Sara Fazio, associate master of the Holmes Society and HMS associate professor of medicine at Beth Israel Deaconess Medical Center, helps first-year student Sun Jin Lee don her white coat during Clinical White Coat Day, a rite of passage for entering students.
A Starting Point

I invite you to look deeply at Harvard Medical School, beginning with these basic facts and figures and continuing to wherever your exploration takes you. Based in Boston’s Longwood Medical Area, the School connects faculty, staff, students and trainees on the main campus and those at 17 affiliated hospitals and research institutes in the region. We are committed to serving society by training physicians and scientists and by making discoveries and translating them into better prevention and treatment.

Over the past year, we have taken extraordinary strides in advancing many of our key priorities. These include reaching milestones in primary care, faculty development and diversity, and immunology research and education. We could not have achieved so much without the dedication and vision of the Medical School community. I am grateful for the work of all these women and men, whose commitment to a shared mission strengthens the School and improves the health of people worldwide.

Whether you are a longtime member of the School community, a relative newcomer or a current visitor, we welcome your interest and continued exploration.

Sincerely,

Jeffrey S. Flier, MD
Dean of the Faculty of Medicine
Harvard University

NOTE: Unless otherwise specified, the figures presented on these pages were determined as of September 2010.

The numbers for different categories of faculty (unless otherwise noted) refer to the Faculty of Medicine, which includes faculty at Harvard Medical School (HMS) and the Harvard School of Dental Medicine (HSDM).

Financial figures pertain only to Harvard Medical School.
HMS Mission
To create and nurture a diverse community of the best people committed to leadership in alleviating human suffering caused by disease

Founding
September 19, 1782

Leadership
Jeffrey S. Flier, MD
Dean of the Harvard University Faculty of Medicine

Academic Deans
William W. Chin, MD
Executive Dean for Research

Maureen Connelly, MD, MPH
Dean for Faculty Affairs

Jules Dienstag, MD
Dean for Medical Education

R. Bruce Donoff, DMD, MD
Dean of the Harvard School of Dental Medicine

David Golan, MD, PhD
Dean for Graduate Education

Lee Nadler, MD
Dean for Clinical and Translational Research

Nancy Oriol, MD
Dean for Students

Joan Reede, MD, MS, MPH, MBA
Dean for Diversity and Community Partnership

Nancy Tarbell, MD
Dean for Academic and Clinical Affairs

Administrative Deans
Richard G. Mills, JD
Executive Dean for Administration and Dean for Education and Global Program Administration

Wesley Benbow, MBA
Associate Dean for Finance and Chief Financial Officer

Gretchen Brodnicki, JD
Dean for Faculty and Research Integrity

Judith Glaven, PhD
Associate Dean for Basic and Interdisciplinary Research

John Halamka, MD
Chief Information Officer

Deborah Hicks
Associate Dean for Human Resources

Lisa Muto, PhD
Associate Dean for Institutional Planning and Policy

Susan Rapple
Dean for Resource Development

Richard Shea
Associate Dean for Physical Planning and Facilities

Gina Vild
Associate Dean for Communications and External Relations and Chief Communications Officer

Council of Academic Deans
Michael A. Gimbrone Jr., MD
Faculty Dean for Academic Programs, Partners HealthCare, and Chair of Partners Committee for Senior Appointments

Orah Platt, MD
Faculty Dean for Academic Programs, Children’s Hospital Boston

Barrett J. Rollins, MD, PhD
Faculty Dean for Academic Programs, Dana-Farber Cancer Institute

Vikas Sukhatme, MD, PhD
Faculty Dean for Academic Programs, Beth Israel Deaconess Medical Center

Heads of the Basic and Social Science Departments
Biological Chemistry and Molecular Pharmacology
Stephen Harrison, PhD (Acting Chair)

Cell Biology
Joan Brugge, PhD

Genetics
Clifford Tabin, PhD

Global Health and Social Medicine
Paul Farmer, MD, PhD

Health Care Policy
Barbara McNeil, MD, PhD
Microbiology and Molecular Genetics  
John Mekalanos, PhD

Neurobiology  
Michael Greenberg, PhD

Pathology  
Peter Howley, MD

Stem Cell and Regenerative Biology  
Douglas Melton, PhD (Co-chair)  
David Scadden, MD (Co-chair)

Systems Biology  
Marc Kirschner, PhD

Number of hospital-based clinical departments  50

Faculty
Total faculty  11,484
Tenure and tenure-track HMS faculty based on Quad  142
Voting faculty (assistant, associate and full professors)  4,642
Faculty instructors (full- and part-time)  6,842
Total full-time faculty  8,579
Trainees (resident physicians and postdoctoral fellows)  9,376
Howard Hughes Medical Institute investigators  28
National Academy of Sciences members (living)  67
Institute of Medicine members (living)  131

Students
Entering Class
MD (includes 13 MD–PhD students)  165
DMD  35
PhD  97
First-year MD Class
Applicants  5,324
Matriculants
men  92
women  74
States represented (plus Puerto Rico and Guam)  32
Foreign countries represented  10
Total Students Enrolled in Degree Programs
MD  725
PhD (Division of Medical Sciences)  569
MD–PhD in the Basic Sciences  138
in the Social Sciences  17
(included in MD and PhD totals above)
DMD  148

Additional Joint Degree Programs
MD–MBA
MD–Master of Public Health
MD–Master of Public Policy
Living Alumni (with MD) from classes of 1929–2010  9,206

Staff Members on Campus  1,530

MD Financial Aid (Fiscal Year 2010)
Average scholarship  $38,420
Annual unit loan  $24,500
Students receiving financial aid (excluding MD–PhD students)  81%
Students graduating with loans  111
Average loan debt on graduation  $113,943
Range of debt (Class of 2010)  $2,535–$276,409

Tuition and Fees (2010–2011)
Tuition  $45,050
Fees  $3,467

Continuing Education
Courses offered (including home-study courses)  370
New courses  40
Attendees  68,000
States represented (plus D.C. and Puerto Rico)  50
Countries represented  110

Affiliated Hospitals and Research Institutions
Beth Israel Deaconess Medical Center
Brigham and Women’s Hospital
Cambridge Health Alliance
Children’s Hospital Boston (whose Program in Cellular and Molecular Medicine forms the Immune Disease Institute)
Dana-Farber Cancer Institute
The Forsyth Institute
Harvard Pilgrim Health Care
Hebrew SeniorLife
Joslin Diabetes Center
Judge Baker Children’s Center
McLean Hospital
Massachusetts Eye and Ear Infirmary
Massachusetts General Hospital
Mount Auburn Hospital
Schepens Eye Research Institute
Spaulding Rehabilitation Hospital
VA Boston Healthcare System
Centers, Divisions and Institutes
Armenise–Harvard Foundation (which supports seven centers at HMS for collaborations between scientists at the School and leading institutions in Italy)
Center for Integration of Medicine and Innovative Technology (CIMIT)
Center of Excellence in Minority Health and Health Disparities at HMS
Dana-Farber/Harvard Cancer Center
Harvard Catalyst: The Harvard Clinical and Translational Science Center
Harvard Center for Immunodeficiency
Harvard Division of Health Policy Research and Education
Harvard Humanitarian Initiative
Harvard Mahoney Neuroscience Institute
Harvard Medical School Dubai Center
Harvard–MIT Division of Health Sciences and Technology
Harvard NeuroDiscovery Center
Harvard Skin Disease Research Center
HMS Center for Biomedical Informatics
HMS Center for Health and the Global Environment
HMS Center for Hereditary Deafness
HMS Center for Neurofibromatosis and Allied Disorders
HMS Center for Palliative Care
HMS Division for Research and Education in Complementary and Integrative Medical Therapies
HMS Division of AIDS
HMS Division of Emergency Medicine
HMS Division of Medical Ethics
HMS Division of Nutrition
HMS Division of Service Learning
HMS Division of Sleep Medicine
HMS Division on Primary Care
HSDM and HMS Center for Craniofacial Tissue Engineering
Juvenile Diabetes Research Foundation Center on Immunological Tolerance in Type 1 Diabetes at HMS
MIT/HMS Center for Magnetic Resonance
New England Primate Research Center
New England Regional Center of Excellence: Biodefense and Emerging Infectious Diseases (NERCE/BEID)

Library
The Countway Library comprises the Harvard Medical School Library and Boston Medical Library (www.countway.harvard.edu)

Users per day (walk in) 620
Users per day (web) 5,250

Holdings
Electronic journals >10,000
Databases for online services 149
Electronic textbooks 1,114
Monographs 213,328
Journal volumes 482,421

In the Library’s Center for the History of Medicine
Rare books—212,083, including:
Incunabula (European books printed before 1501)—800
European books, 16th–20th centuries
English books, 15th–20th centuries
American books, 18th–20th centuries
Medical Hebraica and Judaica, 14th–20th centuries
Medical library of Oliver Wendell Holmes—900 titles
Warren Library of early works in surgery—2,000 volumes
Friedrich Tiedemann collection of anatomy and physiology—4,000 items

Historical Collections in the History of Radiology
Manuscripts and archives—14,800 cubic feet, including:
Institutional archives of Harvard Medical School (founded 1782), Harvard School of Dental Medicine (1867), and Harvard School of Public Health (1922)
Records of the Boston Medical Library
Archives for Women in Medicine
Records of Professional associations, hospitals and organizations

Visual materials and artifacts, including:
Medical prints, photographs, glass plate negatives, and artwork—50,000
Storer collection of medical medals—4,000

Warren Anatomical Museum objects, 18th–20th centuries—9,000, including:
Anatomical and pathological preparations
Wax, paper mache, plaster and dry preparation anatomical models
Photographs, prints, lantern slides, paintings and drawings
Medical instruments and machines
Medical memorabilia
Skull and tampon iron of Phineas Gage
Phrenological collection of Johann Gaspar Spurzheim
Collection of the Boston Society for Medical Improvement
**Nobel Laureates**

Fifteen researchers have shared in nine Nobel prizes for work done at HMS.

- George Minot and William P. Murphy, 1934, *Physiology or Medicine*
  
  Research on liver treatment of the anemias

- Fritz A. Lipmann, 1953, *Physiology or Medicine*
  
  Identified coenzyme A and discovered basic principles of the way cells generate energy

  
  Application of tissue-culture methods to the study of viral diseases, such as polio

- Baruj Benacerraf, 1980, *Physiology or Medicine*
  
  Discovered genetically determined structures on the surface of immune system cells that regulate immunological reactions

- David Hubel and Torsten Wiesel, 1981, *Physiology or Medicine*
  
  Research on information processing in the visual system

- Herbert Abrams, Eric Chivian, and James Muller (with Bernard Lown of the Harvard School of Public Health), 1985, *Peace*
  
  Cofounders, with Evgeni Chazov, Leonid Ilyin and Mikhail Kuzin from the Soviet Union, of the International Physicians for the Prevention of Nuclear War

- Joseph E. Murray, 1990, *Physiology or Medicine*
  
  Developed procedures for organ and cell transplantation in humans

- Linda Buck**, 2004, *Physiology or Medicine*
  
  Discovered odorant receptors and the organization of the olfactory system, explaining the sense of smell

- Jack Szostak, 2009, *Physiology or Medicine*
  
  The discovery of how chromosomes are protected by telomeres and the enzyme telomerase

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* Robbins was awarded the Nobel Prize for work done while a member of the Harvard faculty. When the award was made, he was a member of the faculty of Western Reserve University.

** Buck was awarded the Nobel Prize for work done, in part, while a member of the Harvard faculty. When the award was made, she was a member of the faculty of Fred Hutchinson Cancer Research Center.

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**Finances**

**Budget (Fiscal Year 2010)**

$603,135,130

**Endowments**

June 2010

$3,132,386,924

* Named professorships 292

**Gifts (Fiscal Year 2010)**

Total gifts from individuals, corporations and foundations 113,763,436 (includes all gifts from all sources that benefit Harvard Medical School and its programs)

**First Gift**

In 1772, Ezekiel Hersey established two professorships in Anatomy and Physic (Medicine) at the yet-to-be established Medical School

**Research and Training Dollars (Fiscal Year 2010)**

Total sponsored $260,058,200

Total sponsored $243,398,764

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**Buildings on Campus**

**South Quad**

Main Quadrangle, opened 1906

Harvard School of Dental Medicine, 1867

Francis A. Countway Library of Medicine, 1965 (re-dedicated 2000)

Laboratory for Human Reproduction and Reproductive Biology, 1972

Seeley G. Mudd Building, 1977

Tosteson Medical Education Center, 1987 (named 1997)

Warren Alpert Building, 1992

Goldenson Building Renovations, 1994

Armenise Building (named 2000)

Gordon Hall of Medicine (named 2000)

Jeffrey Modell Immunology Center, 2007

**North Quad**

Harvard Institutes of Medicine, 1996

Vanderbilt Hall (student residence), 1927

New Research Building, 2003

Joseph B. Martin Conference Center (named 2007)
Energy Use and Emissions, 2007–2010
Harvard University President Drew Faust has set a target of reducing University greenhouse gas emissions by 30% over 10 years, from 2006 to 2016, including all new growth.

The units of energy expenditure and emissions below indicate the amount of energy used on select buildings on the Medical School’s Longwood campus and the global-warming potential that this expenditure represents. The first unit listed—MTCDE—is metric tons (1,000 kg) of carbon dioxide equivalents, a measure of the global-warming potential of emitted carbon dioxide and other greenhouse gases. The second—mmBtu—is one million British thermal units, a standard measure of heat energy. Finally, kBtu/GSF is thousands of British thermal units per gross square foot.

<table>
<thead>
<tr>
<th>Buildings with gross square feet (GSF)</th>
<th>Units of Emissions and Energy Expenditure</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Countway Library</td>
<td>MTCDE</td>
<td>2,126</td>
<td>2,289</td>
<td>2,164</td>
<td>1,920</td>
</tr>
<tr>
<td></td>
<td>mmBtu</td>
<td>33,884</td>
<td>35,205</td>
<td>32,207</td>
<td>28,534</td>
</tr>
<tr>
<td></td>
<td>kBtu/GSF</td>
<td>219</td>
<td>227</td>
<td>208</td>
<td>184</td>
</tr>
<tr>
<td>Gordon Hall</td>
<td>MTCDE</td>
<td>863</td>
<td>901</td>
<td>990</td>
<td>805</td>
</tr>
<tr>
<td>72,877 GSF</td>
<td>mmBtu</td>
<td>10,415</td>
<td>10,793</td>
<td>12,376</td>
<td>10,068</td>
</tr>
<tr>
<td></td>
<td>kBtu/GSF</td>
<td>143</td>
<td>148</td>
<td>170</td>
<td>138</td>
</tr>
<tr>
<td>New Research Building</td>
<td>MTCDE</td>
<td>18,619</td>
<td>18,304</td>
<td>15,447</td>
<td>14,728</td>
</tr>
<tr>
<td>650,383 GSF</td>
<td>mmBtu</td>
<td>226,232</td>
<td>211,061</td>
<td>180,625</td>
<td>165,045</td>
</tr>
<tr>
<td></td>
<td>kBtu/GSF</td>
<td>348</td>
<td>325</td>
<td>279</td>
<td>254</td>
</tr>
<tr>
<td>Tosteson Medical Education Center</td>
<td>MTCDE</td>
<td>2,127</td>
<td>2,248</td>
<td>2,200</td>
<td>2,659</td>
</tr>
<tr>
<td>180,027 GSF</td>
<td>mmBtu</td>
<td>31,482</td>
<td>32,475</td>
<td>30,782</td>
<td>38,657</td>
</tr>
<tr>
<td></td>
<td>kBtu/GSF</td>
<td>175</td>
<td>180</td>
<td>171</td>
<td>215</td>
</tr>
<tr>
<td>Vanderbilt Hall</td>
<td>MTCDE</td>
<td>1,243</td>
<td>1,172</td>
<td>1,192</td>
<td>1,068</td>
</tr>
<tr>
<td>165,816 GSF</td>
<td>mmBtu</td>
<td>16,747</td>
<td>15,371</td>
<td>15,732</td>
<td>14,315</td>
</tr>
<tr>
<td></td>
<td>kBtu/GSF</td>
<td>101</td>
<td>93</td>
<td>95</td>
<td>86</td>
</tr>
<tr>
<td>Total for HMS</td>
<td>MTCDE</td>
<td>46,206</td>
<td>47,344</td>
<td>44,409</td>
<td>43,261</td>
</tr>
<tr>
<td>On-campus Buildings**</td>
<td>mmBtu</td>
<td>629,703</td>
<td>629,736</td>
<td>583,896</td>
<td>569,135</td>
</tr>
<tr>
<td></td>
<td>kBtu/GSF</td>
<td>274</td>
<td>274</td>
<td>254</td>
<td>247</td>
</tr>
</tbody>
</table>

* Energy use figures for 2010 include revised GSFs and adjustments for leased space. Data for 2007, 2008 and 2009 were normalized to include 2010 revisions and adjustments.

** On-campus buildings are those on the main campus in Boston. Energy use figures do not include those for the offices occupied by the Department of Social Medicine (now Global Health and Social Medicine) at the Prudential Center in 2008 during renovation of its on-campus space at 641–643 Huntington Ave.
### Sustainability Snapshot
#### Fiscal Year 2010

<table>
<thead>
<tr>
<th>Campus*</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross square feet (GSF)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY06</td>
<td>2,300,423</td>
<td></td>
</tr>
<tr>
<td>FY10</td>
<td>2,300,423</td>
<td></td>
</tr>
</tbody>
</table>

* Includes buildings on the Longwood campus only

<table>
<thead>
<tr>
<th>Population</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FY06</td>
<td>3,480</td>
</tr>
<tr>
<td>FY10</td>
<td>3,401</td>
</tr>
</tbody>
</table>

### Greenhouse Gas (GHG) Emissions

<table>
<thead>
<tr>
<th>HMS overall emissions</th>
<th>MTCDE*</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY06</td>
<td>45,864</td>
<td>N/A</td>
</tr>
<tr>
<td>FY10</td>
<td>43,261</td>
<td>-6%</td>
</tr>
</tbody>
</table>

* Metric tons (1,000 kg) of carbon dioxide equivalents

### Energy

<table>
<thead>
<tr>
<th>kBTU*/ GSF</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY06</td>
<td>275</td>
</tr>
<tr>
<td>FY10</td>
<td>247</td>
</tr>
</tbody>
</table>

* Thousands of British thermal units

### Energy Investments

<table>
<thead>
<tr>
<th>Investments</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FY06</td>
<td>$845,886</td>
</tr>
<tr>
<td>FY10</td>
<td>$678,000</td>
</tr>
</tbody>
</table>

* After rebates, projects funded by HMS Facilities

### Waste Reduction

<table>
<thead>
<tr>
<th>Recycling rate</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FY06</td>
<td>41%</td>
</tr>
<tr>
<td>FY10</td>
<td>51%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solid waste total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FY06</td>
<td>2,349 tons</td>
</tr>
<tr>
<td>FY10</td>
<td>1,917 tons</td>
</tr>
</tbody>
</table>

### LEED

<table>
<thead>
<tr>
<th># LEED* Projects</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FY06</td>
<td>0</td>
</tr>
<tr>
<td>FY10</td>
<td>2 Certified</td>
</tr>
</tbody>
</table>

* Leadership in Energy and Environmental Design

**Locations**

DePace Lab—Systems Biology Department *(certified Gold)*
641 Huntington Ave.—Global Health and Social Medicine Department *(certified Gold)*

### Procurement

<table>
<thead>
<tr>
<th>% of recycled content paper purchases*</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FY09</td>
<td>43%</td>
</tr>
<tr>
<td>FY10</td>
<td>46%</td>
</tr>
</tbody>
</table>

* Percentage of total OfficeMax product purchases
Jeffrey S. Flier was named the 21st dean of the Faculty of Medicine at Harvard University on July 11, 2007. An endocrinologist and an authority on the molecular causes of obesity and diabetes, Flier is also the Caroline Shields Walker professor of medicine at Harvard Medical School. Previously, he served as the HMS faculty dean for academic programs and chief academic officer for Beth Israel Deaconess Medical Center, an HMS-affiliated teaching hospital.

Flier is one of the country’s leading investigators in the areas of obesity and diabetes. His research has produced major insights into the molecular mechanism of insulin action, the mechanisms of insulin resistance in human disease, and the molecular pathophysiology of obesity.

Born in New York City, Flier received a BS from City College of New York in 1968 and an MD from Mount Sinai School of Medicine in 1972, graduating with the Elster Award for Highest Academic Standing. Following residency training in internal medicine at Mount Sinai Hospital from 1972 to 1974, he moved to the National Institutes of Health as a clinical associate. In 1978, he joined the Faculty of Medicine at HMS, serving as chief of the Diabetes Unit at Beth Israel until 1990, when he was named chief of the hospital’s Endocrine Division.

In 2002, Flier was named chief academic officer of Beth Israel Deaconess Medical Center, a newly created senior position responsible for research and academic programs. He worked with the center’s academic department chairs to ensure the quality and breadth of academic programs, through which most HMS students passed. He also served as the formal liaison to HMS, sitting on the Council of Academic Deans.

Flier has authored more than 200 scholarly papers and reviews and has held a variety of editorial positions. He is a fellow of the Institute of Medicine of the National Academy of Sciences. Flier is also a fellow of the American Association for the Advancement of Science and of the American Academy of Arts and Sciences.