

elec-tric \ i- lek-trik, e- \ -

2: exciting as if by electric shock; also: charged with strong emotion

Contents

The Vision

ROBERT I. GROSSMAN, MD, SAUL J. FARBER DEAN AND CEO, ON TRAINING DOCTORS TO MEET THE CHALLENGES OF THE 21ST CENTURY



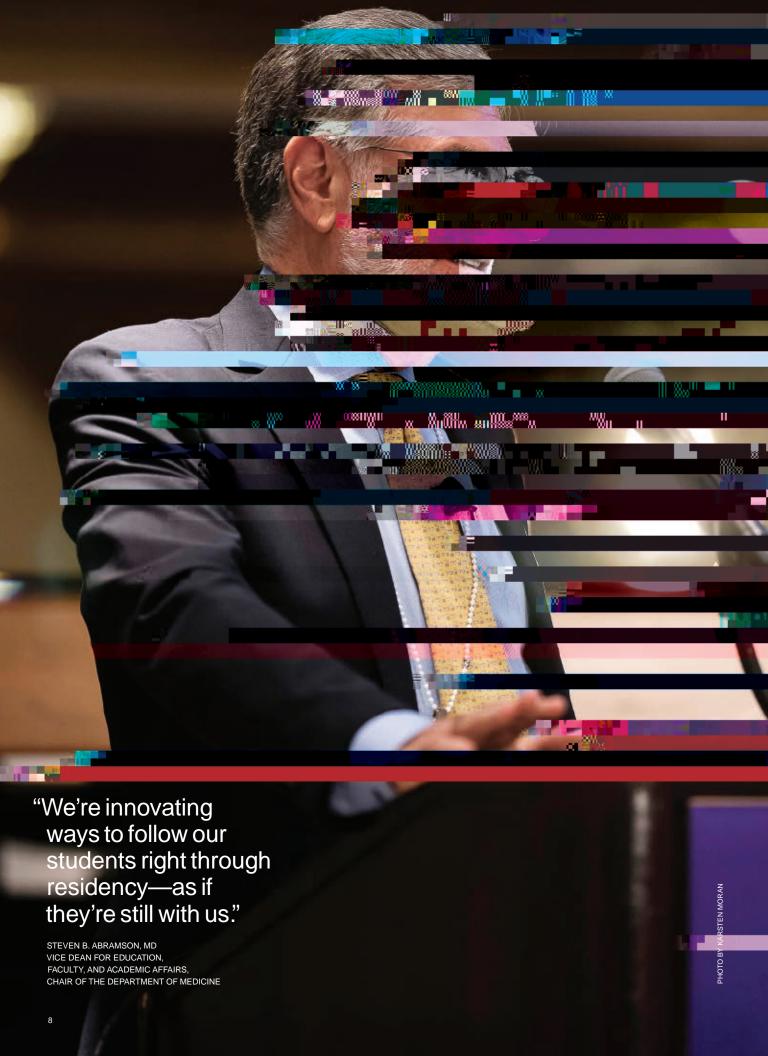
Training Doctors to Meet the Challenges of the 21st Century

A Q&A WITH ROBERT I. GROSSMAN, MD, SAUL J. FARBER DEAN AND CEO

At a time when medicine, science, and healthcare seem to be competing with each other for which eld can change faster, medical educators face many challenges. Among the biggest, as I see it, is the cost of a medical education and the debt students assume after graduation. Shouldering a debt of more than \$189,000—the average for new doctors—is unsustainable.

TO HELP ALLEVIATE THIS BURDMENestablished the Three-Year MD Pathway Program in 2013 for those who qualify. At that time, NYU School of Medicine was the rst medical school in the country to offer accelerated entry into any specialty with a guar -





How Do We Train Tomorrow's Doctors? It's Personal.

A Q&A WITH STEVEN B. ABRAMSON, MD, SENIOR VICE PRESIDENT AND VICE DEAN FOR EDUCATION, FACULTY, AND ACADEMIC AFFAIRS, AND CHAIR OF THE DEPARTMENT OF MEDICINE

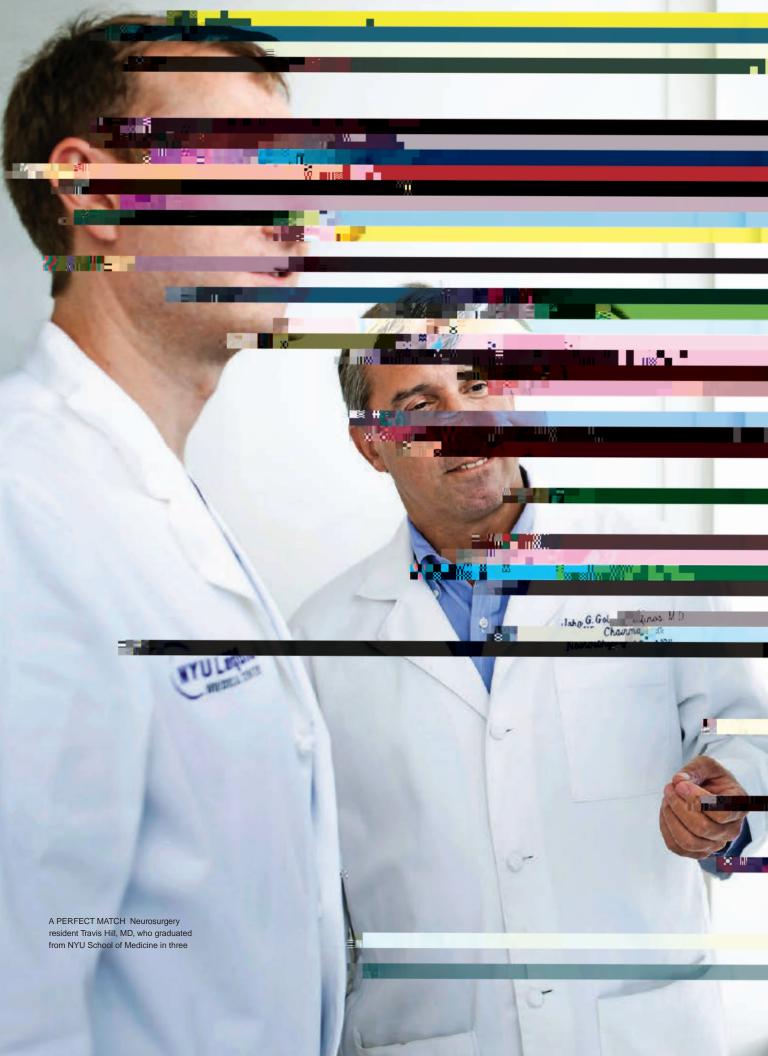
HOW HAS THE CURRICULUM FOR THE 21ST CENTURY REINVENTED MEDICAL EDUCATION AT NYU SCHOOL OF MEDICINE?

Most important, we've personalized learning

Helping Medical Students Graduate Sooner, and with Less Debt

MANY STUDENTS CONSIDERING CAREER&dicine nd themselves weighing the signi cant nancial burden it imposes—and often decide on another





"New technologies are merely a means to an end. The goal is to improve the ways we teach and learn."

MARC M. TRIOLA, MD DIRECTOR OF THE IIME, ASSOCIATE DEAN FOR EDUCATIONAL INFORMATICS

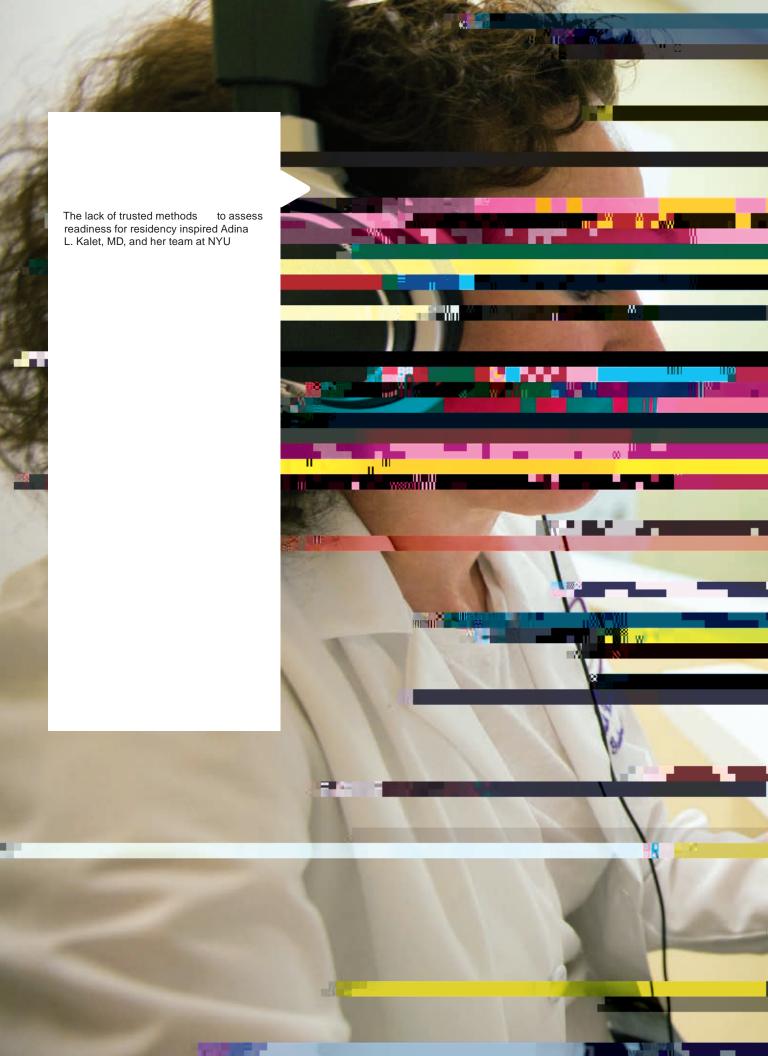


Bridging the Gap between Medical School and Residency

FEW EXPERIENCES ARBre stressful in the life of a doctor than making the leap from medical school to residency. "Right now, the model is that you nish medical school, and even though your education continues, there is no coherent transition to residency," says Steven B. Abramson, MD, vice dean for education, faculty, and academic affairs, and chair of the Department of Medicine. "The freshly minted graduate essentially starts all over again, with little attention to building upon that individual's particular known thes. (a)-9 66(c)-23 TD [(a)-47]

individual's particular knowr thc8. (e)-9.66(c)-23 TD [(a)-47.7 61kili i 9,f a 2aedical schooe in maaon that (l)-17 (6)-47.7 (n)-28.4 (s)-11.4 (i)-3.









These are just a few of the ways NYU School of Medicine empowers its researchers to investigate medicine's deepest mysteries.



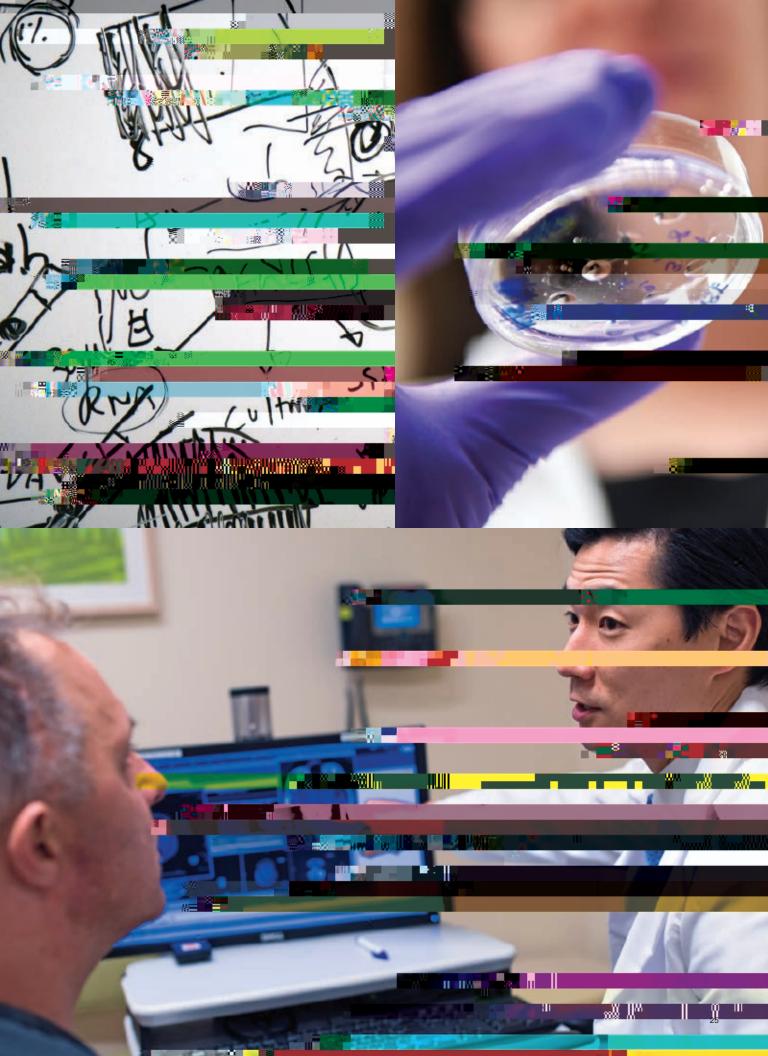
Energy, Ingenuity and the Future of Biomedical Research

A Q&A WITH DAFNA BAR-SAGI. PHD. SENIOR VICE PRESIDENT, VICE DEAN FOR SCIENCE, AND CHIEF SCIENTIFIC OFFICER

BIOMEDICAL RESEARCH AT NYU SCHOOL OF MEDICINE HAS EXPERIENCED TREMENDOUS GROWTH IN THE PAST FIVE YEARS. WHAT'S BEHIND THIS SURGE?
Our aspiration is to be one of the most proli c biomedical research enterprises in the country, and productivity starts with talented, dynamic people. In the past ve years, we have focused on recruiting investigators who can energize our institution and plant the seeds of future success. Our strategy is already reaping dividends. The size of our research faculty has nearly doubled. The new Science Building, which opens in phases starting this fall, more than doubles our research

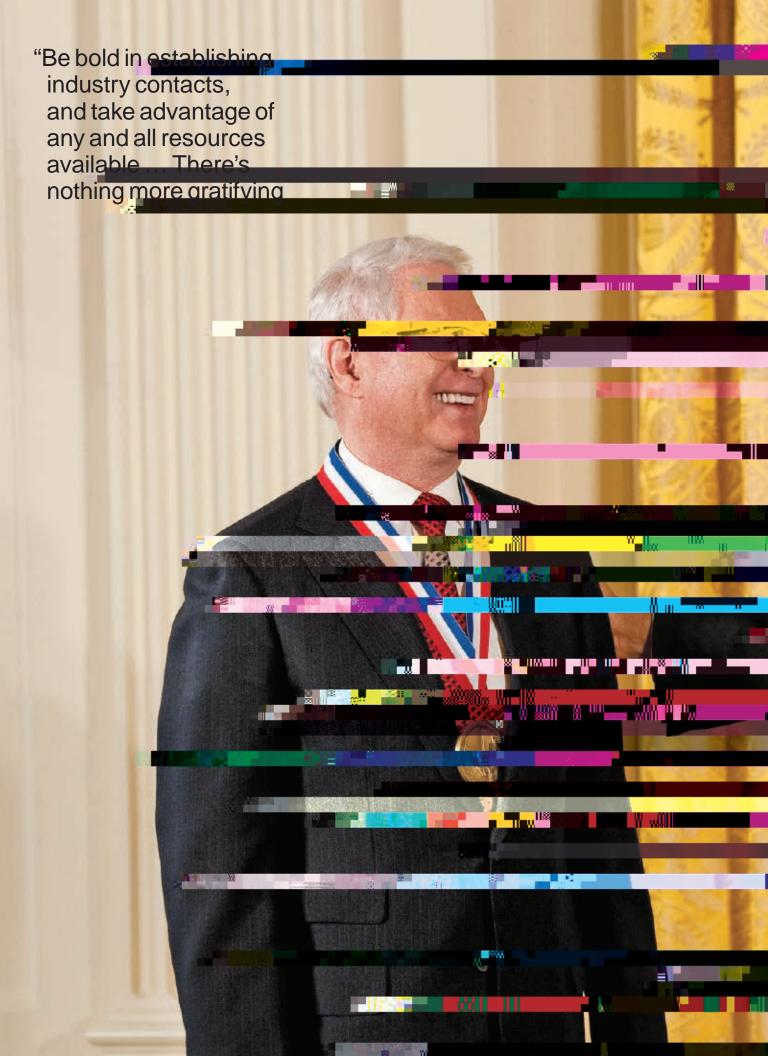
NYU Langone's Innovative Model of Drug Discovery

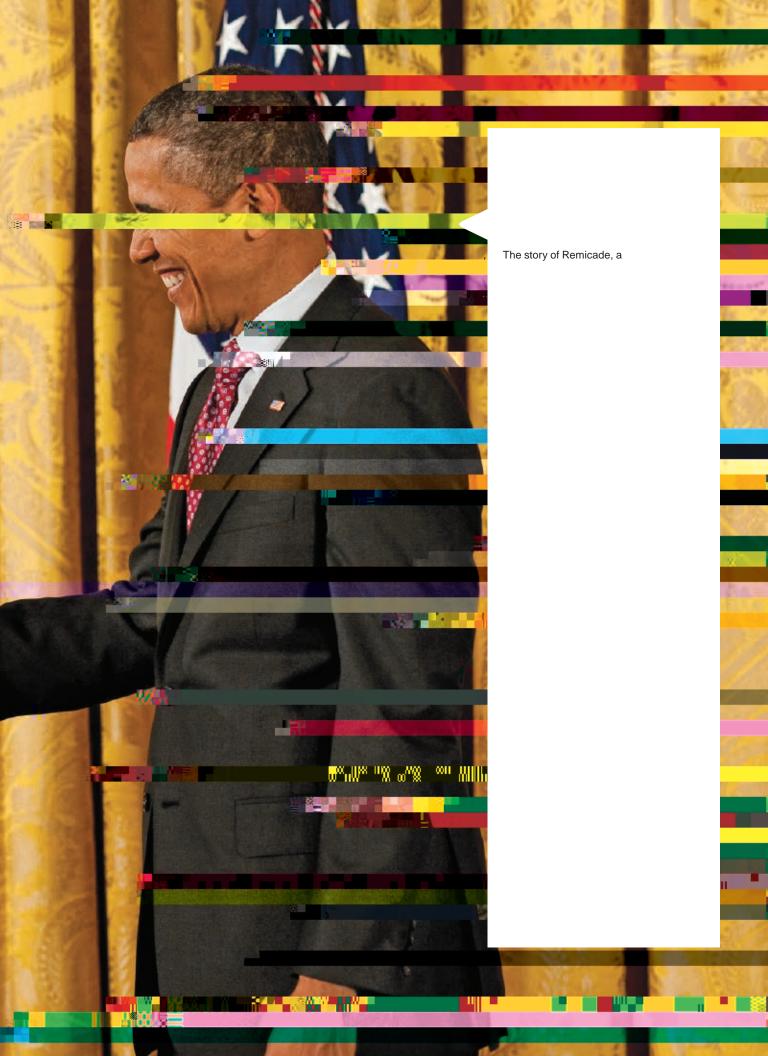
THE AVERAGE DRUGEs about a decade to develop, fails 90% of the time, and can cost up to \$1 billion by the time it reaches FDA approval. Academic in stitutions traditionally lack the hefty resoures

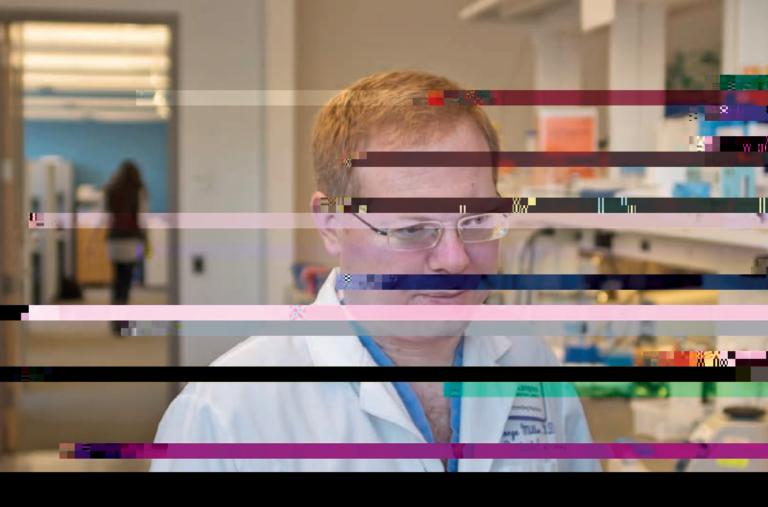






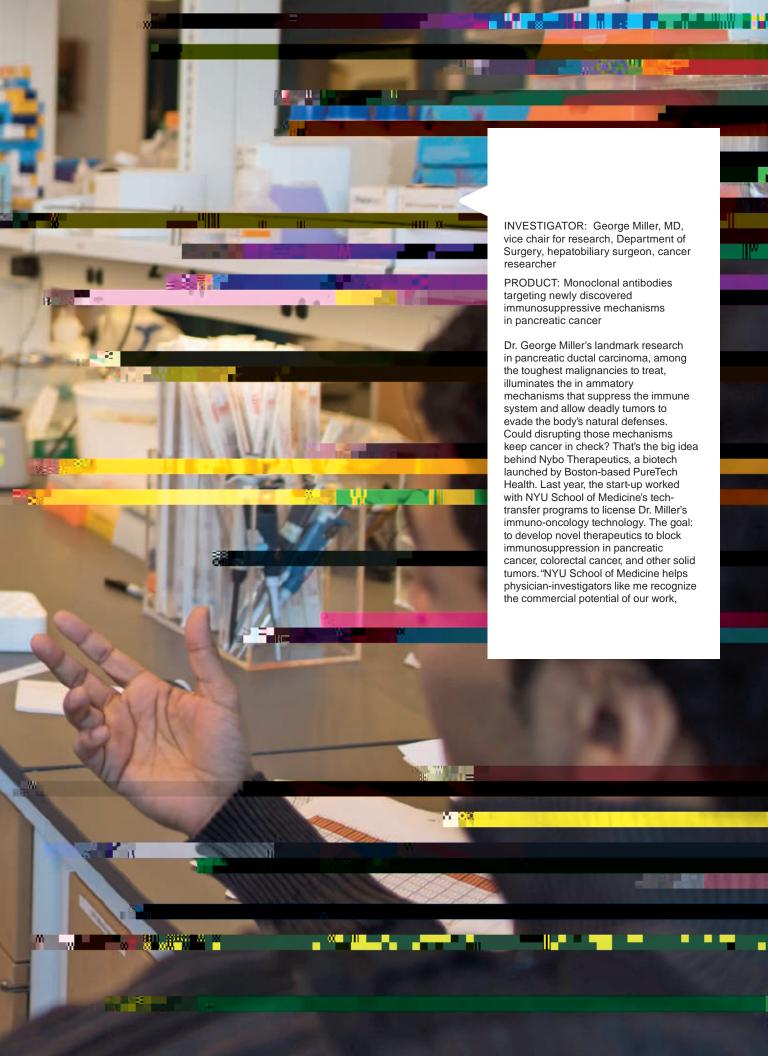


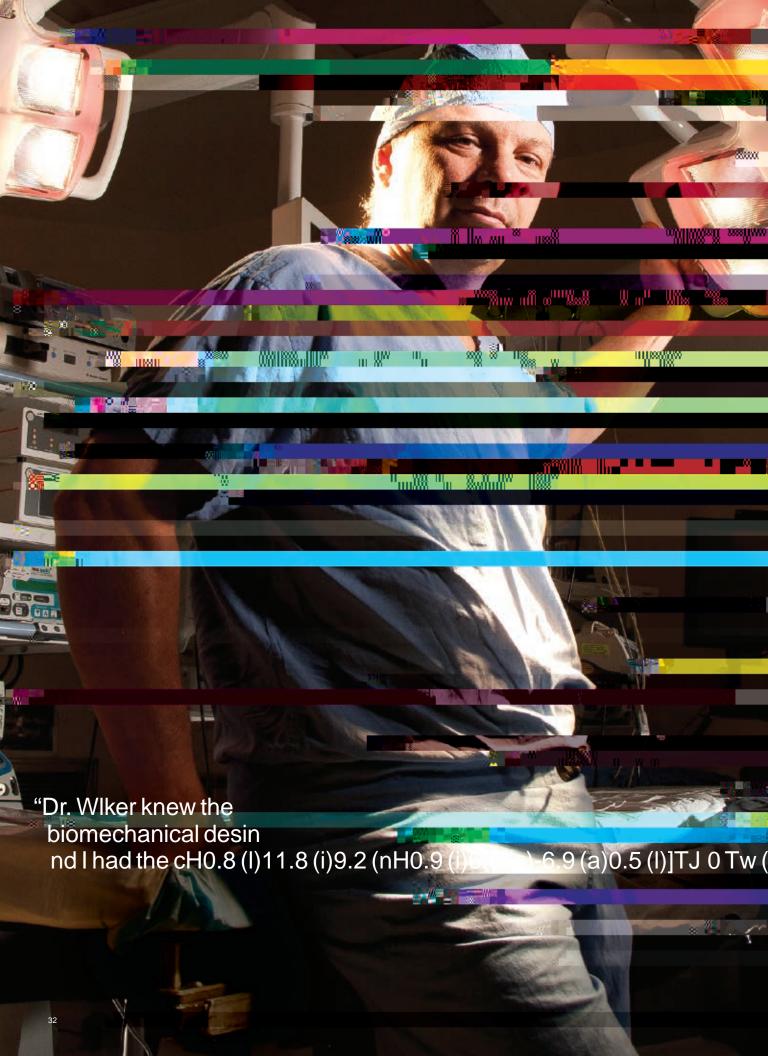


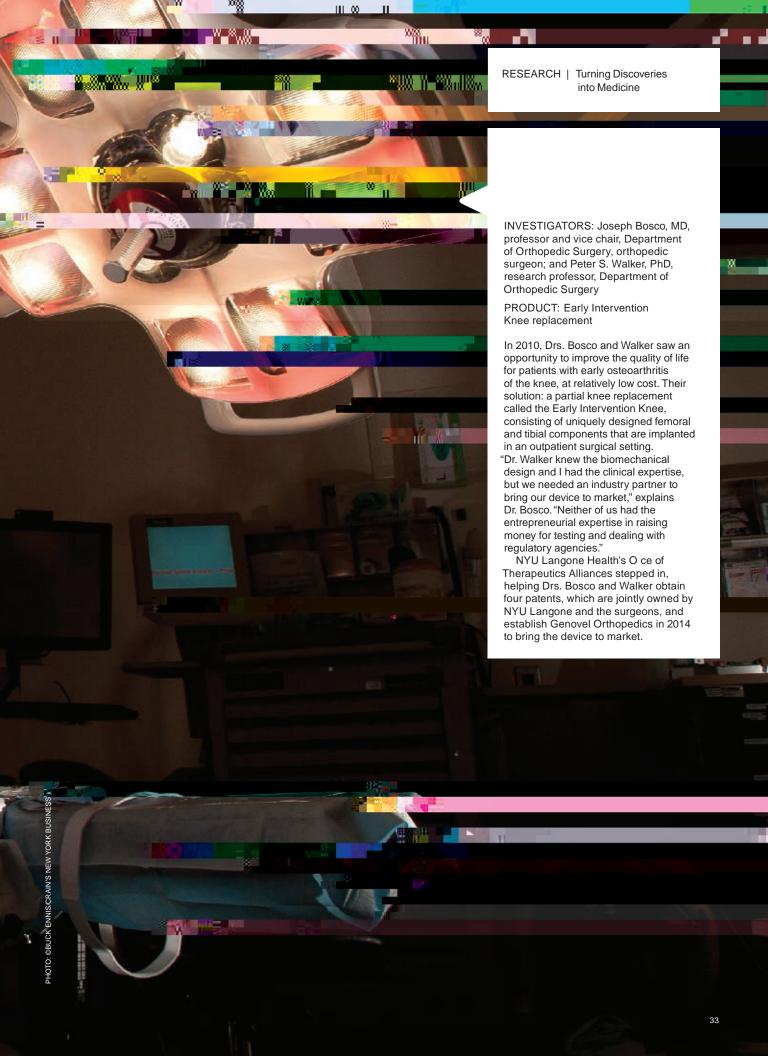


"NYU School of Medicine supports physician-investigators like me at the earliest stages of research, when it's too early to think about commercialization, but with an eye to eventual commercialization."

GEORGE MILLER, MD HEPATOBILIARY SURGEON, CANCER RESEARCHER, ENTREPRENEUR









Matching the Biggest Mysteries with the Brightest Minds

NYU School of Medicine's cadre of more than 400 researchers is tackling medicine's toughest challenges, from obesity to organ transplantation, through cross-discipline collaboration and creative problem solving. It's a simple formula that continues to yield extraordinary results. Here are just a few examples of the stellar science our investigators reported in 2017.

Finding the Molecular Link between Obesity, Diabetes, and Atherosclerosis

TWO-THIRDS OF AMERICAMS overweight or obese, conditions that fuel diabetes and heart disease. "Unfortunately, people with obesity and diabetes

overwhelmingly die of heart disease," explains Edward A. Fisher, MD, PhD, a clinician-scientist whose research focuses on atherosclerosis, the leading cause of heart attacks. "These three conditions likely share molecular mechanisms." With a ve-year, \$12 million grant from the National Heart, Lung, and Blood Institute, Dr. Fisher and his colleagues at NYU School of Medicine,

Kathryn Moore, PhD, the Jean and David Blechman Professor of Cardiology, and Ann Marie Schmidt, MD, PhD, the Dr. Iven Young Professor of Endocrinology, are zooming in on the particular role of the macrophage, a type of white blood cell.





The list of distinguished faculty recruited for key clinical and research positions in 2017—still growing beyond those featured below—is just one measure of the institution's dramatic expansion and drive for excellence.

NEW PEOPLE | Top Talent

CANCER

Ahmad Samer Al-Homsi, MD, a hematologist-oncologist, was appointed director of the Blood and



ENTERING CLASS OF 2017

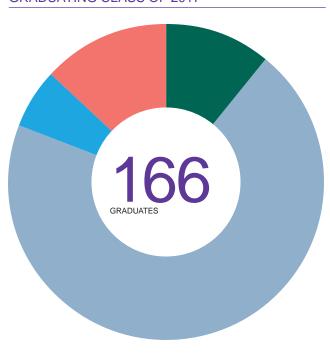
119 CLASS SIZE 1,211 INTERVIEWS CONDUCTED

3.93 MEDIAN GPA

21%
UNDERREPRESENTED IN MEDICINE

50%

GRADUATING CLASS OF 2017



243
AVERAGE USMLE STEP 1 SCORE

MEMBERS OF THE CLASS OF 2017
INDUCTED INTO ALPHA OMEGA ALPHA,
NATIONAL MEDICAL HONOR SOCIETY

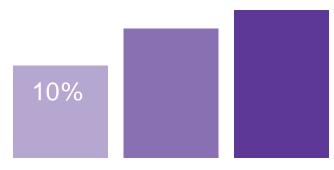
GRADUATE MEDICAL EDUCATION

1,327
RESIDENTS AND FELLOWS

TRENDS IN ACCELERATED LEARNING

Percentage of MD Graduates Earning a Degree in Three Years





RESEARCHERS

481

421
POSTDOCTORAL FELLOWS

31
NEW RESEARCH-FOCUSED FACULTY

263
PHD CANDIDATES

FACULTY HONORS

5

Howard Hughes Medical Institute Investigators

10

Health and Medicine Division of the National Academies of Sciences, Engineering, and Medicine (formerly Institute of Medicine) Members

10

National Academy of Sciences Members

11

American Academy of Arts and Sciences Members

18

American Association for the Advancement of Science Fellows

NYU TECHNOLOGY VENTURES AND ALLIANCES*

+\$1B

TOTAL AMOUNT RAISED BY STARTUPS

779
PATENTS ISSUED

UPS PA

#1

IN LICENSE INCOME OVER THE PAST 10 YEARS

24

BIOMEDICAL PRODUCTS BROUGHT TO MARKET

69

STARTUPS FORMED

186

LICENSES SIGNED IN THE PAST FIVE YEARS

*These numbers are cumulative and exclude other NYU schools

FUNDING

Total Grant Revenue

> \$361M \$196M

2008

2017 NYU SCHOOL OF MEDICINE REPORT

NEW YORK UNIVERSITY

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