ipilimumab — originally known as anti-CTLA-4.

Background:

Chemical structure of vemurafenib.



Handwritten notes in red ink:

IP

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1-

MIL PL (-)

Gene	Percentage
BRCA1	12%
BRCA2	12%
PTEN	8%

Legend: Amplified

Left page:

Surgeon-scientist Douglas A. Levine is co-chair of TCGA Ovarian Disease Working Group. He is using knowledge gained from TCGA and other collaborative efforts to advance the understanding of the genomic basis of disease and to translate the findings into clinical benefit for patients.

Right page:

Chris Sander (left) is Chair of the Computational Biology Program in the Sloan-Kettering Institute. Marc Ladanyi (right) is a pathologist on the Molecular Diagnostics Service of the Department of Pathology and is a member in the Human Oncology and Pathogenesis Program. Together, Dr. Sander and Dr. Ladanyi are leading one of TCGA's Genome Data Analysis Centers, which is housed at Memorial Sloan-Kettering. (To read more about Dr. Sander and his work, see page 19.)

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IP

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MIL PL (-)



3 *Breast cancer surgery: practice-changing findings for some patients*

Although there has been much progress in cancer surgery over the past several decades, one practice has gone largely unchanged: For more than a century, women with breast cancer that has spread beyond the breast have been undergoing a potentially debilitating and painful procedure in which all the lymph nodes in the armpit are removed.

But a 2011 multicenter study, of which the Chief of MSKCC's Breast Service was the senior author, found that for women who meet certain criteria, the surgery, called axillary node dissection, is unnecessary and does not improve survival or reduce rates of recurrence. The majority of women who meet these criteria — about 40 percent of all breast cancer patients — have chemotherapy and/or hormone therapy such as tamoxifen, which is part of the standard treatment for breast cancer when there is any lymph node involvement.

Avoiding the removal of all their armpit nodes allows women to avoid the often severe side effects associated with the procedure. The most common is lymphedema, or swelling of the arm, which can be permanent and can greatly affect quality of life. The surgery can also lead to temporary or permanent loss of arm strength and difficulty with movement and is associated with a longer and more painful recovery after surgery. Changing the standard treatment will allow up to 40,000 women in the United States to avoid these side effects each year.





Left page:

The sentinel lymph node (in blue) is the first node to which cancer spreads when it leaves a primary breast tumor (in brown).

Breast surgeon Alexandra Heerdt (left) with surgical fellow Kshama Jaiswal.

Right page:

Monica Morrow, Chief of Memorial Sloan-Kettering's Breast Surgical Service, is a surgical oncologist who dedicates her practice to treating breast cancer. Dr. Morrow has led several large, multicenter clinical trials that have contributed to changes in the standard of care for patients with breast cancer. Her current research focuses on investigating how treatment choices for breast cancer surgery are made and on applying new technology to local breast cancer therapies. Dr. Morrow holds the Anne Burnett Windfohr Chair of Clinical Oncology and is also President of the Society of Surgical Oncology, the professional organization for surgeons who specialize in cancer treatment.





4 *New drugs offer survival benefit for men with metastatic prostate cancer*

Memorial Sloan-Kettering played a leadership role in 2011 successes in the treatment of advanced prostate cancer. These treatments are offering men and their physicians new weapons against the disease.

MSKCC researchers led an international study of abiraterone acetate (Zytiga®), and in April 2011, the US Food and Drug Administration approved this new drug in combination with the drug prednisone to treat men with a form of the disease called metastatic castration-resistant prostate cancer. Abiraterone blocks the production of male sex hormones (such as testosterone), which fuel the growth of these tumors.

An MSKCC investigator led the development of the phase I through phase III trials of an experimental drug called MDV 3100. The drug, which has since been named enzalutamide, was largely developed by an MSKCC researcher. The phase III trial was halted when enzalutamide showed a significant survival benefit, and patients on the placebo arm of the trial were offered the drug. Enzalutamide is currently under review by the FDA for a full approval while studies in men with earlier stages of the disease are ongoing.

Finally, a retrospective case control study led by MSKCC researchers showed that a prostate-specific antigen (PSA) test taken at age 60 can predict the likelihood that a man will die from prostate cancer over the next 25 years. The findings suggest 90 percent of deaths from prostate cancer occur in men with PSA levels in the top quartile, and that men with PSA below median (i.e., half of all men) may not benefit from subsequent PSA testing. A second report showed that a PSA test taken for the first time between the ages of 44 and 50 can predict the likelihood that a man will develop a prostate cancer manifesting unfavorable features at the time of diagnosis over the next 25 to 30 years. The findings suggest that more than half of men could forgo annual PSA testing and have PSA tests much less often.

www.mskcc.org/annualreport



Left page:

Howard I. Scher, Chief of the Genitourinary Oncology Service, is a medical oncologist with special expertise in treating men with prostate cancer. His research is focused on three areas: developing treatments that target specific signaling pathways that contribute to prostate cancer growth, developing noninvasive methods to select specific treatments and to determine whether they are working, and improving the way drugs are evaluated in the clinic. Dr. Scher led the phase I/II and phase III trials of enzalutamide and was a principal investigator on phase II and III trials of abiraterone acetate (Zytiga®).

Right page:

Charles L. Sawyers (top), Chair of the Human Oncology and Pathogenesis Program, investigates signaling pathways that promote the growth of cancer cells, with an eye toward designing new treatment options for patients. Dr. Sawyers's work was instrumental in the development of two drugs for the treatment of chronic myeloid leukemia, imatinib (Gleevec®) and dasatinib (Sprycel®). His current focus is on developing new treatments for patients with prostate cancer by exploring the mechanisms of resistance to hormone therapy. He and Michael Jung, Professor of Chemistry at the University of California, Los Angeles, were co-inventors of MDV 3100 (enzalutamide).

Hans G. Lilja (bottom) is a research clinical chemist with joint appointments in the Departments of Laboratory Medicine, Surgery, and Medicine. His primary research focus is on circulating tumor markers that predict the development and progression of prostate cancer, as well as the possibility that these markers play a key role in the pathogenesis of prostate cancer. Dr. Lilja was lead author of the 2011 study that suggested that more than half of men could forgo annual PSA testing and have just three PSA tests in their lifetime. The research will help physicians distinguish between those men who may benefit from regular PSA screening for prostate cancer and those men who may not need to be screened as frequently.

Background:

Molecular model of testosterone.



“Our study shows that BRCA2 not only repairs DNA damage, but also prevents DNA damage from occurring in the first place...This changes conceptually how we think about this and potentially other DNA ‘repair’ proteins.”

Maria Jasin



5 *Insights into DNA damage and repair*

When chromosomes are copied and divided properly, a parent cell gives rise to two identical daughter cells that function properly. But when DNA damage occurs, the genetic code contained on the DNA strands can become corrupted, leading to errors that change the behavior of cells and may ultimately lead to cancer. A particularly dangerous type of DNA damage is called a double-strand break, in which the two strands of the DNA double helix break in the same place, making it difficult for a cell to repair itself. One mechanism that cells use to repair such breaks is called homologous recombination. In this process, a cell finds a DNA sequence in the genome that resembles the sequence next to the break site and mends the break by copying that undamaged sequence.

In 2011 MSKCC researchers published several important studies that provided new insights into this and related biological processes that are fundamental to life — from the birth of a new cell to sexual reproduction and fertility to aging — but can lead to cancer or other conditions when it malfunctions.



“Our study shows that DNA damage, but also from occurring in the conceptually how we potentially other DNA

Maria Jasin

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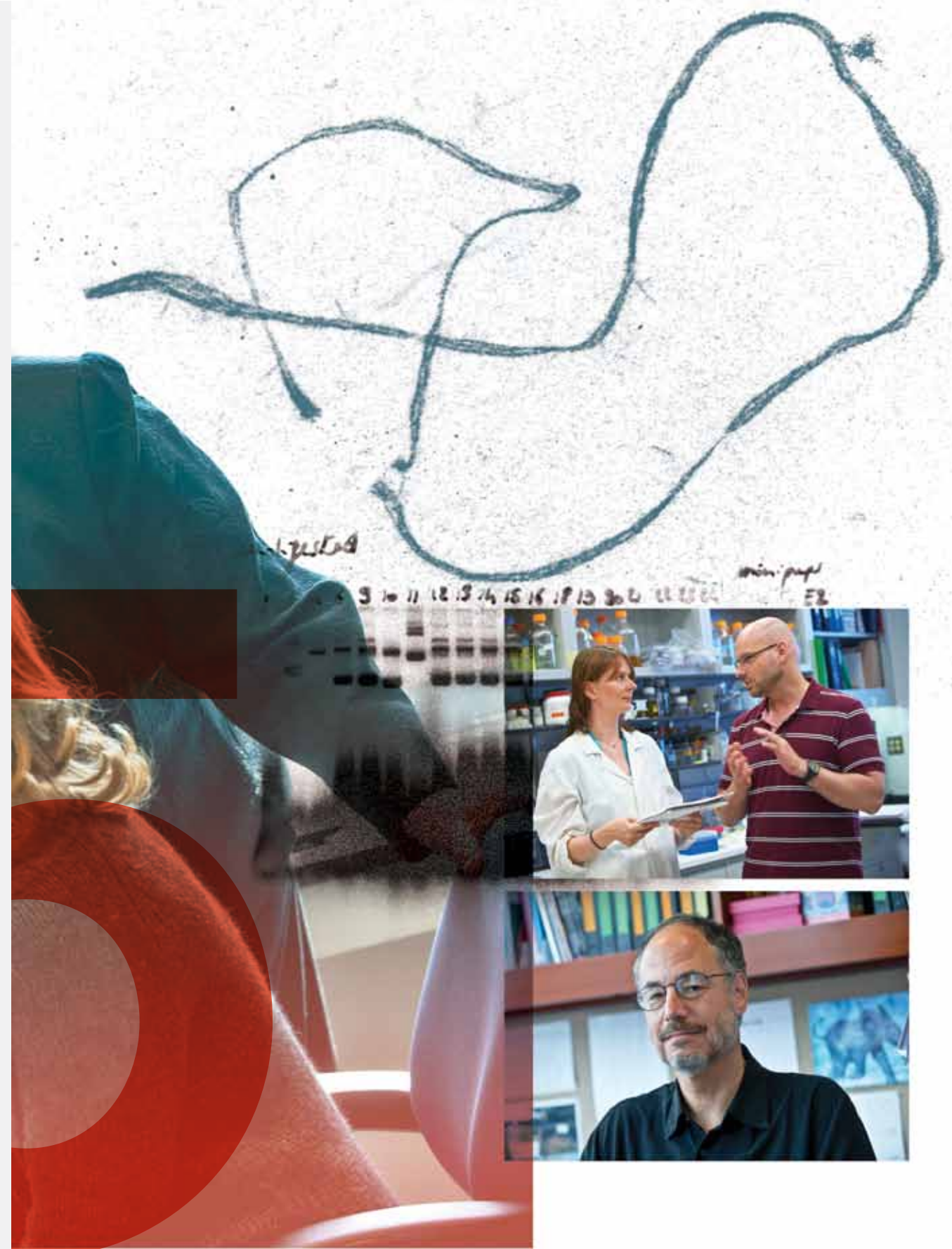
Scientist Maria Jasin (in glasses) investigates the basic mechanisms cells use to repair DNA that has been damaged. Her laboratory in the Sloan-Kettering Institute's Developmental Biology Program focuses on the repair of double-strand breaks — a type of lesion in which the two strands of a DNA molecule break in the same place — through a mechanism known as homologous recombination. Dr. Jasin was the lead investigator of three studies in 2011 that provided new understanding about this and related mechanisms, which are critical for maintaining proper cell functions and behavior. Pictured with Dr. Jasin is Deniz Simsek, formerly a graduate student in Dr. Jasin's laboratory and now a postdoctoral research fellow at the University of California, San Francisco.

Right page:

This electron microscopy image (top) shows an X and a Y chromosome from a cell undergoing meiosis, a type of cell division that leads to the formation of sperm or egg cells. One end of each chromosome is joined, as seen at the bottom of the image, at the site where DNA is exchanged between the chromosomes by homologous recombination. (Courtesy of Frédéric Baudat and Maria Jasin.)

(Middle right) Scientist Scott Keeney is a member of the Sloan-Kettering Institute's Molecular Biology Program and a Howard Hughes Medical Institute investigator. Research in his laboratory is aimed at investigating the mechanisms of homologous recombination during cell meiosis. Pictured with Dr. Keeney is postdoctoral research fellow Liisa Kauppi. She was the lead author on a study that shed new light on a process that enables the male sex chromosomes, X and Y, to line up properly during meiosis, ensuring that the integrity of the genome is maintained as new sperm cells are produced.

(Bottom right) The laboratory of Stewart Shuman, in the Sloan-Kettering Institute's Molecular Biology Program, investigates the function of enzymes called DNA ligases, among other things. DNA ligases enable cells to glue pieces of broken DNA back together, and play an important role in a number of basic cell processes including DNA repair. Dr. Shuman was a co-author on a study that revealed that one of the enzymes, called ligase III, plays a role in DNA repair within mitochondria, the cellular compartments that provide cells with energy.





“When we injected these cells into animal models, the cells not only survived but were functionally active in the brain... We are optimistic that one day this will be a viable treatment for patients.”

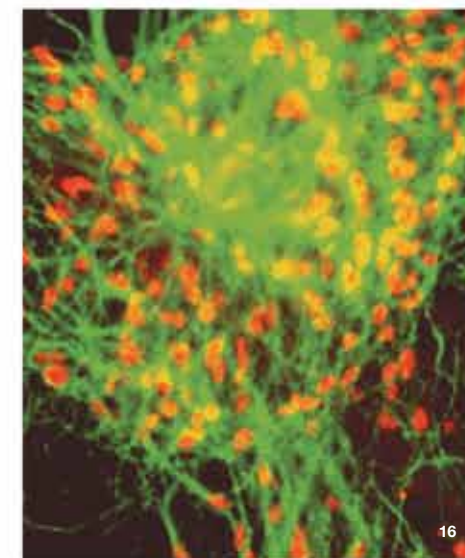
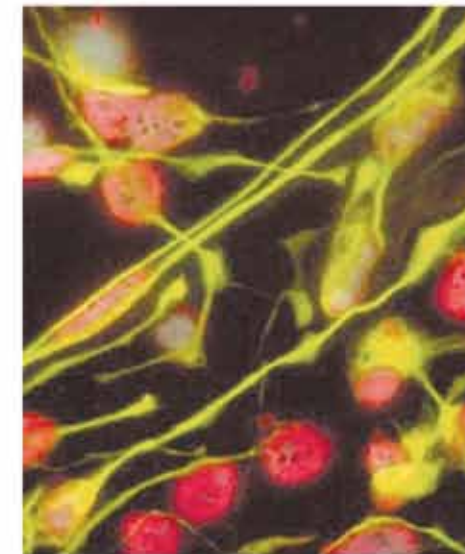
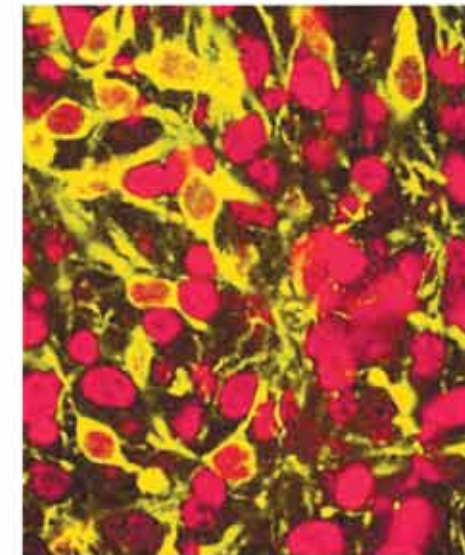
Lorenz Studer

6 | *Novel stem cell technique shows promise in treating disease*

Cell replacement therapy seeks to restore function in the body by replacing cells that are lost due to disease. In Parkinson’s disease, this means replacing dopamine cells in the brain, the main type of cell that degenerates in this disease.

In November, a team of Memorial Sloan-Kettering investigators published a study on a new strategy for using embryonic stem (ES) cells to graft human dopamine neurons into models of Parkinson’s disease. Historically, ES cells have shown the ability to become dopamine-producing neurons in a dish, but have not been effective at treating Parkinson’s disease when transplanted into a living animal. The new technique has been effective in three animal models of Parkinson’s, reflecting the potential for dopamine cells’ survival and function in the brain.

Center researchers are also investigating how ES cells might be engineered to become healthy brain cells that could replace brain cells that are injured or lost in the course of treatment for cancer — either during surgery or treatment with radiation therapy.





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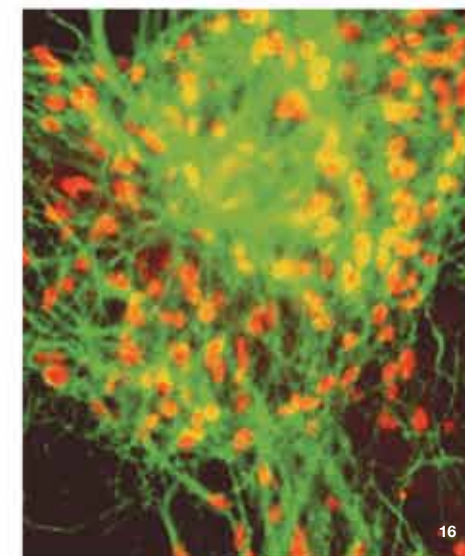
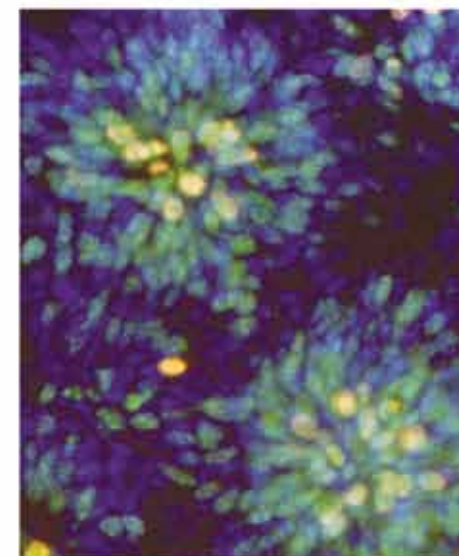
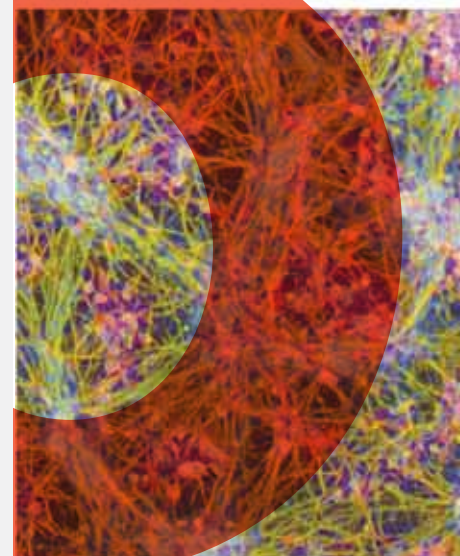
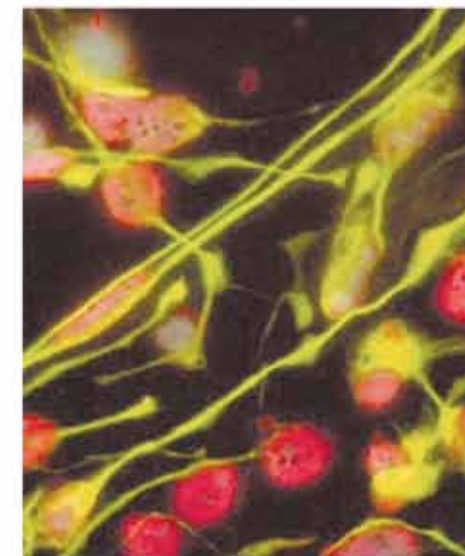
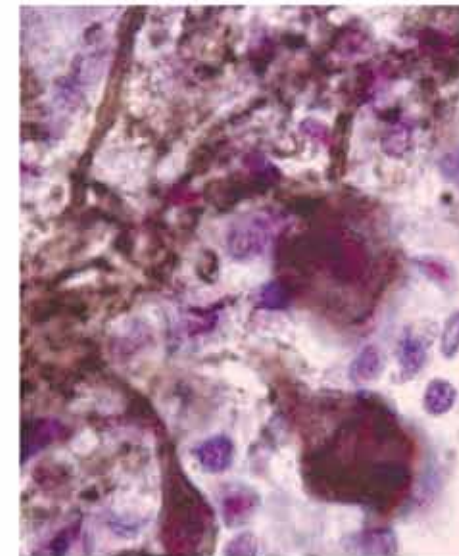
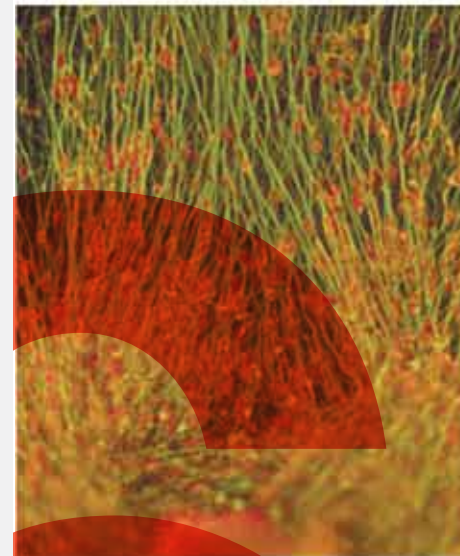
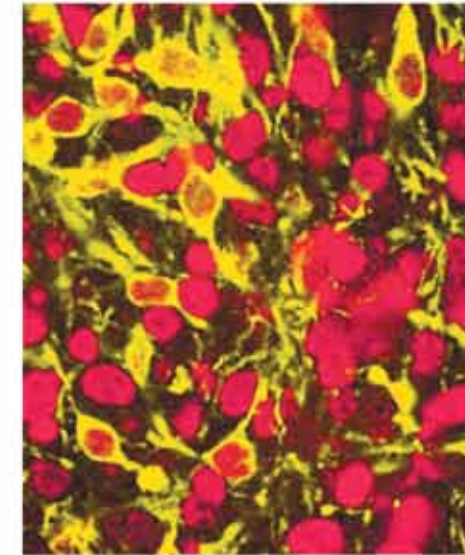
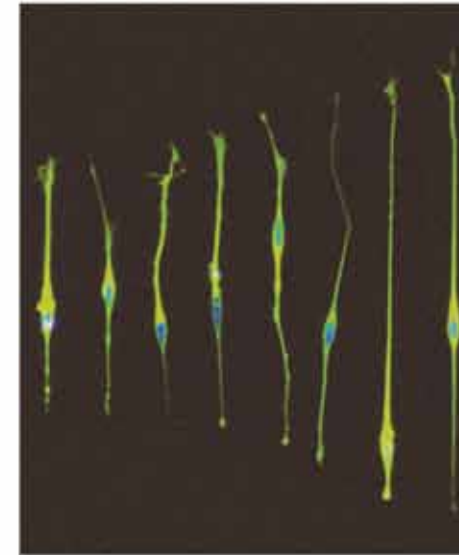
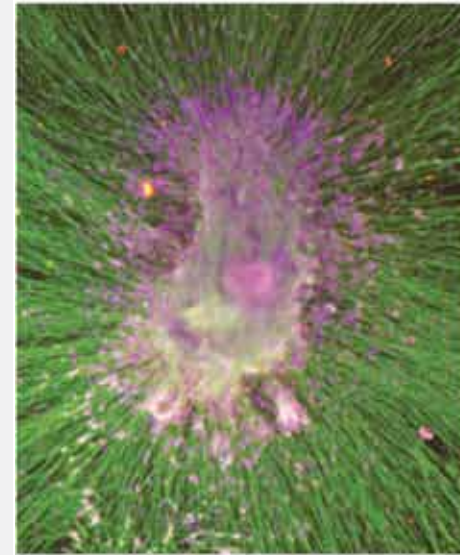
Stem cell biologist Lorenz Studer, a member of the Developmental Biology Program in the Sloan-Kettering Institute, has focused much of his research on developing potential therapies that are based on embryonic stem (ES) cells. In November 2011, Dr. Studer's team published a study in the journal *Nature* that reported a new strategy for using ES cells to graft human dopamine neurons into animal models of Parkinson's disease.

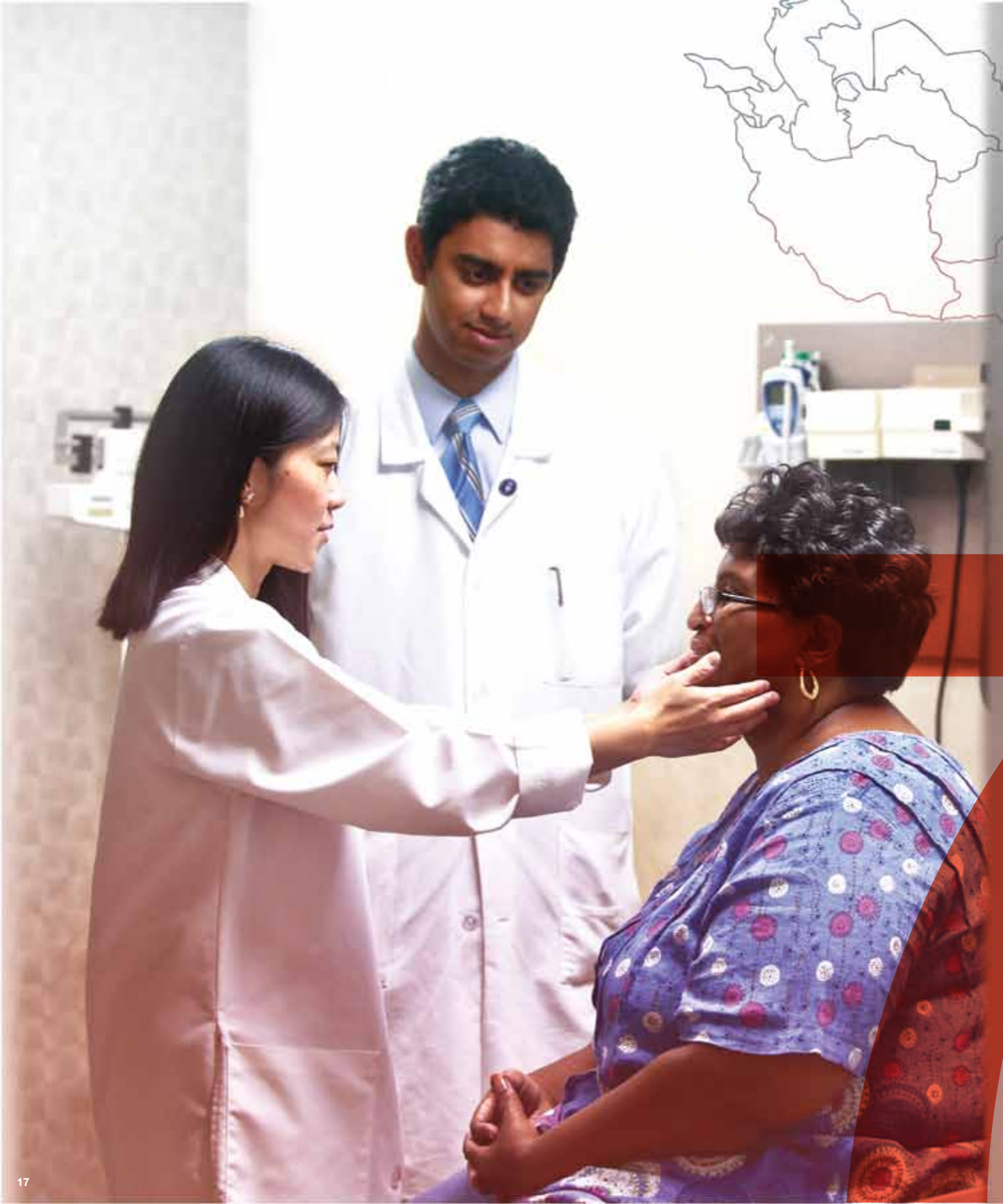
Right page:

Embryonic stem cells can be coaxed into becoming many specialized cell types of the brain and the nervous system. Such cells have great potential for applications in cell therapy and for the study of disease mechanisms, which are key areas of research in Dr. Studer's laboratory.

“When we injected
animal models, the
but were functional
We are optimistic that
a viable treatment

Lorenz Studer





7 | *Combination therapy may prevent spread of nasopharyngeal tumors*

While nasopharyngeal cancer is relatively rare in the United States, it is more widespread in other parts of the world, including Asia and North Africa. MSKCC researchers showed that people with cancer of the nasopharynx, an area behind the nose, may benefit from a new combination therapy. A team of international investigators from North America and Hong Kong, led by an MSKCC radiation oncologist, reported that adding the drug bevacizumab (Avastin®) to the current standard therapy might prevent the spread of nasopharyngeal tumors to other parts of the body, prolonging the lives of patients.



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Nancy Y. Lee (left) is a radiation oncologist with expertise in using intensity-modulated radiation therapy (IMRT) to treat patients with head and neck cancers including nasopharyngeal carcinoma and thyroid cancer. She is the principal investigator of a national clinical trial for the Radiation Therapy Oncology Group that evaluates IMRT for the treatment of nasopharyngeal cancer. She led the international study published in the *Lancet Oncology* that suggested that adding bevacizumab (Avastin®) to standard radiation therapy and chemotherapy might prevent nasopharyngeal cancer from metastasizing to other sites in the body. (In the photograph, Dr. Lee is joined by radiation oncology resident Neil B. Desai and their patient.)

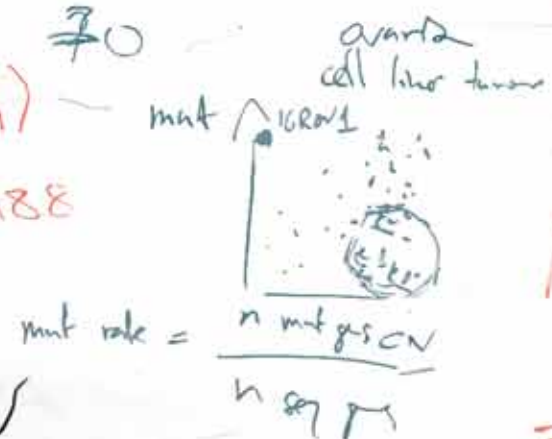


“We are hoping that this new treatment strategy might prove useful for treatment of several advanced tumors of the head and neck — not only in nasopharyngeal carcinoma.”

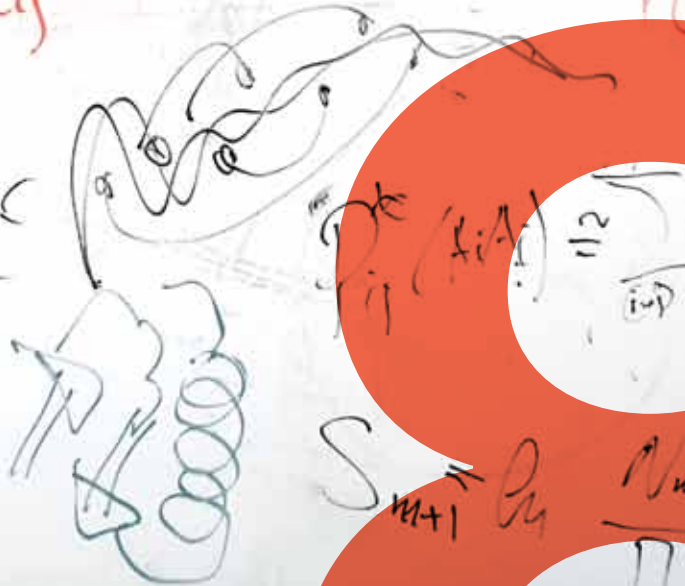
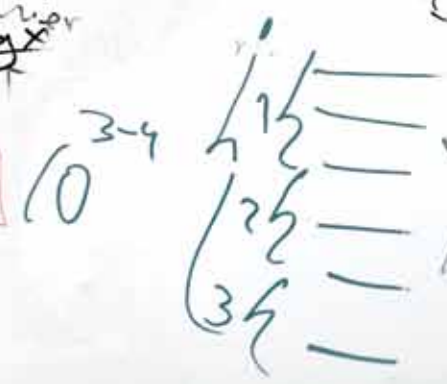
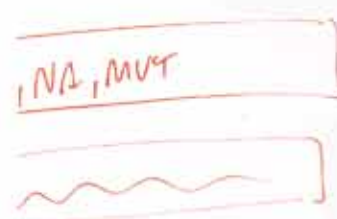
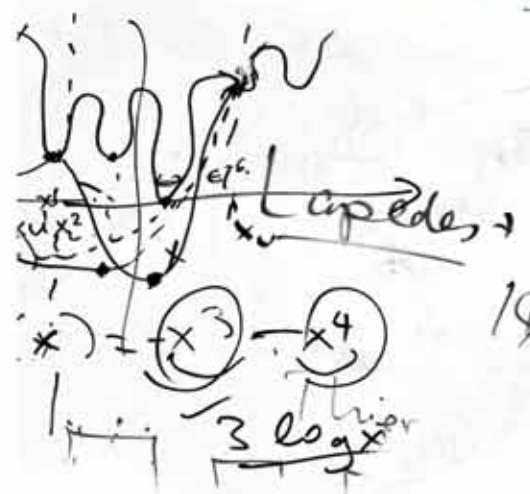
Nancy Lee

$N = 763$
 $P(l_1, l_2, l_3, l_4)$

$\log_2 763 = 188$



$P(i,j) = \sum_k P(A_i, A_j) \ln \frac{P(A_i, A_j)}{P(A_i) P(A_j)}$



8 Algorithm can predict shape of proteins, speeding basic cancer research

To understand how a particular protein functions or how it might contribute to disease, scientists need to investigate its three-dimensional structure, or shape, in detail. This type of information is normally obtained through complex and time-consuming lab experiments — for example, using a method called x-ray crystallography. For most proteins in our cells, such experiments have not yet been done, and the shapes remain unknown.

In December, a team of researchers made a breakthrough toward developing a computer method to predict a protein's shape based on its genetic sequence. The research team — led by scientists from Memorial Sloan-Kettering Cancer Center and Harvard Medical School — was able to rapidly gain detailed information about protein structure using genetic information alone.

The mathematical-physical method uses an algorithm that extracts clues about the way protein shapes have evolved over thousands or millions of years. Complementary to traditional methods of protein structure analysis, it could speed up basic research on cancer and other diseases and lead to more-effective strategies for drug design.



$N = 763$ 70
 $P(\lambda_1, \lambda_2, \lambda_3, \lambda_4)$ — mu

$\log_2 76 = 188$

mut rate =

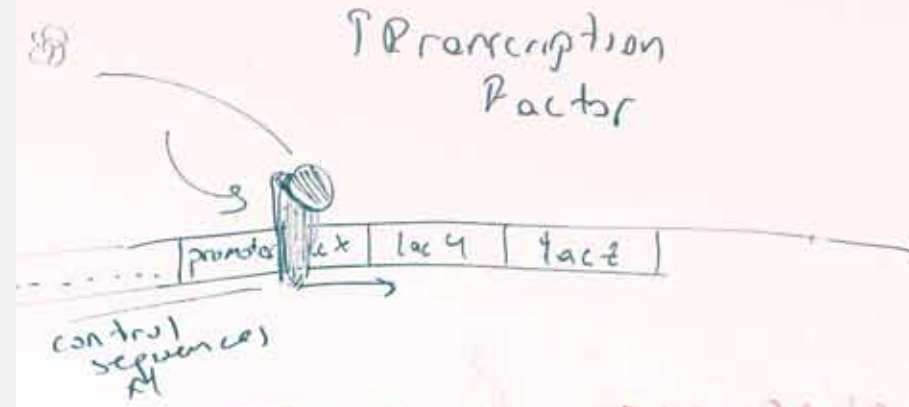


INA, MUT 10^{3-4}



Right page:

Computational biologist Chris Sander is Chair of the Sloan-Kettering Institute's Computational Biology Program. In his laboratory, researchers are developing computer tools for the analysis of cancer-causing molecular pathways. In addition, the lab uses systems biology methods to identify candidate combination therapies. Dr. Sander led the development of a new mathematical-physical method that makes it possible to use genetic information to compute the shapes of proteins, facilitating drug design.



$P(A \rightarrow B) \approx \exp(\dots)$

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- A inhibits B
- C inhibits B
- D " B
- A activates X

$P(A \rightarrow B) \approx \exp(\dots)$



Sander



9 *Two of 2011's top five advances in cancer research led by MSKCC physician-scientists*

Two of the top five advances in cancer research cited in the 2011 annual progress report of the American Society of Clinical Oncology (ASCO) were led by Memorial Sloan-Kettering Cancer Center researchers. The report focused on improvements in the areas of personalized medicine and targeted therapies. ASCO is the world's premier oncology professional society, representing more than 30,000 multidisciplinary medical professionals who treat people with cancer.

In a further demonstration of excellence, five MSKCC physician-scientists were selected to participate in the press program at ASCO's annual meeting in June 2011. The press program highlights clinical cancer research that a panel of ASCO experts considers the most significant of the year and worthy of media attention. The five MSKCC studies represented nearly a quarter of all those on the press program. The areas of research covered were advances in melanoma, ovarian cancer, prostate cancer, and lung cancer.



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Left page:

Carol A. Aghajanian is Chief of the Gynecologic Medical Oncology Service. Dr. Aghajanian focuses on the medical treatment of gynecologic cancers and leads MSKCC's research program in developmental therapeutics for ovarian and endometrial cancers. At ASCO's 2011 annual meeting, Dr. Aghajanian presented the results of a large study that she led showing that combining the drug bevacizumab with standard chemotherapy could reduce the risk of progression of recurrent ovarian cancer by 52 percent.

Right page:

Medical oncologist Mark G. Kris is Chief of the Thoracic Oncology Service. Dr. Kris specializes in the care of patients with all cancers arising in the chest. Since 2009, he has led MSKCC's Lung Cancer Mutation Analysis Project with MSKCC pathologist Marc Ladanyi (see page 8) to look for all known mutations in tumors of patients diagnosed with non-small cell lung cancers. The information obtained is then used to guide treatment. At ASCO, Dr. Kris — a member of the executive committee of the National Cancer Institute's Lung Cancer Mutation Consortium (LCMC) — presented an ongoing study from that group in which LCMC members (MSKCC and 13 other centers) were prospectively enrolling 1,000 patients with lung adenocarcinomas to test their tumors for known mutations. The goals were to use the information to provide the best care for the patients who participated, and to collect valuable information about the frequency and characteristics of genetic abnormalities in lung tumors to spur research that will further improve care.

(Inset, top) Howard I. Scher, Chief of the Genitourinary Oncology Service, is a medical oncologist with special expertise in treating men with advanced prostate cancer. At the ASCO meeting, Dr. Scher presented the results of an international study of the drug abiraterone acetate (Zytiga[®]) that showed an even greater survival benefit than previously reported and established a new class of treatment for men with metastatic castration-resistant prostate cancer. (To read more about Dr. Scher and his work, see page 11.)

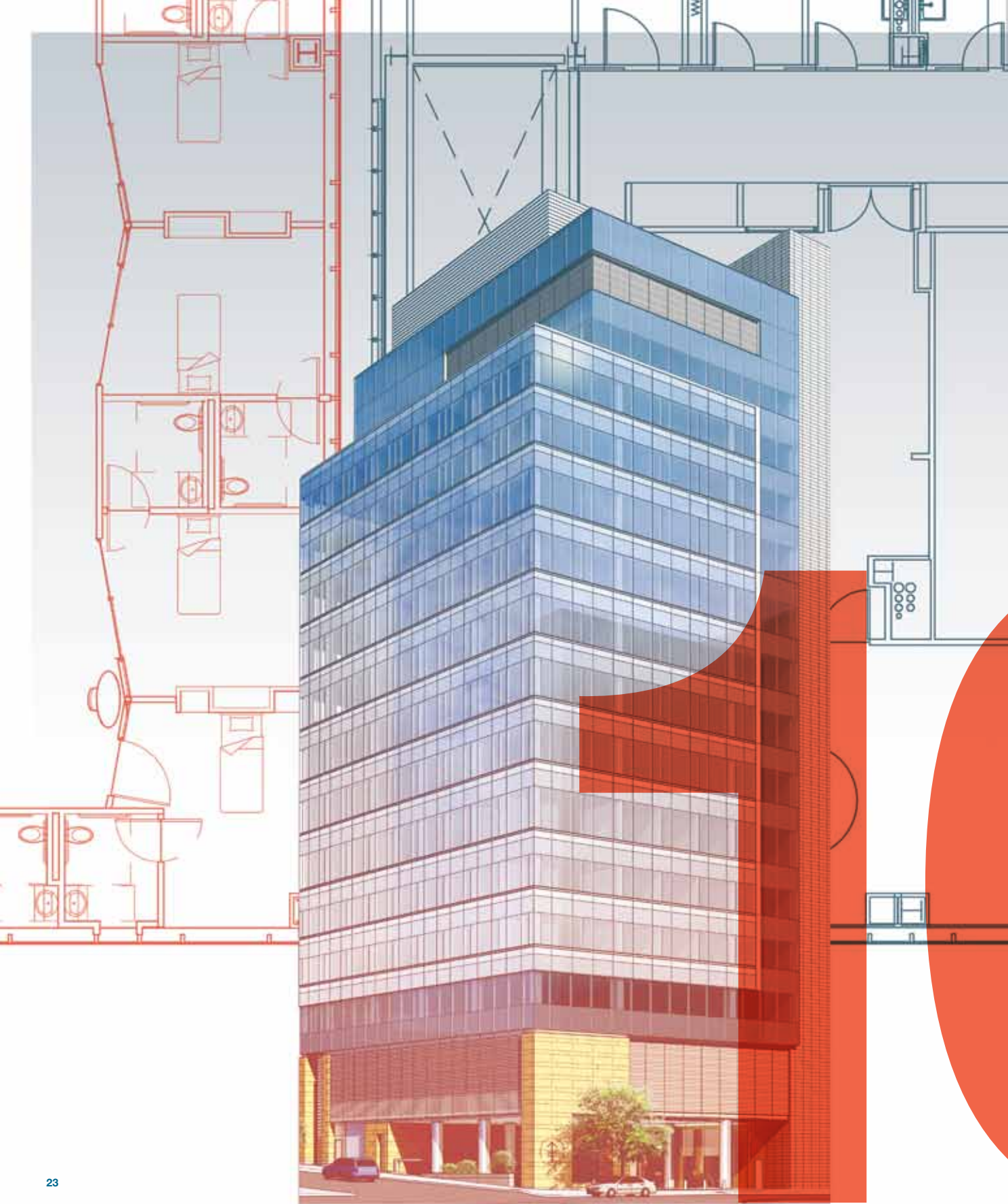
(Inset, middle) Medical oncologist Jedd D. Wolchok specializes in the treatment of melanoma. Dr. Wolchok participated in the meeting's Plenary Session where he presented research findings about ipilimumab (Yervoy[™]), a drug approved in March 2011 for the treatment of patients with metastatic melanoma. ASCO Plenary Sessions highlight scientific research deemed to have the highest merit and greatest impact on oncology research and practice. (To read more about Dr. Wolchok's work, see page 5.)

(Inset, bottom) Medical oncologist Paul B. Chapman specializes in metastatic melanoma, treating patients in the clinic and searching for new therapies that can control and cure the disease. Dr. Chapman also participated in the meeting's Plenary Session, presenting findings about a new therapy called vemurafenib. The drug (now called Zelboraf[®]) was approved in August 2011 for treatment of patients with advanced melanoma. (To read more about Dr. Chapman's research, see page 5.)



“In the past decade, due in large part to work done at MSKCC, it has been established that the key to treating lung cancer effectively has to do with finding the specific mutation in the tumor cells of each individual's cancer.”

Mark Kris

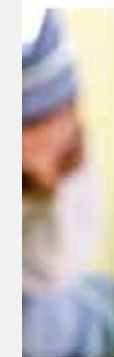


10 | *The Josie Robertson Surgery Center*

A generous commitment from The Robertson Foundation has made possible the creation of the Memorial Sloan-Kettering Josie Robertson Surgery Center, a new 16-story, 179,000-square-foot building to be constructed on York Avenue between East 61st and East 62nd Streets. It will feature 12 operating rooms equipped to provide technologically sophisticated surgical care on an outpatient basis. The facility is scheduled to be completed in 2015.

The Robertson Foundation was established in 1996 by investor Julian Robertson and his wife, the late Josephine “Josie” Robertson, along with their family. Mrs. Robertson, who was elected to Memorial Sloan-Kettering’s Board of Overseers in 2004, worked with her husband to support a range of causes in education, medical research, and other areas.

“A high-quality foundation has Robertson in a mission.”



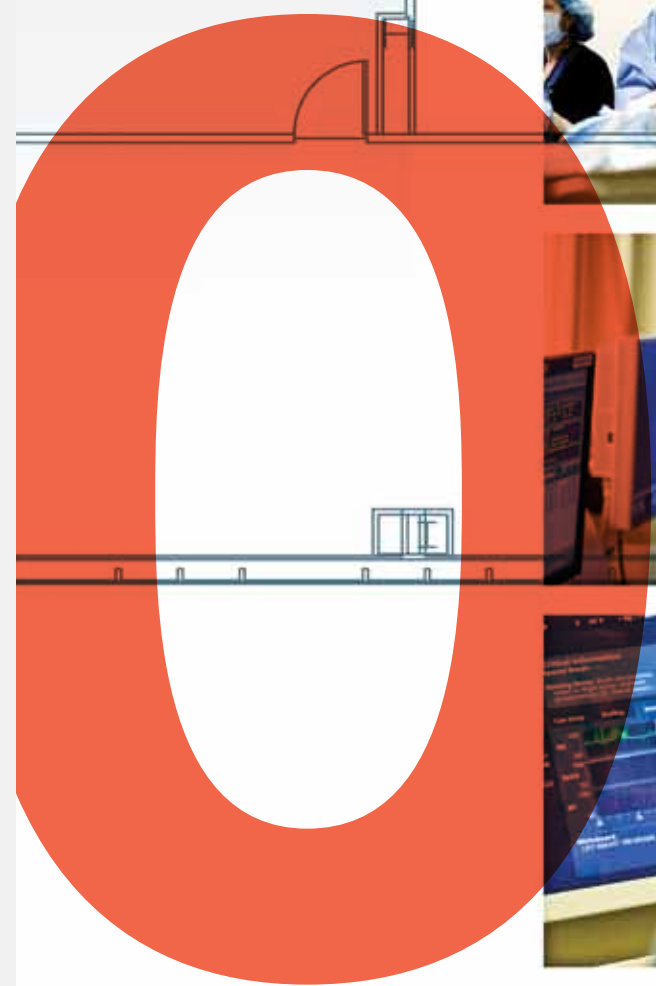


Left page:

The Josie Robertson Surgery Center will span the block between 61st and 62nd Streets on York Avenue and is scheduled to open in 2015.

“By supporting initiatives that focus on high-quality cancer treatment...The Robertson Foundation has provided the means to honor Mrs. Robertson in a way that goes to heart of this institution’s mission.”

Craig B. Thompson
President and CEO,
Memorial Sloan-Kettering
Cancer Center



The Campaign for Memorial Sloan-Kettering



Top row (from left):
Craig B. Thompson;
Louis V. Gerstner, Jr.;
and Douglas A. Warner III.

Bottom row (from left):
Jeff Rochford, a coach for
Fred's Team since 2004, run-
ning the ING New York City
Marathon, in his 15th mara-
thon with the team; a February
2012 Cycle for Survival ses-
sion in full force at the 44th
Street Equinox Fitness Center
in New York City.

Last year brought compelling evidence of the Campaign for Memorial Sloan-Kettering's ongoing success, as the Boards of Overseers and Managers authorized a five-year extension of the historic fundraising effort and raised its overall goal to \$3.5 billion. The Campaign had surpassed its previous goal more than two years ahead of schedule, and as of December 31, 2011, gifts and pledges totaled \$2,518,507,078.

Continuing in their roles as co-chairs of the extended Campaign are Douglas A. Warner III and Louis V. Gerstner, Jr. They, along with MSKCC President Craig Thompson and their colleagues on the Board, have played decisive roles in the Campaign's record-setting achievements.

Benefactors from around the world contributed nearly \$220 million in cash gifts in 2011, and the Campaign generated an additional \$161.3 million in new pledges — the highest new pledge total in Memorial Sloan-Kettering's history. Donors have given generously at every level, and the exceptional support provided by the following exemplifies the commitment shared by all.

Notable contributions include:

- Julian H. Robertson, Jr., and his family pledged \$50 million through **The Robertson Foundation** to create the Josie Robertson Surgery Center and the Josie Robertson Investigators Program as an enduring tribute to the late MSKCC Board member Josephine Robertson.
- Memorial Sloan-Kettering will benefit from a total of \$55 million in renewed support from **The Starr Foundation** for the Starr Cancer Consortium, an innovative collaboration that also includes the Broad Institute of MIT and Harvard, Cold Spring Harbor Laboratory, The Rockefeller University, and Weill Cornell Medical College.
- With their commitment of \$30 million through **The Commonwealth Foundation for Cancer Research**, Alice and William H. Goodwin, Jr., have brought their total giving in support of the Experimental Therapeutics Center to \$75 million.
- **Alan and Sandra Gerry** pledged \$5 million in support of the Metastasis Research Center, which is at the forefront of efforts to understand the deadly process by which tumors spread to other parts of the body.
- A gift of \$5 million from the **John W. Kluge Foundation** will be used to support research at Memorial Sloan-Kettering.
- A commitment of \$5 million from **Mary Miner** will help underwrite research into lung cancer, which is the leading cause of cancer death in the United States, but an area that is seriously underfunded.

In this same spirit of generosity, thousands of volunteers banded together last year to provide an unparalleled source of encouragement and support. The 2011 ING New York City Marathon included 775 runners running on behalf of Memorial Sloan-Kettering as members of Fred's Team. Through their efforts in this and other events nationwide, Fred's Team members raised more than \$4.7 million during the course of the year.

The Cycle for Survival indoor cycling event continued to show impressive results as it expanded to new locations around the country. Since its establishment in 2007, the event has raised \$17.5 million to support research into rare cancers at Memorial Sloan-Kettering.

Money raised during the Campaign is already helping to meet a variety of needs critical to the institution's future. Benefactors are inspired to give by the extraordinary work being done every day in the Center's laboratories and patient care facilities, and this support, in turn, fuels even greater progress in the fight against cancer.

Statistical Profile

Patient Care	2007	2008	2009	2010	2011
Patient Admissions: Adults	20,195	21,039	21,932	22,852	22,983
Patient Admissions: Children	1,673	1,650	1,537	1,494	1,503
Total Admissions	21,868	22,689	23,469	24,346	24,486
Total Patient Days	137,787	139,847	140,224	143,532	140,990
Average Patient Stay (days)	6.3	6.2	6.0	5.9	5.8
Bed Occupancy Rate (based on adjusted bed count)	87.4%	88.0%	88.5%	83.7%	82.2%
Outpatient MD Visits: Manhattan	368,200	384,889	406,024	418,415	432,802
Outpatient MD Visits: Regional Network	75,631	81,995	94,293	97,658	103,098
Total Outpatient Visits	443,831	466,884	500,317	516,073	535,900
Screening Visits	30,200	28,888	27,369	23,373	20,518
Surgical Cases	16,951	18,035	19,233	19,362	19,374
Radiation Treatments and Implants: Manhattan	57,307	58,494	57,856	59,223	60,393
Radiation Treatments and Implants: Network	44,615	43,550	47,987	47,926	51,615
Total Radiation Treatments and Implants	101,922	102,044	105,843	107,149	112,008
X-ray Examinations and Special Procedures	329,329	346,157	358,052	362,609	377,360
Clinical Investigation Protocols (open to accrual)	493	522	507	552	552

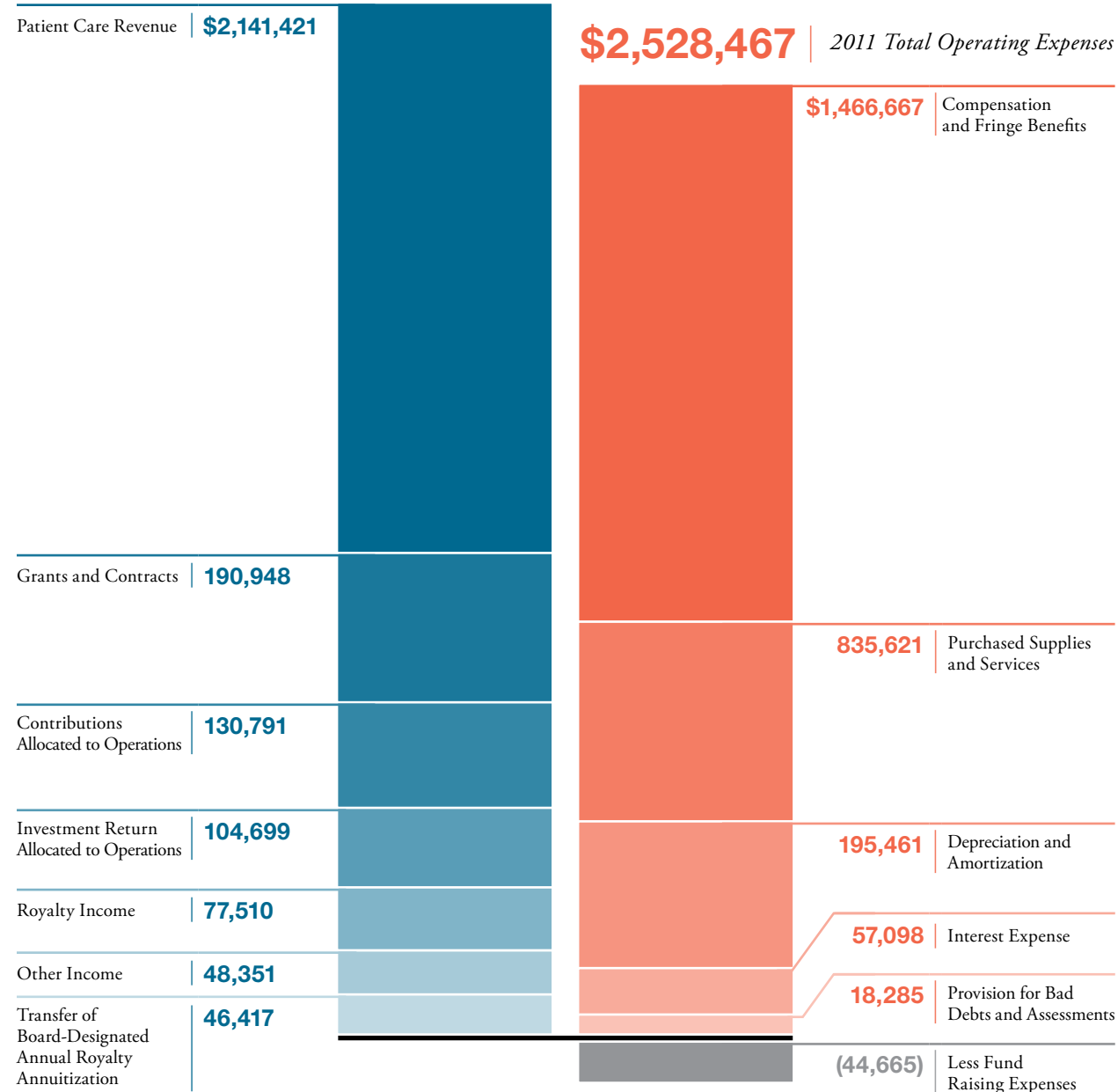
2011 Staff	2007	2008	2009	2010	2011
Sloan-Kettering Institute Members	128	133	140	142	143
Hospital Attending Staff	672	727	768	804	834
Registered Nurses	1,615	1,734	1,845	1,945	2,018
Support Staff	7,536	7,945	8,321	8,613	8,989
Total Staff*	9,917	10,505	11,039	11,469	11,950
Volunteers	848	871	917	942	1,058

* In 2011, 34 staff members held appointments in both the Institute and the Hospital.

2011 Education	2007	2008	2009	2010	2011
Residents and Clinical Fellows — Positions	419	418	436	447	440
Residents and Clinical Fellows — Annual Total	1,687	1,609	1,651	1,625	1,676
Research Fellows	404	254	303	295	321
Research Scholars	—	140	121	132	131
Research Associates	63	87	90	94	82
Graduate Research Assistants	—	—	—	23	29
PhD Candidates	195	232	227	231	225
MD/PhD Candidates	24	29	28	26	21
Registrants in CME Programs	2,035	2,115	2,395	2,554	2,533
Medical Observers	522	561	572	541	526
Medical Students	368	358	399	391	429
Nursing Students	61	72	109	105	142
Social Work Students	6	6	6	6	6
Radiation Oncology Technology Students	16	15	15	14	14
Cytotechnology Students	4	3	3	2	3
Physical Therapy Students	3	3	3	3	4
Occupational Therapy Students	1	5	4	3	3

Financial Summary *(in thousands)*

2011 Total Operating Revenue | **\$2,740,137**



Operating Revenues	2007	2008	2009	2010	2011
Patient Care Revenue	\$1,531,639	1,606,989	1,723,313	1,854,776	2,141,421
Grants and Contracts	149,275	163,352	167,495	186,327	190,948
Contributions Allocated to Operations	95,481	108,844	126,250	117,323	130,791
Royalty Income	38,302	94,131	62,232	68,663	77,510
Other Income	39,902	41,963	43,144	44,874	48,351
Investment Return Allocated to Operations	113,131	116,546	103,998	100,389	104,699
Transfer of Board-Designated Annual Royalty Annuitization	29,440	33,122	37,158	41,578	46,417
Total Operating Revenues	\$1,997,170	2,164,947	2,263,590	2,413,930	2,740,137

Operating Expenses	2007	2008	2009	2010	2011
Compensation and Fringe Benefits	\$1,061,946	1,164,155	1,286,536	1,361,032	1,466,667
Purchased Supplies and Services	659,488	684,872	757,863	772,968	835,621
Provision for Bad Debts and Assessments	13,387	6,823	10,881	11,046	18,285
Depreciation and Amortization	157,494	175,870	171,806	175,494	195,461
Interest Expense	54,872	59,023	64,997	47,931	57,098
Less Fund Raising Expenses Transferred to Non-Operating Income (Expenses)	(33,523)	(36,048)	(40,320)	(43,926)	(44,665)
Total Operating Expenses	\$1,913,664	2,054,695	2,251,763	2,324,545	2,528,467
Income from Operations	\$83,506	110,252	11,827	89,385	211,670

Philanthropy	2007	2008	2009	2010	2011
Philanthropy	\$239,020	279,103	166,247	237,666	301,374

Capital Spending	2007	2008	2009	2010	2011
Capital Spending	\$274,455	345,135	226,049	262,371	223,251

Balance Sheet Summary	2007	2008	2009	2010	2011
Assets	\$6,143,433	5,578,522	6,068,707	6,448,415	6,790,005
Liabilities	2,098,776	2,354,618	2,467,135	2,550,899	2,848,843
Net Assets	\$4,044,657	3,223,904	3,601,572	3,897,526	3,941,162

Boards of Overseers and Managers*as of March 15, 2012*

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Memorial Sloan-Kettering Cancer Center**

as of March 15, 2012

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as of March 15, 2012

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The Department of Public Affairs
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Cancer Center

Kathy Lewis
Vice President, Public Affairs

Anne B. O'Malley
Executive Director, Public Affairs

1275 York Avenue
New York, NY 10065

t: 212-639-3573
f: 212-639-3576

publicaffairs@mskcc.org

Writers

Celia Gittelsohn
Julie Grisham
Eva Kiesler

Contributors

Anne Clear
Ha Ly
Joe Pisarchick
Christina Schoen

Photography

Juliana Thomas

Additional Photography

Richard Dewitt
Mario Morgado
ASCO/GMG/Scott Morgan
Matthew Septimus

Design

Thinkso Creative
www.thinkso.com

Printing

Finlay

Front Cover Image

*Dermatologist and
Director of Micrographic
and Dermatologic Surgery
Kishwer S. Nehal*



Memorial Sloan-Kettering
Cancer Center

www.mskcc.org/annualreport

1275 York Avenue
New York, NY 10065

212-639-2000
General Information

800-525-2225
Physician Referral Service

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as of March 15, 2012



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*Vincent Astor Chair of
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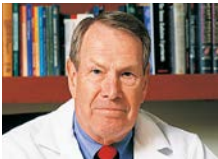
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Department of Anesthesiology and Critical Care Medicine

as of March 15, 2012



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Mohit Chawla, MD
Sanjay Chawla, MD
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Departments of Memorial Hospital

Department of Epidemiology and Biostatistics

as of March 15, 2012



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Eugene W. Kettering Chair

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Glenn Heller, PhD
Malcolm C. Pike, PhD
Chris Sander, PhD
Venkatraman E. Seshan, PhD

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Sara H. Olson, PhD
Irene Orlow, PhD

Katherine S. Panageas, DrPH
Jaya M. Satagopan, PhD
Howard T. Thaler, PhD
Andrew J. Vickers, DPhil
Ann G. Zauber, PhD

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Sean M. Devlin, PhD
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Department of Laboratory Medicine

as of March 15, 2012



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Martin Fleisher, PhD
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Peter Maslak, MD
Eric Pamer, MD
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Renier J. Brentjens, MD, PhD
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Rekha Parameswaran, MD

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Ngolela Esther Babady, PhD
Laura K. Bechtel, PhD
Christine Gi-Yun Mounq, MD
Kazunori Murata, PhD
Christopher Y. Park, MD, PhD
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 Pat Zanzonico, PhD

Amita Dave, PhD
 Yusuf E. Erdi, DSc.
 Doracy P. Fontenla, PhD
 Y. C. David Huang, PhD
 Margie A. Hunt, MS
 Andrew Jackson, PhD
 Assen S. Kirov, PhD
 Dale M. Lovelock, PhD
 James G. Mechalakos, PhD
 Sadek Nehmeh, PhD
 Ceferino H. Obcemea, PhD
 Joseph A. O'Donoghue, PhD
 Kristen L. Zakian, PhD

David H. Gultekin, PhD
 Hongbiao Carl Le, PhD
 Guang (George) Li, PhD
 Jingdong Li, PhD
 Ruimei Ma, PhD
 Yousef Mazaheri, PhD
 Kyung K. Peck, PhD
 Charles R. Schmidlein, PhD
 Yulin Song, PhD
 Sunitha Bai Thakur, PhD
 Weijun Xiong, PhD
 Guozhen (Jenny) Yang, PhD
 Pengpeng Zhang, PhD
 Qinghui Zhang, PhD

ASSOCIATE ATTENDINGS

Douglas J. Ballon, PhD
 Maria F. Chan, PhD

ASSISTANT ATTENDINGS

Ase M. Ballangrud-Popovic, PhD
 Lawrence T. Dauer, PhD
 Cesar Della Bianca, PhD
 Paul Frisch, PhD

INSTRUCTORS

Ellen Ackerstaff, PhD
 Jazmin Schwartz, PhD



CHAIR AND ATTENDING

George J. Bosl, MD
*The Patrick M. Byrne Chair
 in Clinical Oncology*

DIVISION HEADS AND ATTENDINGS

Ephraim S. Casper, MD
*Division of Network
 Medicine Services*
 Eric G. Pamer, MD
*Division of General Medicine;
 Enid A. Haupt Chair in Clinical
 Investigation*
 David R. Spriggs, MD
*Division of Solid Tumor
 Oncology; Wintrop Rockefeller
 Chair in Medical Oncology*
 Marcel R. M. van den Brink,
 MD, PhD
*Division of Hematologic
 Oncology; Alan N.
 Houghton Chair*

SENIOR ATTENDING

Bayard D. Clarkson, MD
*Enid A. Haupt Chair of
 Therapeutic Research*

ATTENDINGS

Carol Aghajanian, MD
 James P. Allison, PhD
*David H. Koch Chair in
 Immunologic Studies;
 Howard Hughes Medical
 Institute Investigator*
 Peter Bach, MD
 Dean F. Bajorin, MD
 Michael S. Baum, MD
 Ellin Berman, MD
 William S. Breitbart, MD
 Murray F. Brennan, MD
*Benno C. Schmidt Chair
 in Clinical Oncology*

Arthur E. Brown, MD
 Philip C. Caron, MD, PhD
 Albert R. Casazza, MD
 Barrie R. Cassileth, PhD
*Laurance S. Rockefeller Chair
 in Integrative Medicine*
 Hugo R. Castro-Malaspina, MD
 Raju S. K. Chaganti, PhD
William E. Snee Chair
 Paul B. Chapman, MD
 Dan Douer, MD
 James A. Fagin, MD
 Carlos D. Flombaum, MD
 Kathleen M. Foley, MD
*The Society of Memorial Sloan-
 Kettering Cancer Center Chair*
 Francesca M. Gany, MD
 Hans Gerdes, MD
 Teresa Ann Gilewski, MD

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Department of Medicine

as of March 15, 2012

Sergio A. Giralt, MD	Malcolm A. S. Moore, DPhil	David A. Scheinberg, MD, PhD	Anne R. Bass, MD
Paul A. Glare, MBBS	<i>Enid A. Haupt Chair of Cell Biology</i>	<i>Vincent Astor Chair</i>	Renier J. Brentjens, MD, PhD
Michael S. Glickman, MD	Craig H. Moskowitz, MD	Howard I. Scher, MD	Jacqueline F. Bromberg, MD, PhD
José G. Guillem, MD	Robert J. Motzer, MD	<i>D. Wayne Calloway Chair in Urologic Oncology</i>	Alan C. Carver, MD
Richard D. Granstein, MD	Patricia L. Myskowski, MD	William J. Schneider, MD	Chih-Shan Jason Chen, MD, PhD
Jeffrey S. Groeger, MD	Stephen D. Nimer, MD	Philip Schulman, MD	Gabriela Chiosis, PhD
Allan C. Halpern, MD	<i>(through April 30, 2012)</i>	Gary K. Schwartz, MD	Gabriella M. D'Andrea, MD
Neil A. Halpern, MD	<i>Alfred P. Sloan Chair</i>	Andrew D. Seidman, MD	Gary E. Deng, MD, PhD
Audrey M. Hamilton, MD	Larry Norton, MD	Kent A. Sepkowitz, MD	Maura N. Dickler, MD
Alan N. Houghton, MD	<i>Norna S. Sarofim Chair in Clinical Oncology</i>	Moshe Shike, MD	Pamela R. Drullinsky, MD
<i>Lloyd J. Old Chair for Clinical Investigation</i>	Kevin Oeffinger, MD	Stewart Shuman, MD, PhD	Alan L. Engelberg, MD
Clifford A. Hudis, MD	Herbert F. Oettgen, MD	<i>Simon H. Rifkind Chair</i>	Marc B. Feinstein, MD
David H. Ilson, MD, PhD	Kenneth Offit, MD	Nancy T. Sklarin, MD	Theodore R. Fields, MD
Ann A. Jakubowski, MD, PhD	Richard J. O'Reilly, MD	Gerald A. Soff, MD	John J. Fiore, MD
Suresh C. Jhanwar, PhD	<i>Claire L. Tow Chair in Pediatric Oncology Research</i>	Richard M. Steingart, MD	Stephanie A. Fish, MD
Lewis J. Kampel, MD	Stephen A. Paget, MD	Diane E. Stover, MD	Venera Grasso, MD
David Paul Kelsen, MD	Esperanza B. Papadopoulos, MD	David J. Straus, MD	Hani Hassoun, MD
<i>Edward S. Gordon Chair in Medical Oncology</i>	Gavril W. Pasternak, MD, PhD	Steven M. Sugarman, MD	Mark L. Heaney, MD, PhD
Nancy E. Kemeny, MD	<i>Anne Burnett Tandy Chair of Neurology</i>	Martin S. Tallman, MD	Martee L. Hensley, MD
Richard N. Kolesnick, MD	Stephen Pastores, MD	Yi-Wei Tang, MB, MSc, PhD	James J. Hsieh, MD, PhD
Jason A. Koutcher, MD, PhD	David G. Pfister, MD	Maria Theodoulou, MD	Katharine C. Hsu, MD, PhD
Mark G. Kris, MD	Carol S. Portlock, MD	Craig B. Thompson, MD	Michelle N. Johnson, MD
<i>William and Joy Ruane Chair in Thoracic Oncology</i>	Lilian M. Reich, MD, PhD	R. Michael Tuttle, MD	Joseph G. Jurcic, MD
Robert C. Kurtz, MD	Isabelle C. Rivière, PhD	Nicholas Jon Vander Els, MD	Marcia F. Kalin, MD
Diana E. Lake, MD	Nancy Roistacher, MD	Stephen R. Veach, MD	Noah D. Kauff, MD
Steven M. Larson, MD	Neal Rosen, MD, PhD	Carolyn Wasserheit, MD	Mary L. Keohan, MD
<i>Donna and Benjamin M. Rosen Chair in Radiology</i>	<i>Enid A. Haupt Chair in Medical Oncology</i>	Sidney J. Winawer, MD	Jeffrey A. Knauf, PhD
Stuart M. Lichtman, MD	Michel Sadelain, MD, PhD	<i>Paul Sherlock Chair</i>	Beatriz Korc-Grodzicki, MD, PhD
Hans G. Lilja, MD	<i>Stephen and Barbara Friedman Chair</i>	Robert E. Wittes, MD	Lee M. Krug, MD
Michael D. Lockshin, MD	Leonard B. Saltz, MD	<i>Vincent Astor Chair of Clinical Research</i>	Mario E. Lacouture, MD
Steven K. Magid, MD	Jean T. Santamauro, MD	Han Xiao, MD	Sheron Latcha, MD
Joseph A. Markenson, MD	Charles L. Sawyers, MD	Nicholas Jon Vander Els, MD	Ross L. Levine, MD
Arnold J. Markowitz, MD	<i>Marie-Josée and Henry R. Kravis Chair in Human Oncology and Pathogenesis; Howard Hughes Medical Institute Investigator</i>	David L. Wuest, MD	Jennifer E. Liu, MD
Paul A. Marks, MD		James W. Young, MD	C. Ronald MacKenzie, MD
Steven C. Martin, MD		ASSOCIATE ATTENDINGS	Vivek T. Malhotra, MD, MPH
Peter G. Maslak, MD		Ghassan K. Abou-Alfa, MD	Ashfaq A. Marghoob, MD
Nancy E. Mills, MD		David R. Artz, MD	Franklin Marsh, Jr., MD
		Juliet N. Barker, MBBS	Michael R. McDevitt, PhD
		Ethan M. Basch, MD	Michael J. Morris, MD
			Mary E. Moynahan, MD
			Kishwer S. Nehal, MD

Deena J. Nelson, MD	Stefan Berger, MD	Stephanie M. Goodman, DO	Eileen P. McAleer, MD
Kenneth K. Ng, MD	Jessica R. Berman, MD	Tabitha N. Goring, MD	Heather L. McArthur, MD
Ariela Noy, MD	Victoria S. Blinder, MD	Mila Gorsky, MD	Robin B. Mendelsohn, MD
Eileen M. O'Reilly, MB, BCh, BAO	Michelle S. Boyar, MD	Mrinal M. Gounder, MD	Charis Fan-Hui Meng, MD
Genovefa A. Papanicolaou, MD	Richard D. Carvajal, MD	Deena M. Atieh Graham, MD	Taha Merghoub, PhD
Rekha Parameswaran, MBBS	Kathleen N. S. Cathcart, MD	Polly D. Gregor, PhD	Shanu Modi, MD
Govindaswami Ragupathi, PhD	Andrea Cercek, MD	Yvona Griffio, MD	<i>Patricia and James Cayne</i>
Milind Rajadhyaksha, PhD	Sarat Chandarlapaty, MD, PhD	Rebecca D. S. Guest, MD	<i>Chair for Junior Faculty</i>
Naiyer A. Rizvi, MD	Mohit Chawla, MD	Shellie L. Gumbs, MD	Ana M. Molina, MD
Mark E. Robson, MD	Sanjay Chawla, MD	Kay E. Hale, MD	Natalie Moryl, MD
Jonathan E. Rosenberg, MD	Carol L. Chen, MD	Paul A. Hamlin, MD	Alison J. Moskowitz, MD
Paul J. Sabbatini, MD	Yu Chen, MD, PhD	Alan Loh Ho, MD, PhD	Tanya M. Nikolova, MD
Mona Sabra, MD	Ping Chi, MD, PhD	Steven M. Horwitz, MD	Michelle K. Nowak, MD
Lisa R. Sammaritano, MD	<i>Geoffrey Beene Junior</i>	Yelena Y. Janjigian, MD	Roisin E. O'Ceirbhail,
Mark A. Schattner, MD	<i>Faculty Chair</i>	Robert Jenq, MD	MB, BCh, BAO
Sergio Schwartzman, MD	David J. Chung, MD, PhD	Erik K. Johnson, MD	Susan A. Oliveria, ScD, MPH
Susan K. Seo, MD	Dana M. Cutzu, MD	Anna Kaltsas, MD	Barbara O'Sullivan, MD
Monika Shah, MD	Chau T. Dang, MD	Mini Kamboj, MBBS	Paul K. Paik, MD
Susan F. Slovin, MD, PhD	Sandra P. D'Angelo, MD	Rana Kaplan, MD	Maria Lia Palomba, MD
David B. Solit, MD	Marco L. Davila, MD, PhD	Amsale Ketema, MD	Edward J. Parrish, MD
Robert F. Spiera, MD	Jennifer L. DeFazio, MD	Kyriakos A. Kirou, MD, DSc	Jae Hong Park, MD
Richard Stern, MD	Liang Deng, MD, PhD	Virginia M. Klimek, MD	Tina M. Passalaris, MD
Andrew J. Vickers, PhD	Madhuri Devabhaktuni, MBBS	Adam D. Klotz, MD	Shilen N. Patel, MD
Gina M. Villani, MD, MPH	Lisa C. Diamond, MD, MHS, MPH	Guenther Koehne, MD, PhD	Miguel-Angel Perales, MD
Louis P. Voigt, MD	Mark A. Dickson, MD	Jason A. Konner, MD	Maria C. Pietanza, MD
Jonathan W. Weinsaft, MD	Stephen J. Di Martino, MD, PhD	Douglas Koo, MD, MPH	Ian G. Pinto, MBBS
Howard Weinstein, MD	Barbara C. Egan, MD	Chhavi Bansal Kumar, MD	Doris M. Ponce, MD
Jedd D. Wolchok, MD, PhD	Doruk Erkan, MD	Nicole Lamanna, MD	Christine Querfeld, MD
Ann G. Zaubler, PhD	Azeez Farooki, MD	Heather J. Landau, MD	Elizabeth A. Quigley, MD
Andrew D. Zelenetz, MD, PhD	Julie Fasano, MD	Erica H. Lee, MD	Dragos Rancea, MD
	Darren R. Feldman, MD	Robert P. Lee, MD	Nina D. Raoof, MD
	Monica N. Fournier, MD	Nikoletta Lendvai, MD, PhD	Dana E. Rathkopf, MD
ASSISTANT ATTENDINGS	Mark G. Frattini, MD, PhD	Jennifer C. Leng, MD, MPH	Diane Reidy Lagunes, MD
Omar I. Abdel-Wahab, MD	Matthew G. Fury, MD, PhD	Michelle K. Logozzo, MD	Gregory J. Riely, MD, PhD
Juliet B. Aizer, MD	Devika Gajria, MD	Alexander M. Lesokhin, MD	Todd L. Rosenblat, MD
Arlyn Apollo, MD	John F. Gerecitano, MD, PhD	Emmy Ludwig, MD	Marina Rozenberg, MD
Abraham Aragones, MD, MS	Monica Girotra, MD	Vicky Makker, MD	Linda A. Russell, MD
Dalit Ashany, MD	Ilya G. Glezerman, MD	Lisa A. Mandl, MD	Mabel M. Ryder, MD
Christopher G. Azzoli, MD	Jenna Goldberg, MD	Debra Mangino, DO	Craig S. Sauter, MD
Shrujal S. Baxi, MD	Zoe Goldberg, MD	Anna R. Marcelli, MD	Cori Salvit, MD
Katherine M. Bell-McGuinn,	Shari Goldfarb, MD	Matthew J. Matasar, MD	Wendy L. Schaffer, MD, PhD
MD, PhD			

Departments of Memorial Hospital

Department of Medicine

as of March 15, 2012

Neil H. Segal, MD, PhD
Eric J. Sherman, MD
Stephanie Smith-Marrone, MD
Philip S. Spencer, MD
Zsofia K. Stadler, MD
Sung Wu Sun, MD
William D. Tap, MD
Sohail F. Tavazoie, MD, PhD
William P. Tew, MD
Muthukumar Thangamani, MBBS
Dharmarao Thapi, PhD
Roma Tickoo, MD

Emily S. Tonorezos, MD, MPH
Tiffany A. Traina, MD
Tiffany Troso-Sandoval, MD
Frank Tsai, MD
Lisa C. Vasanth, MD
Adrienne Vincenzino, MD
Steven Q. Wang, MD
Kathleen M. Wesa, MD
Rona D. Yaeger, MD
Arthur M. F. Yee, MD, PhD
Joseph P. Yoe, MBBS
Kenneth Ho-Ming Yu, MD

INSTRUCTORS

Vivek K. Arora, MD, PhD
Amer Assal, MD
Kathleen R. Atlans, MD
Samarth Beri, MD
Erika F. Brutsaert, MD
Walid Chalhoub, MD
Elizabeth Comen, MD
Lisa M. Czanko, MD
Daniel C. Danila, MD
Judy Dong, DO
David Ecker, MD
Daniel Goldstein, MBBS

Gopakumar V. Iyer, MD
Jyoti Malhotra, MBBS, MPH
Peter A. Mead, MD
Anju B. Mehta, MD
Crystal M. North, MD
Wael C. Saleh, MB, ChB
Nelson F. Sanchez, MD
Jonathan H. Schatz, MD
Ummara H. Shah, MD
Stacy M. Stabler, MD, PhD
Ying Taur, MD, MPH
George K. Wang, MD, PhD

Department of Neurology

as of March 15, 2012



CHAIR AND ATTENDING

Lisa M. DeAngelis, MD
*Lillian Rojzman Berkman Chair
in Honor of Jerome B. Posner*

ATTENDINGS

Ronald G. Blasberg, MD
Robert B. Darnell, MD, PhD
Kathleen M. Foley, MD
The Society of Memorial Sloan-Kettering Cancer Center Chair
Paul A. Glare, MBBS
Eric Holland, MD, PhD
*Emily Tow Jackson Chair
in Oncology*
Gavril W. Pasternak, MD, PhD
*Anne Burnett Tandy Chair
of Neurology*
Jerome B. Posner, MD
*American Cancer Society Clinical
Research Professor; George C.
Cotzias Chair of Neuro-Oncology*

Neal Rosen, MD, PhD
*Enid A. Haupt Chair in
Medical Oncology*
Jonathan D. Victor, MD, PhD

ASSOCIATE ATTENDINGS

Alan C. Carver, MD
Xi Chen, MD, PhD
Denise D. Correa, PhD
Yasmin Khakoo, MD
Craig P. Nolan, MD
Ying-Xian Pan, PhD
Michael D. Stubblefield, MD

ASSISTANT ATTENDINGS

Edward K. Avila, DO
Christian M. Custodio, MD
Igor T. Gavrilovic, MD

Yvonna Griffo, MD
Thomas Kaley, MD
Susruta Majumdar, PhD
Ingo K. Mellinghoff, MD
Natalie Moryl, MD
Babak Navi, MD
Antonio M. P. Omuro, MD
Elena Pentsova, MD
Sonia K. Sandhu, DO
Jonas M. Sokolof, DO
Roma Tickoo, MD, MPH
Kaleb H. Yohay, MD

INSTRUCTORS

Milan Chheda, MD
Kevin C. De Braganca, MD
Christian Grommes, MD



CHAIR AND ATTENDING

Philip H. Gutin, MD
*Fred Lebow Chair in
Neuro-Oncology*

ATTENDINGS

Mark H. Bilsky, MD
Eric C. Holland, MD, PhD
*Emily Tow Jackson Chair
in Oncology*
Samuel H. Selesnick, MD
Philip E. Stieg, MD, PhD
Lorenz P. Studer, MD

ASSOCIATE ATTENDINGS

Michael Kaplitt, MD, PhD
Mark M. Souweidane, MD
Viviane S. Tabar, MD

ASSISTANT ATTENDINGS

Cameron W. Brennan, MD
Jeffrey P. Greenfield, MD, PhD
Ilya Laufer, MD



**ACTING CHAIR AND
ATTENDING**

David S. Klimstra, MD

ATTENDINGS

Cristina Antonescu, MD
Edi Brogi, MD, PhD
Klaus J. Busam, MD
Meera R. Hameed, MBBS
Suresh C. Jhanwar, PhD
Marc Ladanyi, MD
*William J. Ruane Chair
in Molecular Oncology*
Oscar Lin, MD
Victor E. Reuter, MD
Marc K. Rosenblum, MD
Founder's Chair
Robert A. Soslow, MD
Julie Teruya-Feldstein, MD
Satish K. Tickoo, MD
William D. Travis, MD
Maureen F. Zakowski, MD

ASSOCIATE ATTENDINGS

Emily Cheng, MD, PhD
April Chiu, MD
Ronald A. Ghossein, MD
Dilip D. Giri, MD
Cyrus V. Hedvat, MD, PhD
André L. Moreira, MD, PhD
Khedoudja Nafa, PhD
Jinru Shia, MD
Lee K. Tan, MD
Christina E. Vallejo, MD
Liyong Zhang, MD, PhD

ASSISTANT ATTENDINGS

Narasimhan Agaram, MBBS
Hikmat A. Al-Ahmadie, MD
Maria E. Arcila, MD
Michael F. Berger, PhD
Yingbei Chen, MD, PhD
Adriana Dionigi Corben, MD
Snjezana Dogan, MD

Marcia Edelweiss, MD
Samson W. Fine, MD
Karuna Garg, MBBS
Anuradha Gopalan, MBBS
Jason T. Huse, MD, PhD
Nora Katabi, MD
Melissa Murray, DO
Christopher Y. Park, MD, PhD
Kay J. Park, MD
Melissa P. Pulitzer, MD
Natasha Rekhman, MD, PhD
Carlie Silbo Sigel, MD
Laura H. Tang, MD, PhD
Efsevia Vakiani, MD, PhD
Lu Wang, MD, PhD
Yong Hannah Wen, MD, PhD

INSTRUCTORS

Deborah F. DeLair, MD
Robin Michael Elliott, MD

Departments of Memorial Hospital

Department of Pediatrics

as of March 15, 2012



CHAIR AND ATTENDING

Richard J. O'Reilly, MD
*Claire L. Tow Chair in Pediatric
Oncology Research*

ATTENDINGS

David H. Abramson, MD
Nai-Kong V. Cheung, MD, PhD
*Enid A. Haupt Chair in
Pediatric Oncology*
Patricia J. Giardina, MD
Nancy A. Kernan, MD
Brian H. Kushner, MD
Michael P. La Quaglia, MD
*Joseph H. Burchenal Chair
in Pediatrics*
Paul A. Meyers, MD
Kevin C. Oeffinger, MD
Michel Sadelain, MD, PhD
*Stephen and Barbara
Friedman Chair*
Charles A. Sklar, MD
Trudy Nan Small, MD
Laurel J. Steinherz, MD
Peter G. Steinherz, MD

ASSOCIATE ATTENDINGS

Farid Boulad, MD
James B. Bussel, MD
Irene Y. Cheung, ScD
Ira J. Dunkel, MD

Patrick A. Flynn, MD
Bruce M. Greenwald, MD
Yasmin Khakoo, MD
Kim Kramer, MD
Shakeel Modak, MBBS
Mark M. Souweidane, MD
Tanya M. Trippett, MD
Maria G. Vogiatzi, MD
Leonard H. Wexler, MD

ASSISTANT ATTENDINGS

Seena S. Abraham, MBBS
Zoltan Antal, MD
Naomi B. Bishop, MD
Sheila J. Carroll, MD
Alexander Ja-Ho Chou, MD
Nana E. Coleman, MD
Jeffrey Dayton, MD
Ekaterina Doubrovina, MD, PhD
Jennifer S. Ford, PhD
Stephen W. Gilheeny, MD
Jeffrey P. Greenfield, MD, PhD
Aisha N. Hasan, MBBS
Joy D. Howell, MD
Deyin Doreen Hsing, MD

Julia Kearney, MD
David C. Lyden, MD, PhD
Ajay Mirani, MD
Saroj Nimkarn, MD
Steven Pon, MD
Christine A. Pratilas, MD
Susan E. Prockop, MD
Stephen S. Roberts, MD
Peter M. C. Savard, MD
Leonard G. Steinberg, MD
Chani Traube, MD
Kaleb H. Yohay, MD

INSTRUCTORS

Ellen M. Basu, MD, PhD
Kevin J. Curran, MD
Kevin C. De Braganca, MD
Rachel Kobos, MD
Heather Magnan, MD
Jessica L. Perniciaro, MD
Grace J. Pinto Britton, MD
Thomas M. Renaud, MD
Edward Shlasko, MD, MBA
Neerav Shukla, MD
Cindy L. Wong, MD



CHAIR AND ATTENDING

David W. Kissane, MD
Jimmie C. Holland Chair

ATTENDINGS

Timothy A. Ahles, PhD
Philip A. Bialer, MD
William S. Breitbart, MD
Katherine N. DuHamel, PhD
Francesca M. Gany, MD
Jimmie C. Holland, MD
*Wayne E. Chapman Chair
of Psychiatric Oncology*
Marguerite S. Lederberg, MD
Mary Jane Massie, MD
Andrew J. Roth, MD

ASSOCIATE ATTENDINGS

Carma L. Bylund, PhD
Jennifer L. Hay, PhD
Jamie S. Ostroff, PhD

ASSISTANT ATTENDINGS

Abraham Aragonés, MD
Thomas M. Atkinson, PhD
Smita Banerjee, PhD
Abraham S. Bartell, MD
Jack E. Burkhalter, PhD
Jeanne Carter, PhD
Lisa C. Diamond, MD
Jennifer S. Ford, PhD
Julia A. Kearney, MD
Jennifer C. Leng, MD
Tomer T. Levin, MBBS
Yuelin Li, PhD
Wendy G. Lichtenthal, PhD
Christian J. Nelson, PhD
James C. Root, PhD
Elizabeth L. Ryan, PhD
Talia I. Zaider, PhD

INSTRUCTORS

Matthew N. Doolittle, MD
Richard G. Key, MD
Melissa L. Ozga, DO



CHAIR AND ATTENDING

Simon N. Powell, MD, PhD
*Enid A. Haupt Chair in
Radiation Oncology*

ATTENDINGS

David H. Abramson, MD
Kaled M. Alektiar, MD
Adriana Haimovitz-Friedman, PhD
Gloria C. Li, PhD
Beryl McCormick, MD
Karen D. Schupak, MD
Joachim Yahalom, MD
Michael J. Zelefsky, MD

ASSOCIATE ATTENDINGS

Daphna Y. Gelblum, MD
Karyn A. Goodman, MD
Nancy Lee, MD
Borys R. Mychalczak, MD
Suzanne L. Wolden, MD
Yoshiya Yamada, MD

ASSISTANT ATTENDINGS

Christopher A. Barker, MD
Kathryn F. Beal, MD
Karen Borofsky, MD
Timothy Chan, MD, PhD
Brett Wayne Cox, MD
Pinaki R. Dutta, MD, PhD
Richard M. Gewanter, MD
Alice Yoosun Ho, MD
Marisa A. Kollmeier, MD
James E. Lee, MD
Boris Mueller, MD
Preeti K. Parhar, MD
Shyam S. D. Rao, MD, PhD
Melissa R. Remis, MD
Andreas Rimner, MD
Helen L. Sidebotham, MD
Abraham Jing-Ching Wu, MD

Departments of Memorial Hospital

Department of Radiology

as of March 15, 2012



CHAIR AND ATTENDING

Hedvig Hricak, MD, PhD
Carroll and Milton Petrie Chair

ATTENDINGS

Andrea F. Abramson, MD
Sara J. Abramson, MD
Ariadne M. Bach, MD
Mark J. Bluth, MD
Karen T. Brown, MD
James F. Caravelli, MD
Jorge A. Carrasquillo, MD
Christopher E. Comstock, MD
D. David Dershaw, MD
George I. Getrajdman, MD
Robert T. Heelan, MD
Andrei I. Holodny, MD
George Krol, MD
Steven M. Larson, MD
*Donna and Benjamin M. Rosen
Chair in Radiology*
Carol H. Lee, MD
Jason S. Lewis, PhD
Laura Liberman, MD
Elizabeth A. Morris, MD
David M. Panicek, MD
Anita P. Friedman Price, MD
Heiko Schöder, MD
Stephen B. Solomon, MD
H. William Strauss, MD
Jerrod B. Teitcher, MD
Jean Torrisi, MD
Robert D. Zimmerman, MD

ASSOCIATE ATTENDINGS

Linda R. Aboody, MD
Oguz Akin, MD
Lynn A. Brody, MD
Betty A. Caravella, MD
Anne M. Covey, MD

Otilia-Liana Dumitrescu, MD
Jeremy C. Durack, MD
Arthur A. Fruauff, MD
Scott R. Gerst, MD
Michelle S. Ginsberg, MD
Marc J. Gollub, MD
Linda A. Heier, MD
Tunç A. Iyriboz, MD
Stefanie S. Jacobs, MD
Maxine S. Jochelson, MD
Jennifer B. Kaplan, MD
Sasan Karimi, MD
Karen B. Karlson, MD
Delia M. Keating, MD
Robert A. Lefkowitz, MD
Eric Lis, MD
Neeta Pandit-Taskar, MBBS
Harpreet K. Pannu, MD
Jurgen Rademaker, MD
Marc Z. Simmons, MD
Constantinos T. Sofocleous,
MD, PhD
Hilda E. Stambuk, MD
Raymond H. Thornton, MD
Barbara Wajsbrodt-Kandel, MD
Corinne B. Winston, MD
Jingbo Zhang, MD

ASSISTANT ATTENDINGS

William Alago, Jr., MD
Miriam Benezra, PhD
Michelle S. Bradbury, MD, PhD
Sandra Brennan, MB, BCh, BAO
Sean D. Carlin, PhD
Joshua L. Chaim, DO
Donna D. D'Alessio, MD

Kinh Gian Do, MD, PhD
Mark Phillip S. Dunphy, DO
Joseph P. Erinjer, MD, PhD
Kimberly N. Feigin, MD
Stephen E. Fleming, Jr., MD
Josef J. Fox, MD
James L. Fuqua III, MD
Athanasios P. Glekas, PhD
Ravinder K. Grewal, MD
Jan Grimm, MD, PhD
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Division of General Surgical Oncology; Leslie H. Blumgart Chair in Surgery

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Department of Surgery

as of March 15, 2012

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Human Oncology and Pathogenesis Program

as of March 15, 2012



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Department of Nursing

as of March 15, 2012

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as of March 15, 2012



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Division of Social Work

as of March 15, 2012



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RESOURCES FOR LIFE

AFTER CANCER

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as of March 15, 2012



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David A. Scheinberg, MD, PhD
Craig B. Thompson, MD
(ex officio)

Cancer Biology and Genetics Program

as of March 15, 2012



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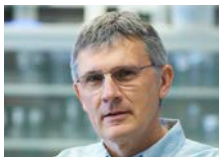
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as of March 15, 2012



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Computational Biology Program

as of March 15, 2012



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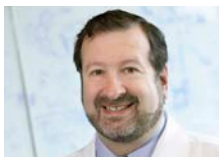
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