

# **Northwestern University The Feinberg School of Medicine**

## **Fact Book**

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# The Feinberg School of Medicine

## At a Glance 2007-2008

### *Faculty*

**1,312 Full-time**  
**1,061 Volunteer and part time**  
**297 Research track**

### *Students*

**695 Medical**  
**1,000 Residents/Fellows**  
**270 Postdoctoral fellows**  
**240 Graduate students**  
**200 Graduate professional students**  
**120 Master's students**

### *Financing*

<b>Operating Revenues</b>	<b>\$1,167M</b>
<b>Endowment Base<sup>1</sup></b>	<b>\$1,373M</b>
<b>Sponsored Research</b>	<b>\$321M</b>

### *Academic Space*

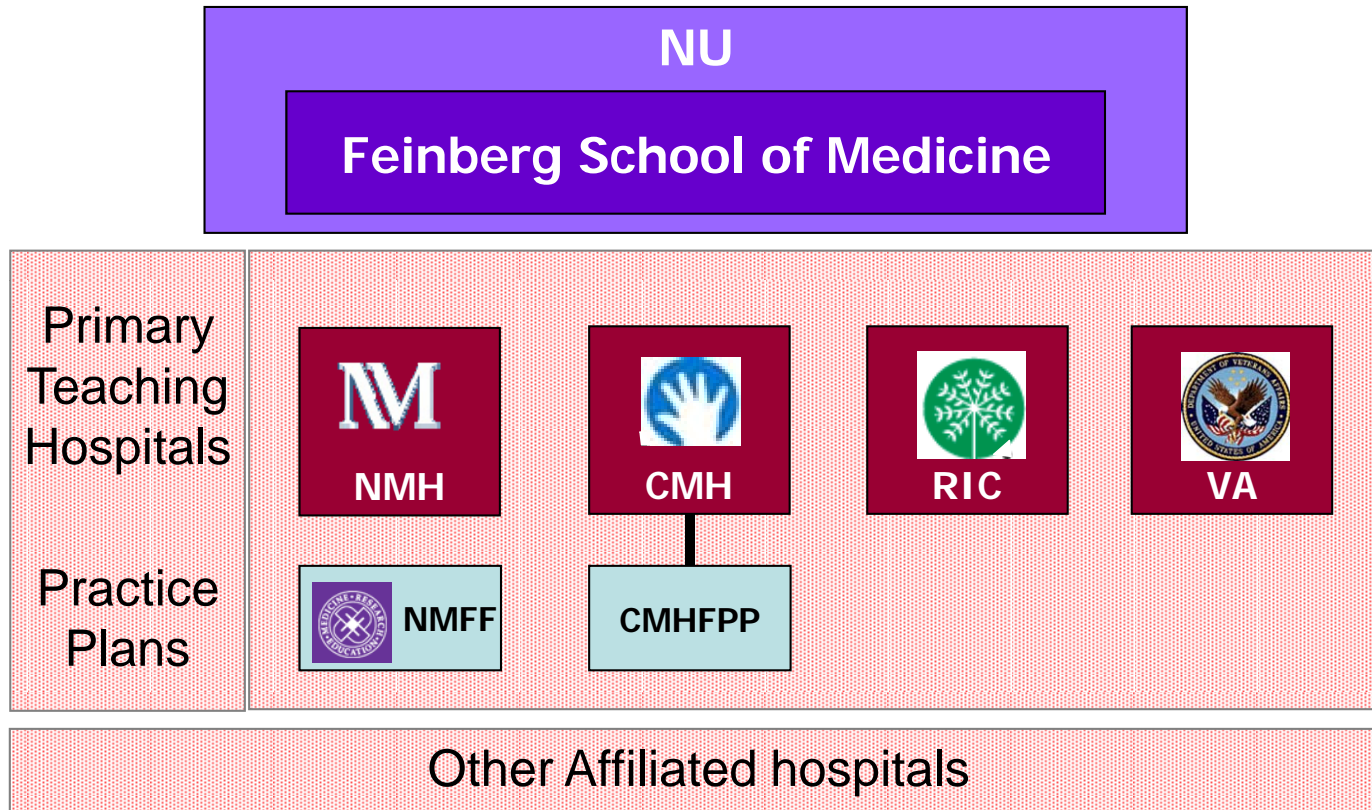
**860,000 net sq. ft.**  
**570,000 for research**

### *Academic Units*

**5 Basic science departments**  
**20 Clinical departments**  
**16 Centers and Institutes**

<sup>1</sup> –as of 8/31/2008

# Northwestern Academic Medical Center



**LEGEND:**

NMH: Northwestern Memorial Hospital  
CMH: Children's Memorial Hospital  
CMHFPP CMH faculty practice plans (multiple)

NMFF: Northwestern Medical Faculty Foundation  
RIC: Rehabilitation Institute of Chicago  
VA: VA Chicago Healthcare System

# **Academic Programs**

# Medical and Graduate Education Programs

- **Medical Students**

Regular track

Honors Program in Medical Education (BA-MD)

- **Joint Degree Programs**

- MD-PhD (Medical Scientist Training Program)
- MD-MPH
- PhD-MPH
- MD-MM (with Kellogg School of Management)

- **Graduate Research Programs (PhD)**

- Integrated Graduate Program in the Life Sciences
- Northwestern University Institute for Neuroscience
- Northwestern University Biomedical Engineering

# Medical and Graduate Education Programs

(continued)

- **Residents and Fellows**

- Integrated McGaw Medical Center GME
- 69 ACGME Approved Programs

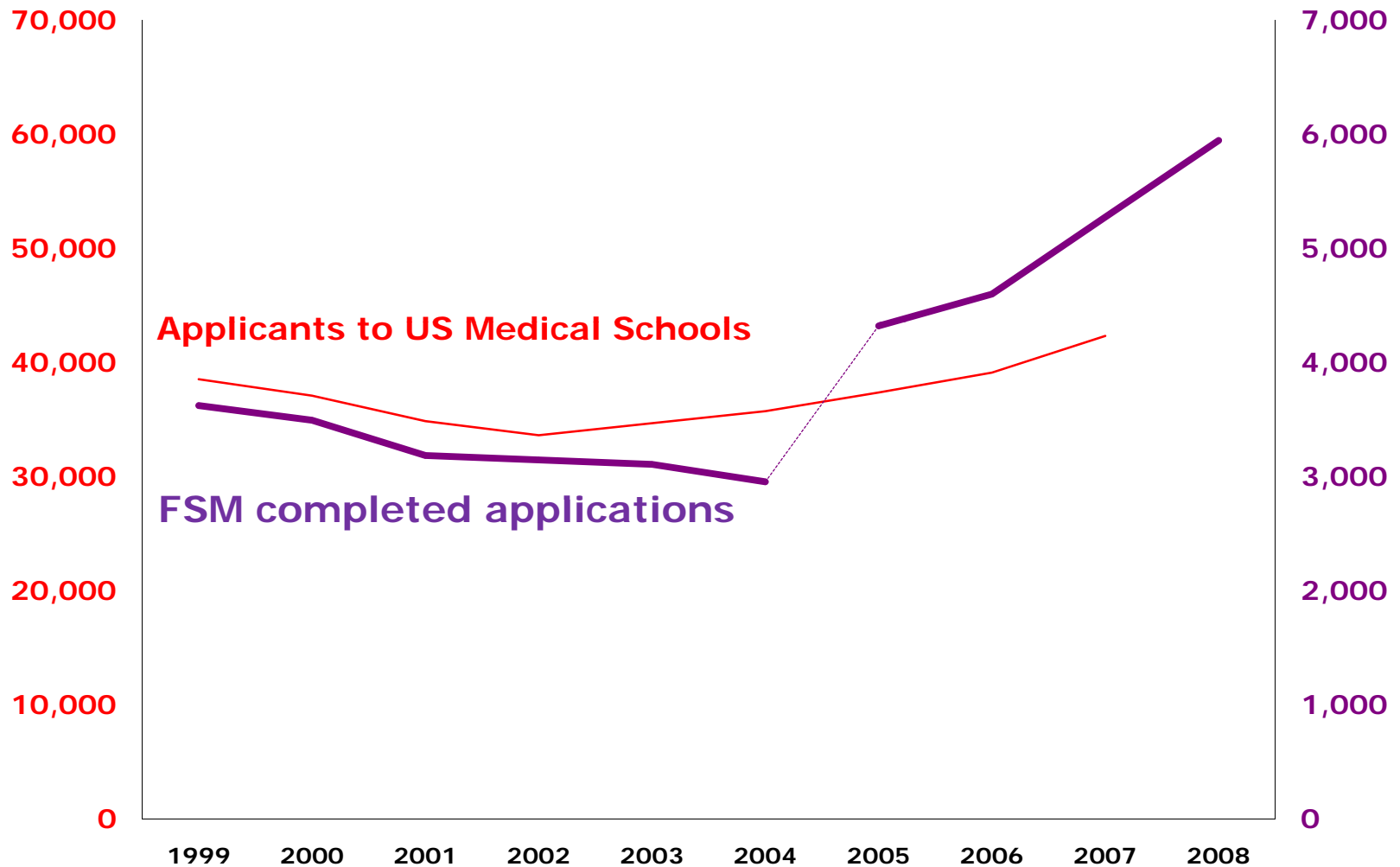
- **Graduate Professional Programs**

- Clinical Psychology (PhD)
- Physical Therapy (DPT)
- Physical Therapy-Biomedical Engineering (DPT-PhD)
- Public Health (MPH)
- Genetic Counseling (MS)
- Clinical Investigation (MS)
- Epidemiology and Biostatistics (MS)
- Healthcare Quality and Patient Safety (MS, certificate)
- Medical Humanities and Bioethics (MA)
- Prosthetics and Orthotics (certificate)
- Clinical Embryology (MS)

# **Medical Student Profile**

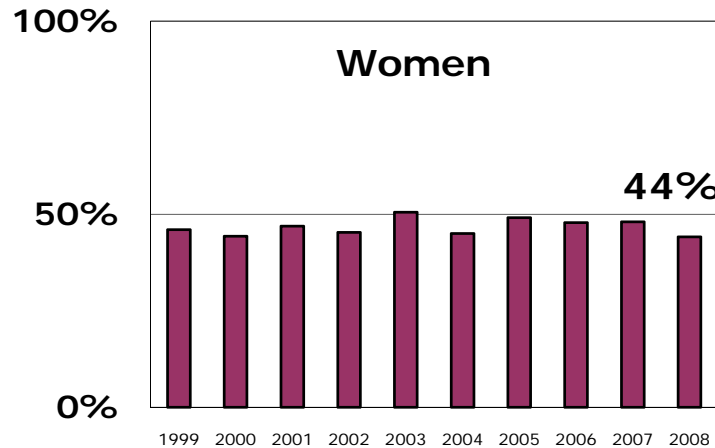
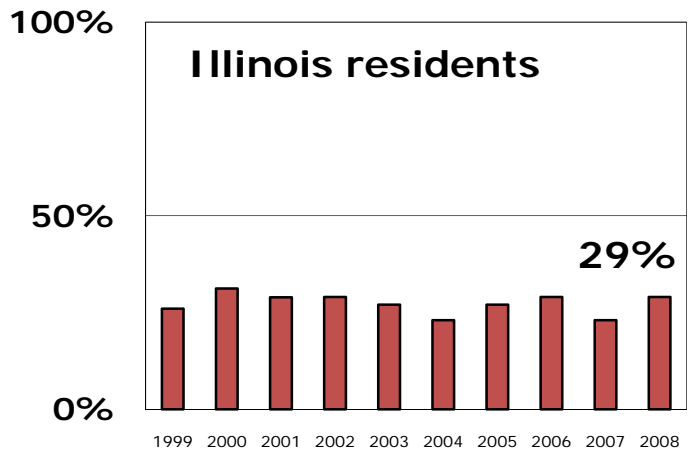
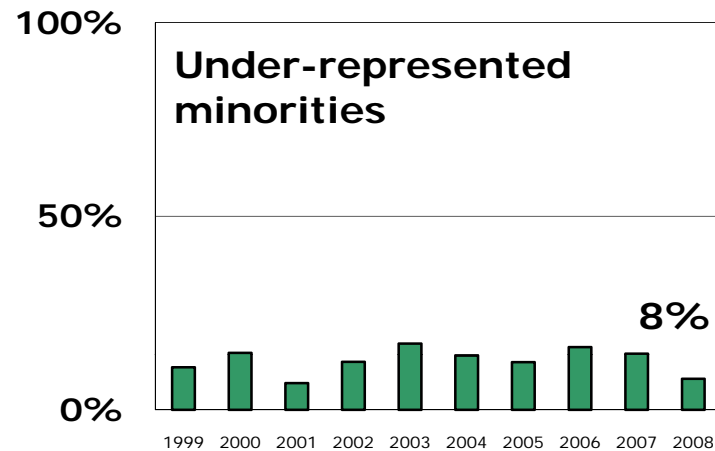
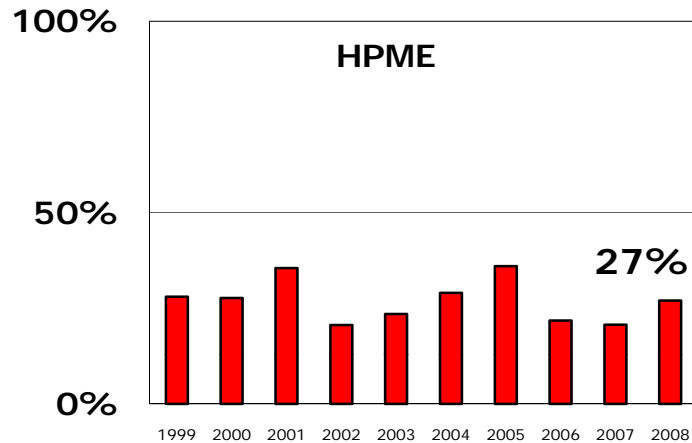
- **Applicants**
- **Matriculants**
- **Student Debt**
- **Student Performance**

# Trends in medical student applications



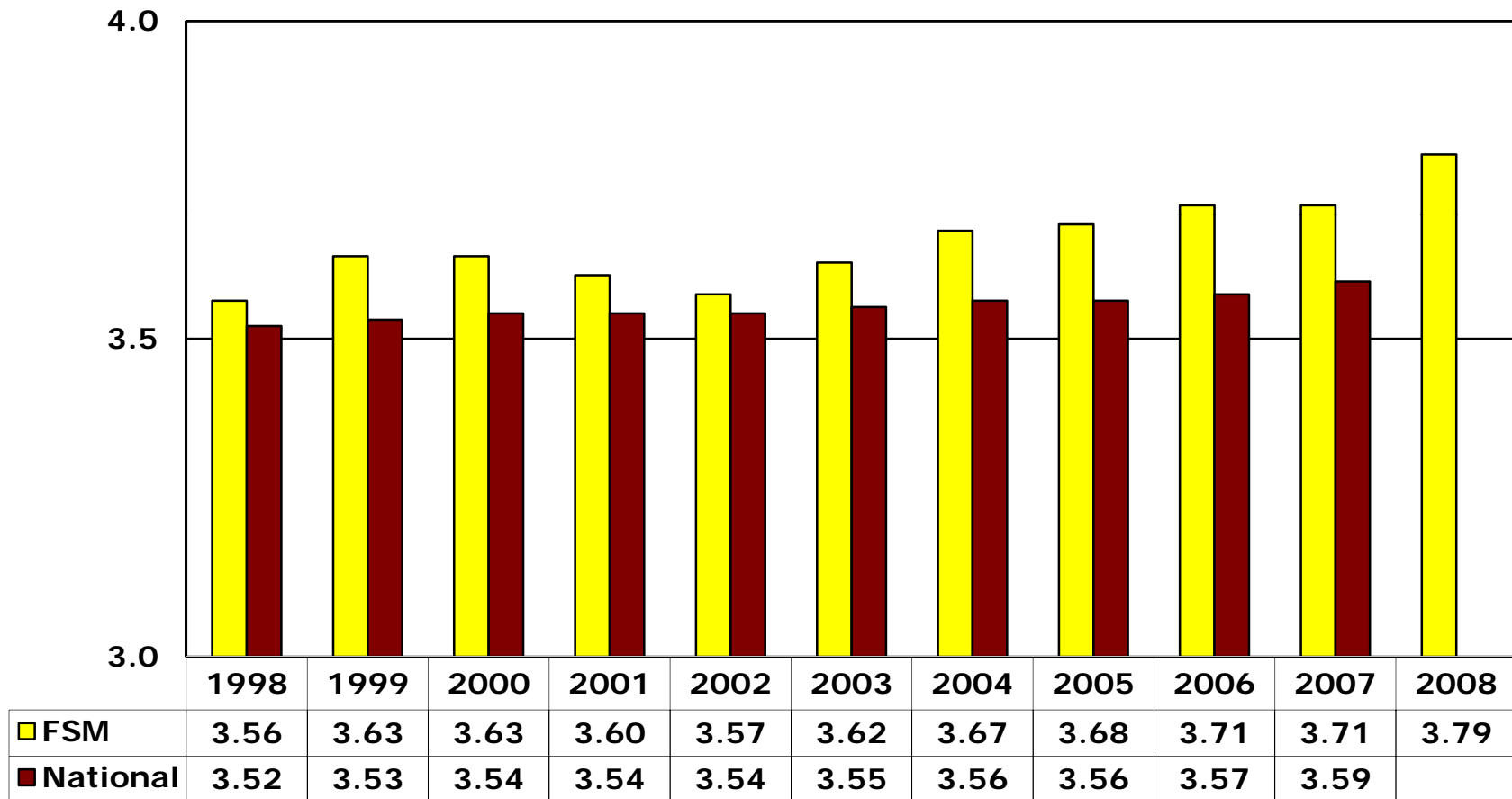
In 2005, FSM changed its application process, so the spike in applications is not meaningful.

# FSM matriculant demographics 2008



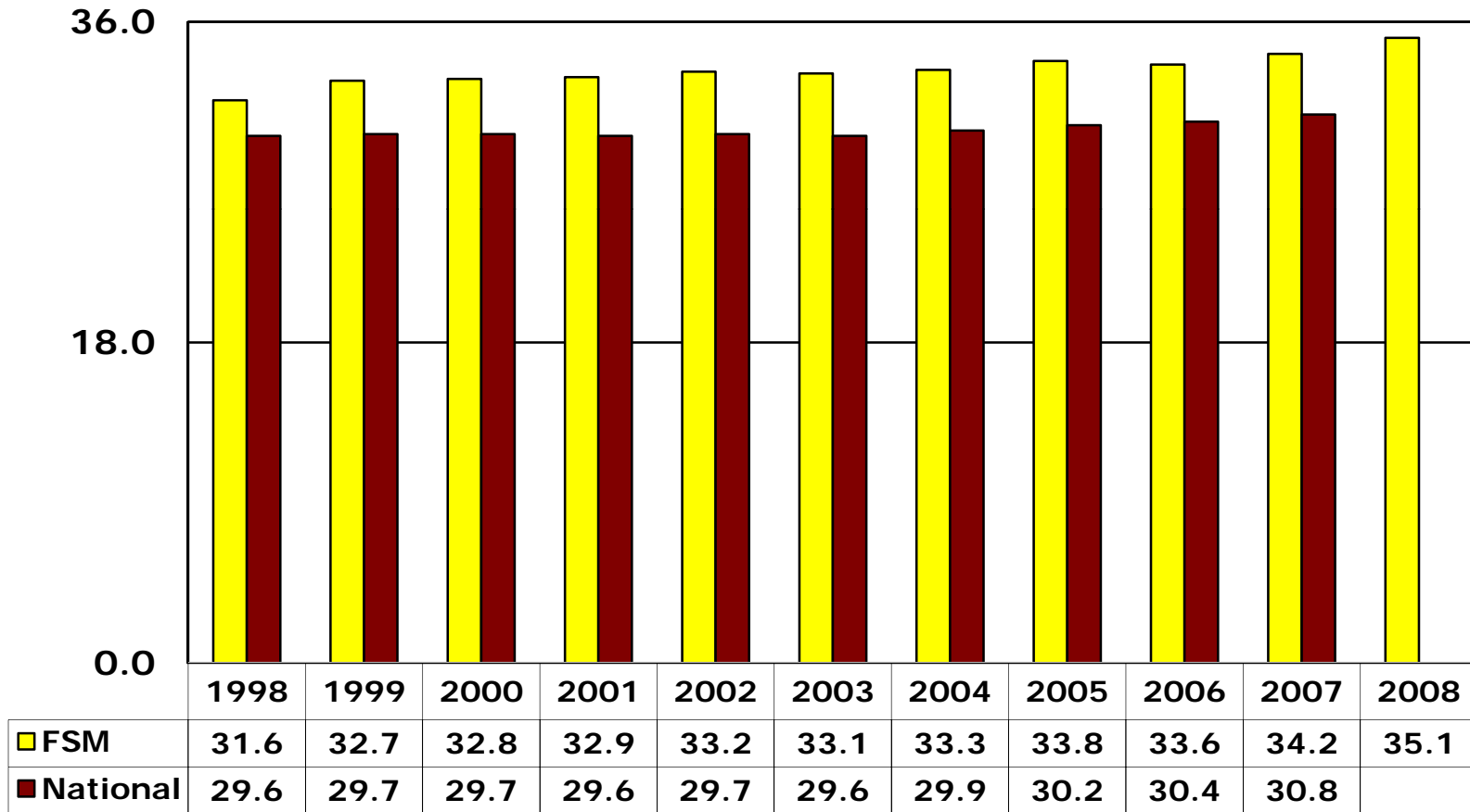
Percentages based on 170 matriculants

# Comparative performance of matriculants: Mean undergraduate science GPA

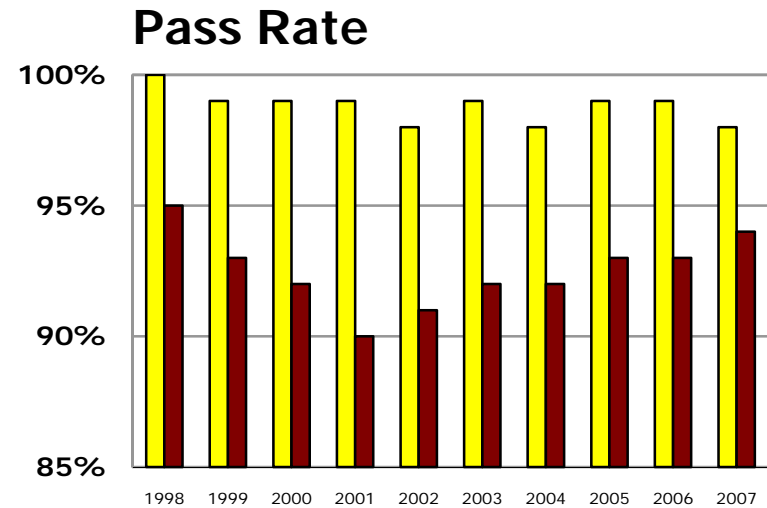
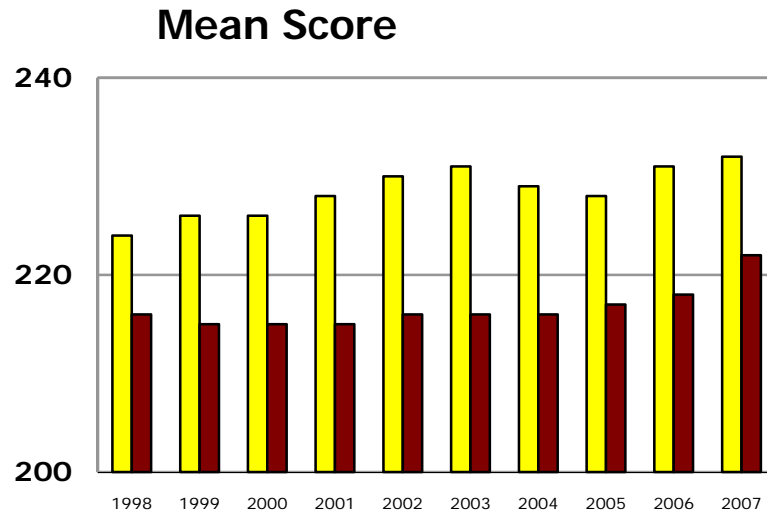


# Comparative performance of matriculants: Combined mean MCAT Score

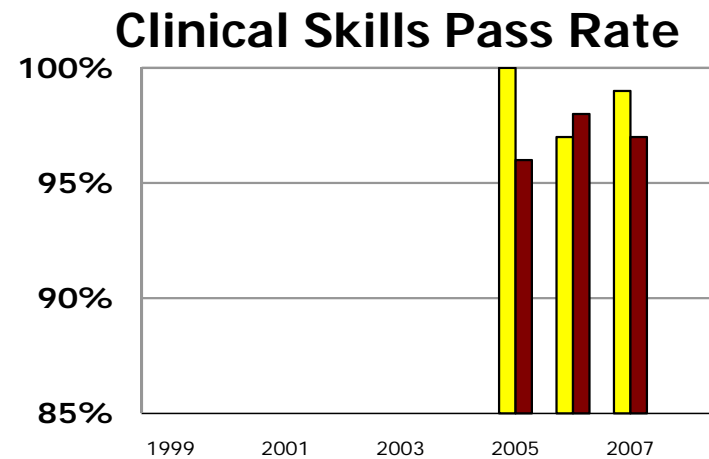
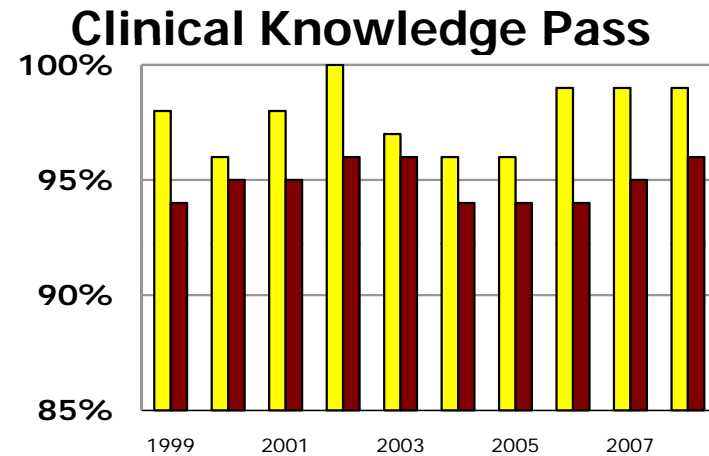
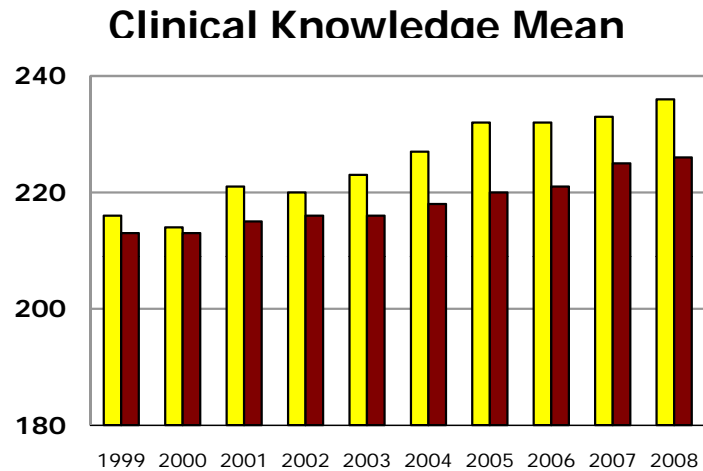
(Biological sciences, physical sciences, verbal reasoning)



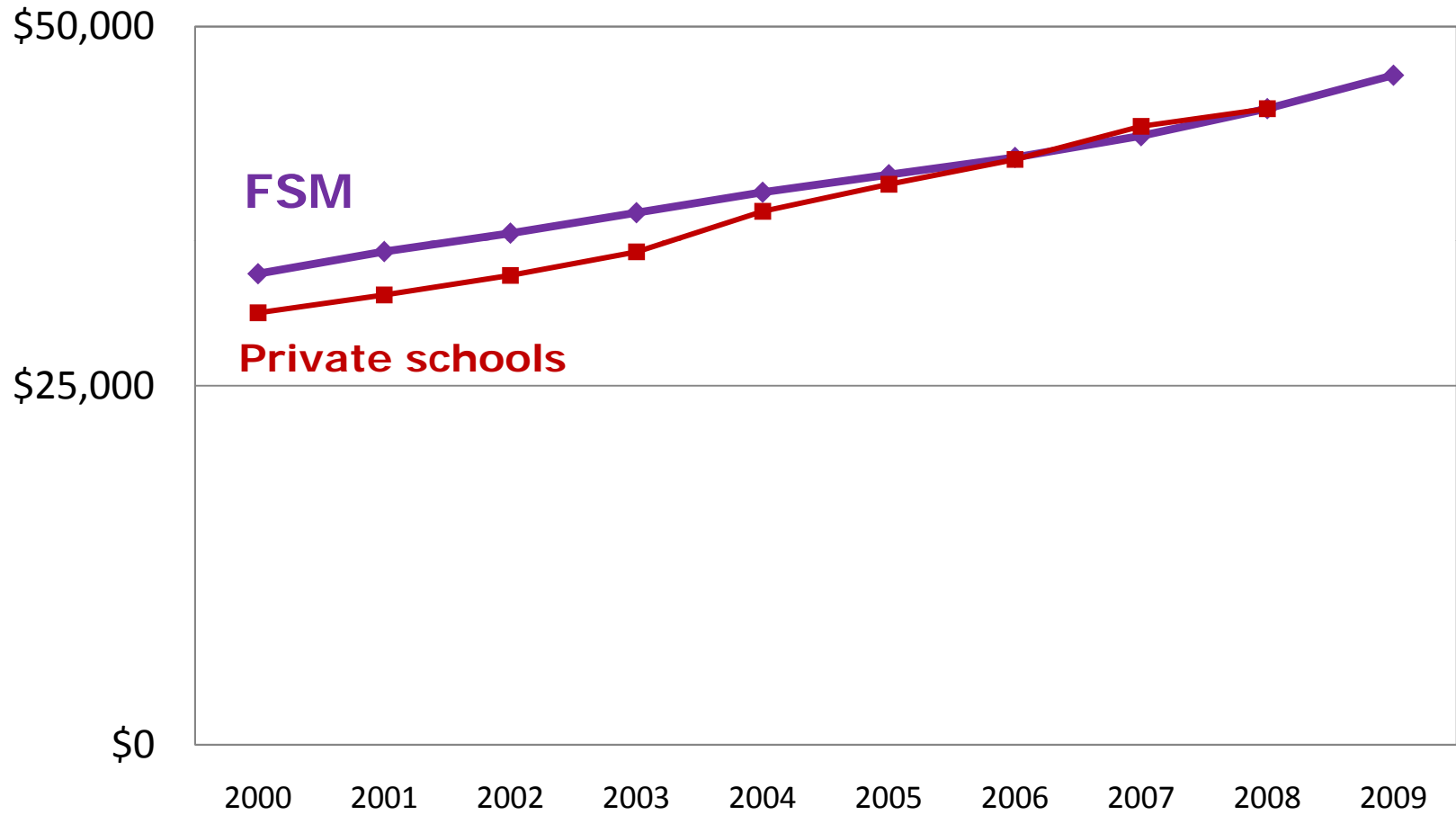
# Medical student benchmarks: First-time takers on USMLE Step 1



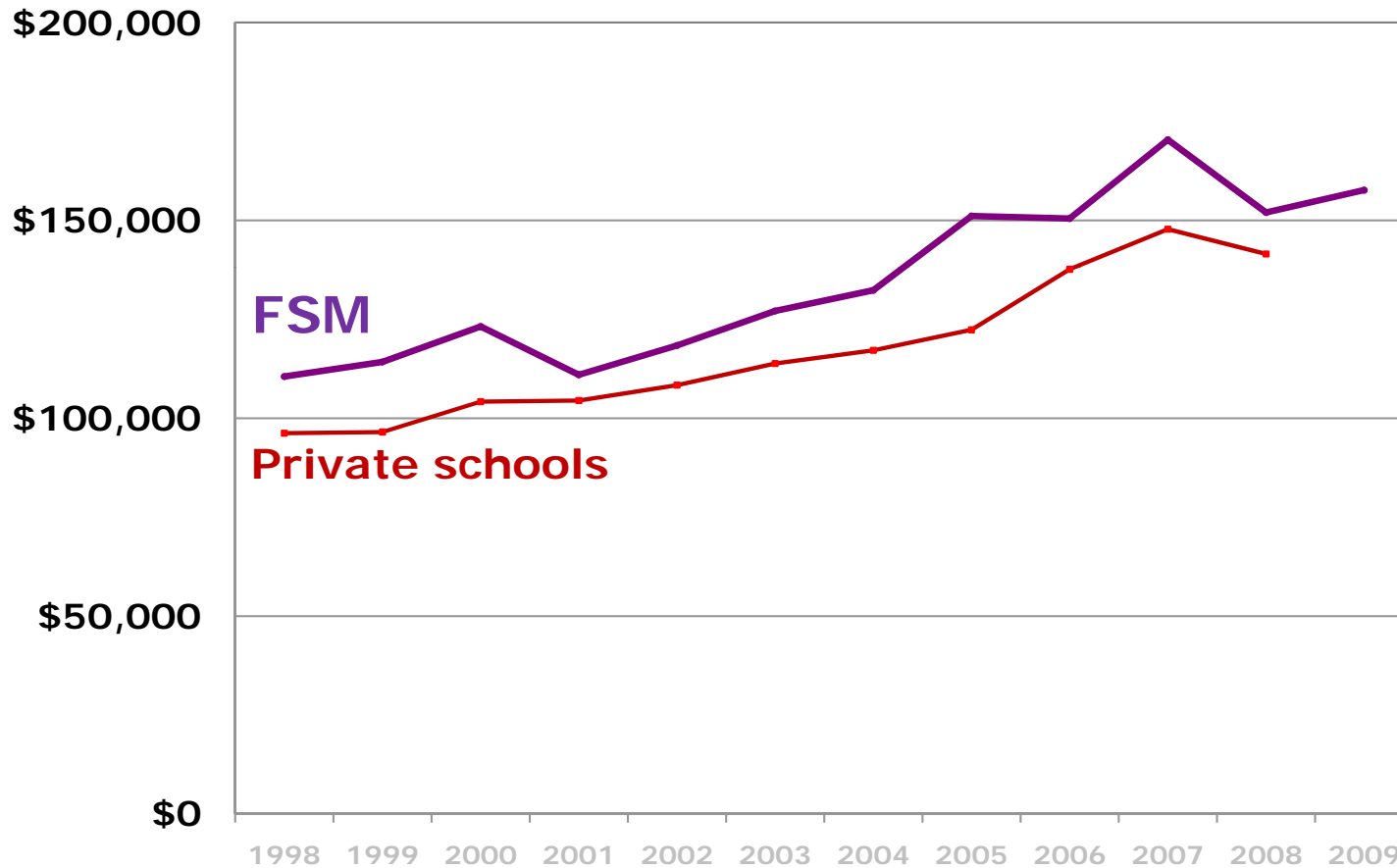
# Medical student benchmarks: First-time takers on USMLE Step 2



# Tuition and Fees



# Mean Educational Debt of Indebted Medical School Graduates

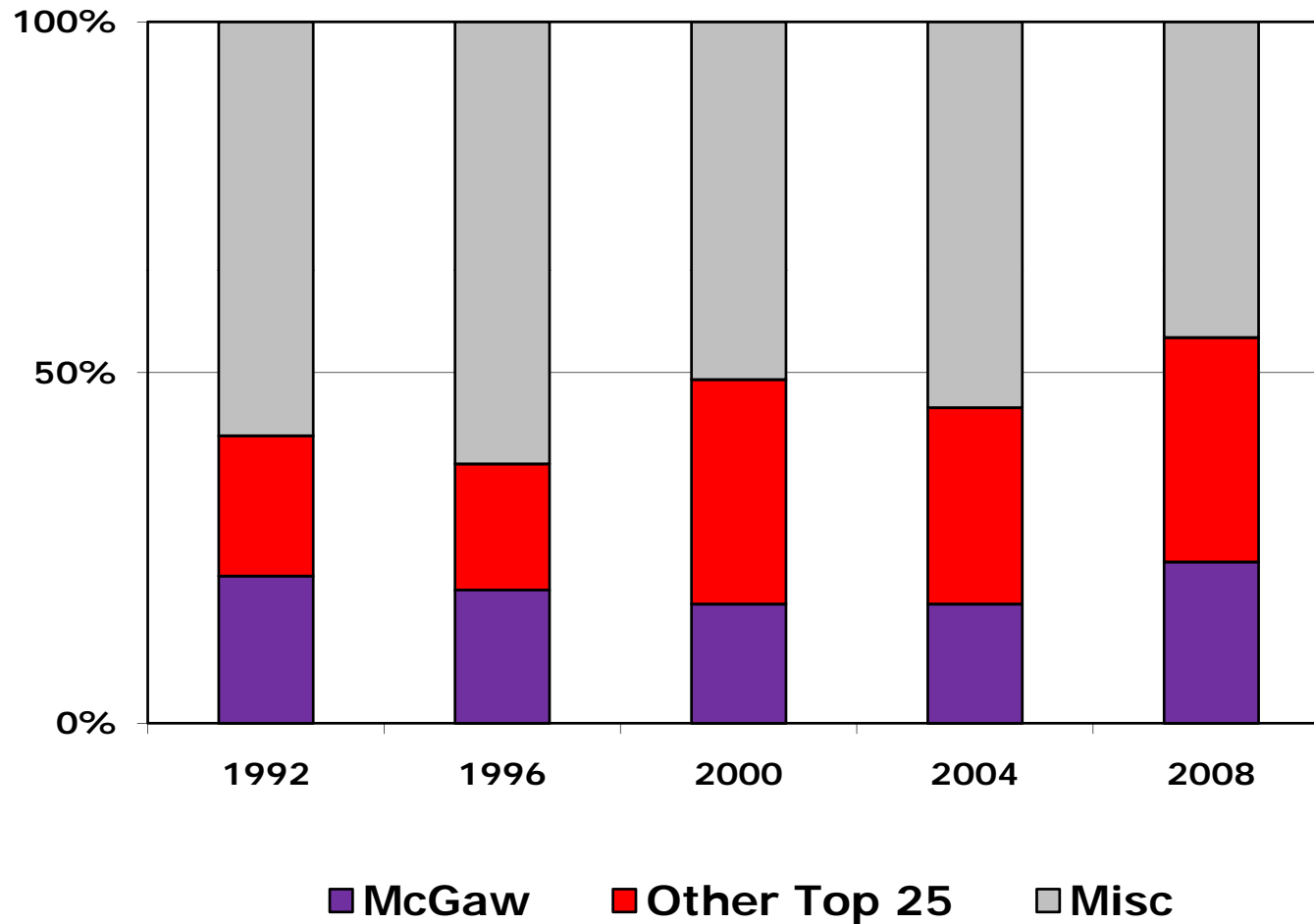


# **Graduate Medical Education and PhD Training**

## **Graduate Medical Education 2006**

- **One of the largest GME enterprises in the U.S.**
  - 994 total trainees in 104 programs
- **Residents**
  - 763 in 30 ACGME-approved programs
  - 8 in 3 other programs
- **Fellows**
  - 177 in 39 ACGME-approved programs
  - 54 in 32 other programs

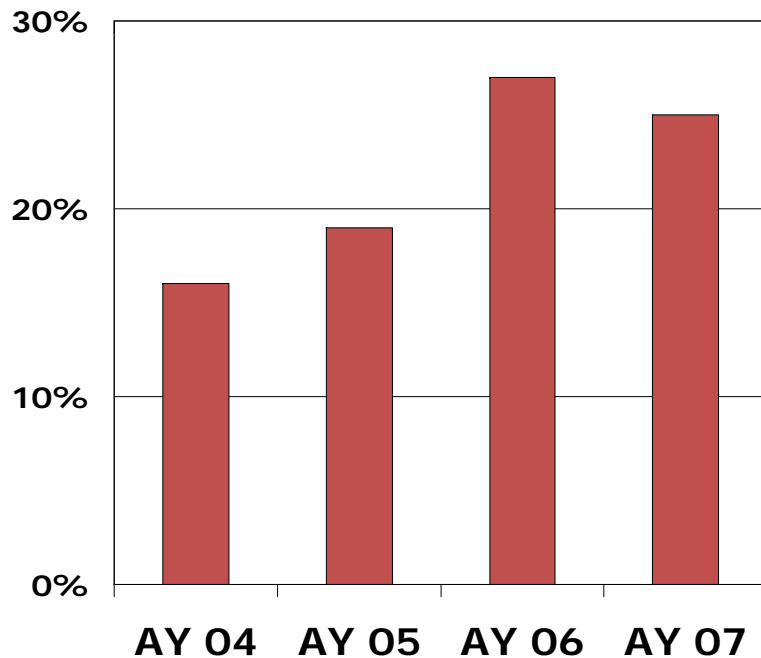
# Residency Destinations Feinberg Graduates



# Some quality indicators for resident recruitment

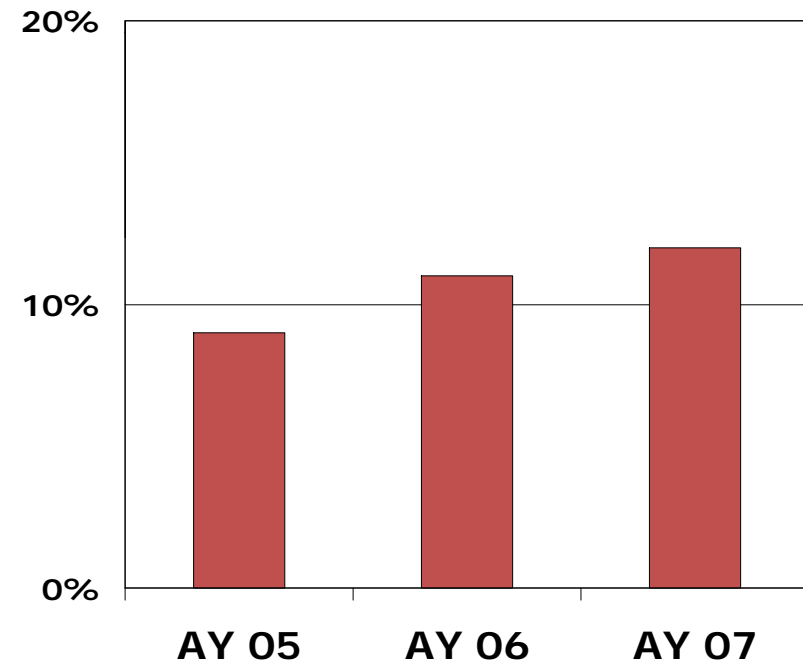
## Alpha Omega Alpha (AOA) national medical honor society members

A maximum of 1/6 (17%) of students at US medical schools may be inducted.

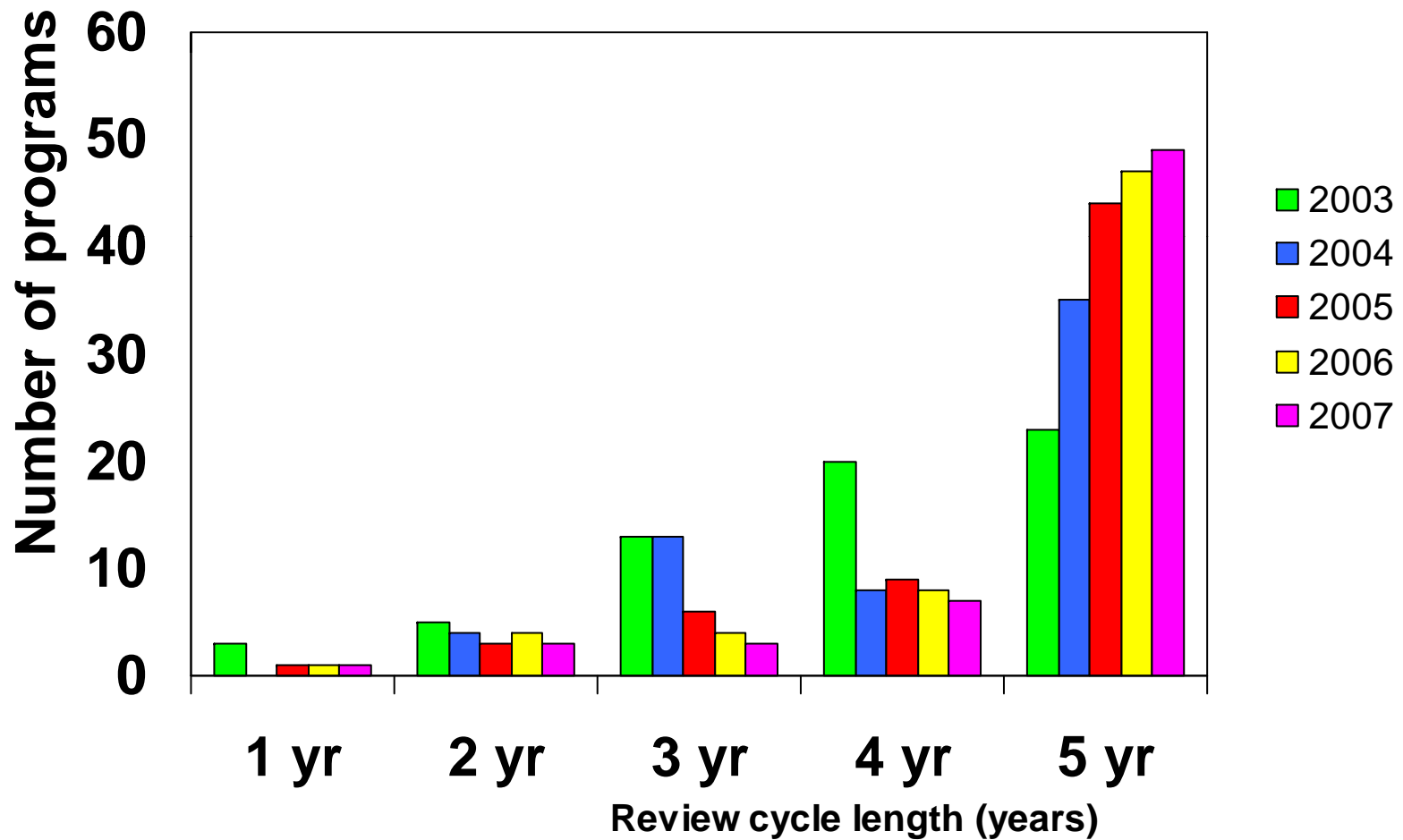


## AOA and Top 25 medical school

Graduates of top medical schools who are also AOA graduates are the best of the best.



# Graduate Medical Education Accreditation Cycle for All Programs: Years 2003-2006



# Graduate and graduate professional programs

<u>Degree program</u>	<u>Students</u>
• Integrated Graduate Program (PhD)	183
• Medical Scientist Training Program (MD-PhD)	96
• Physical Therapy (DPT)	206
• Clinical Psychology (PhD)	32
• Genetic Counseling (MS)	18
• Public Health (MPH)	18
Also MD-MPH	60
Also PhD-MPH	14
• Clinical Investigation Training Program (MSCI)	75

Also Neuroscience PhD with NU Institute for Neuroscience, Biomedical Engineering PhD with NU McCormick School of Engineering and Applied Science

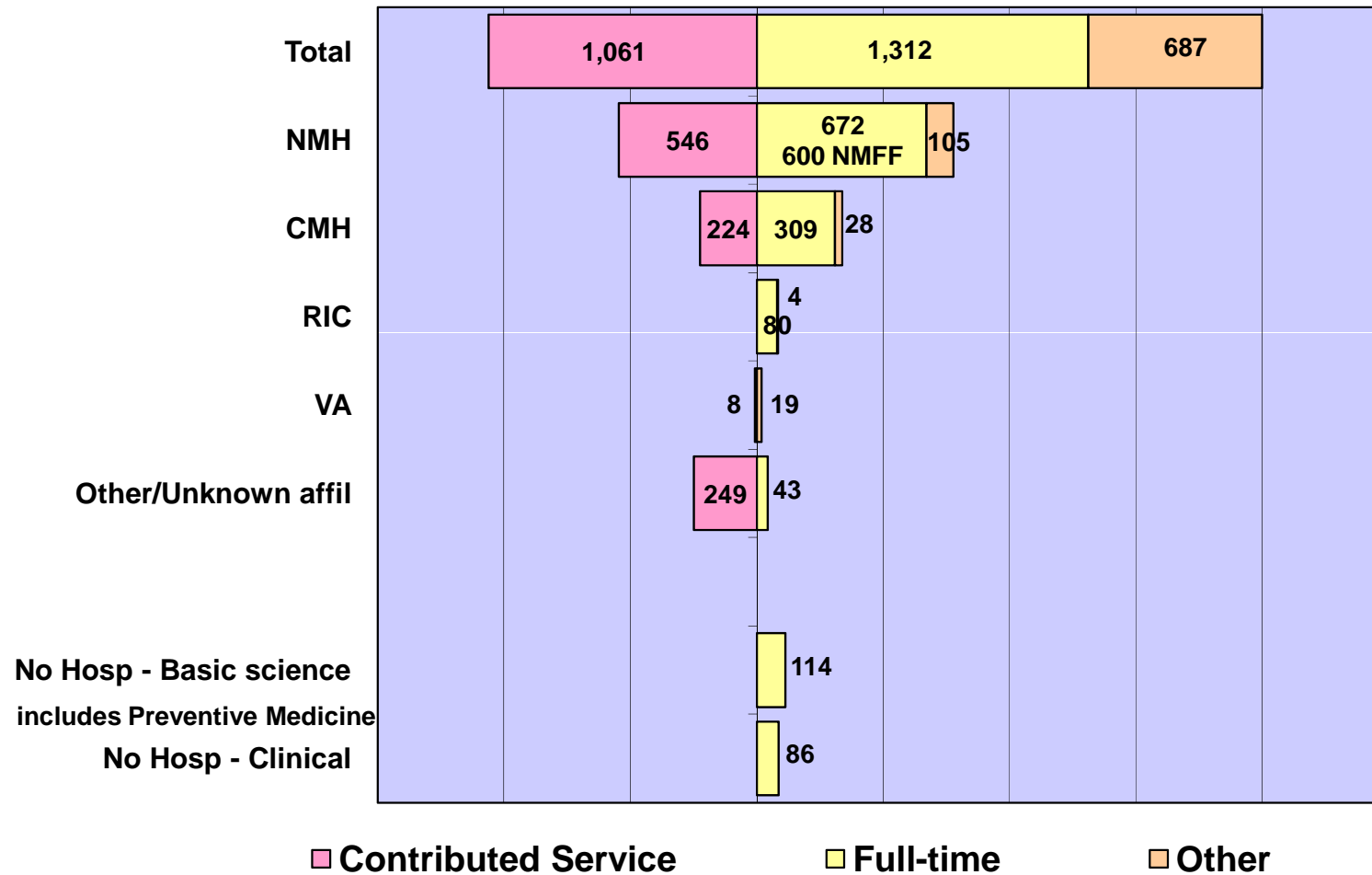
# Galter Health Sciences Library

	<i>FY96</i>	<i>FY01</i>	<i>FY06</i>	<i>Nat'l Avg (05)</i>
<b><i>Prof Staff</i></b>	15	12	16	12
<b><i>Total Staff</i></b>	34	19	30	36
<b><i>Serial Titles</i></b>	2,182	2,411	7,171	7,488
<b><i>Total Vols</i></b>	291,524	280,242	283,075	236,059
<b><i>Gate Count</i></b>	209,312 (est)	482,173	485,848	252,532
<b><i>Ill Borrow</i></b>	12,672	10,964	9,017	5,471
<b><i>Collection \$</i></b>	\$1,022,675	\$1,003,556	\$1,835,646	\$1,460,469
<b><i>Recurring \$</i></b>	\$2,061,850	\$2,379,531	\$3,376,180	\$3,096,921

# Faculty

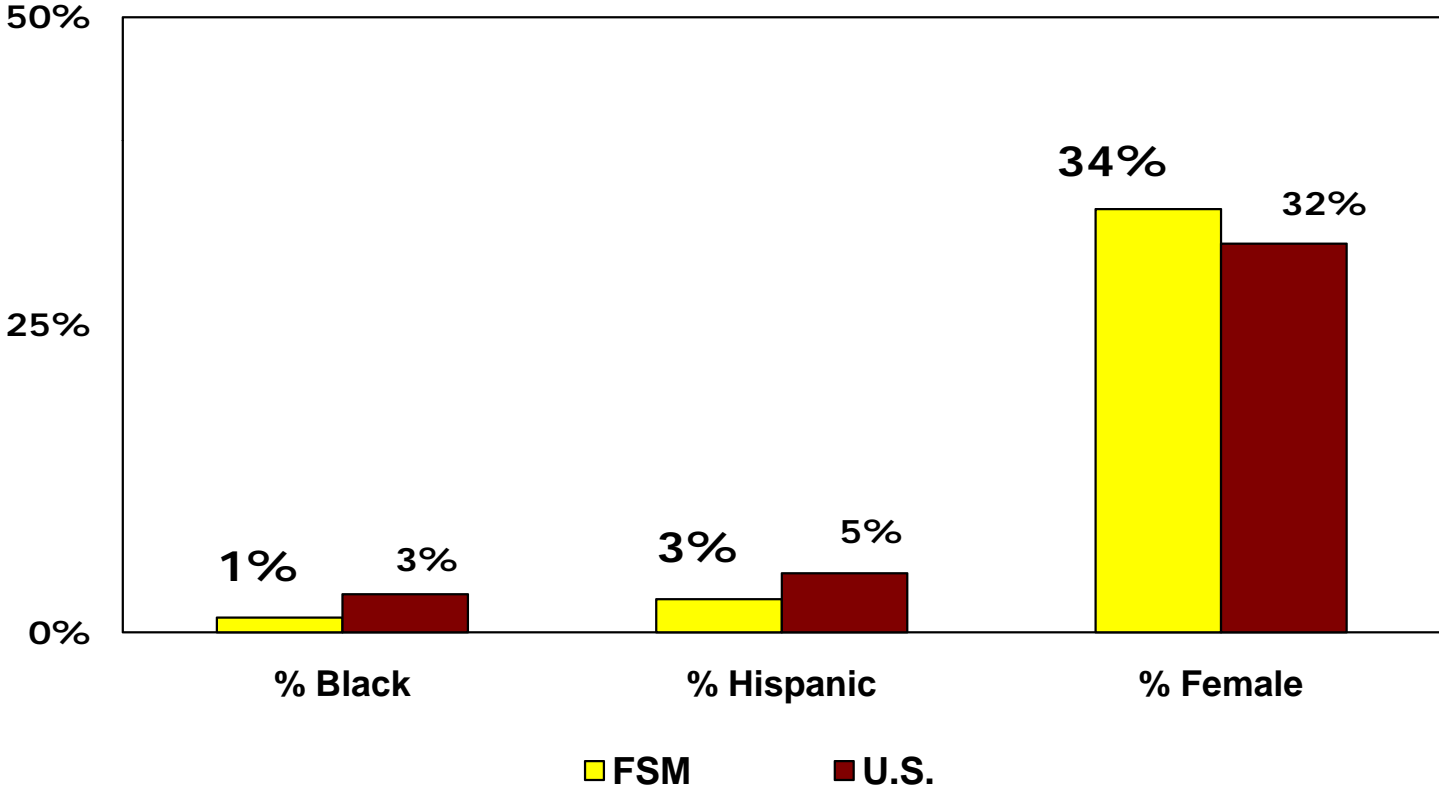
- **Numbers and types**
- **Diversity**
- **Faculty system**

# Distribution and Organization of 3,060 Faculty



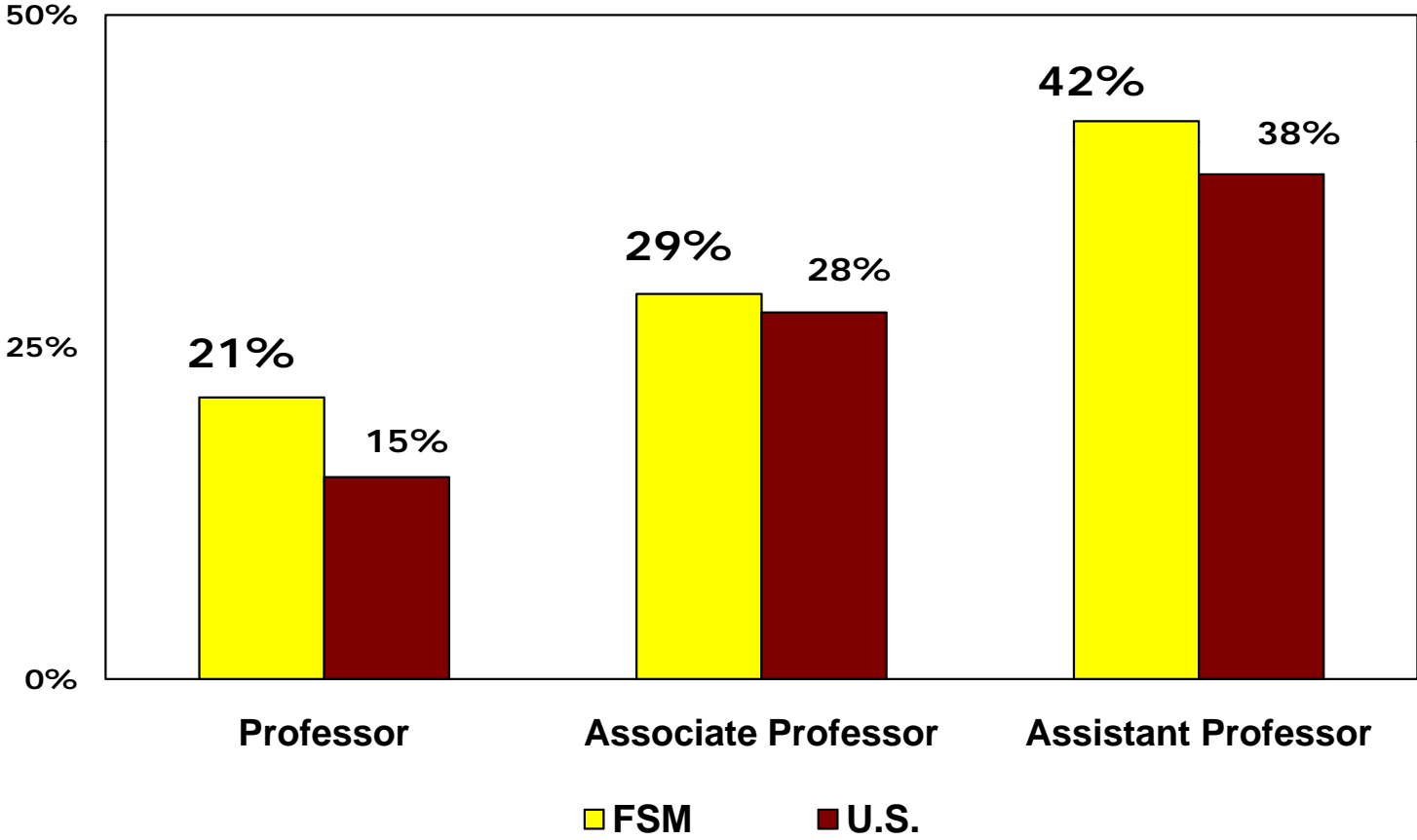
# Faculty demographics by ethnicity and gender

Full-time Medical School Faculty  
Professorial Ranks



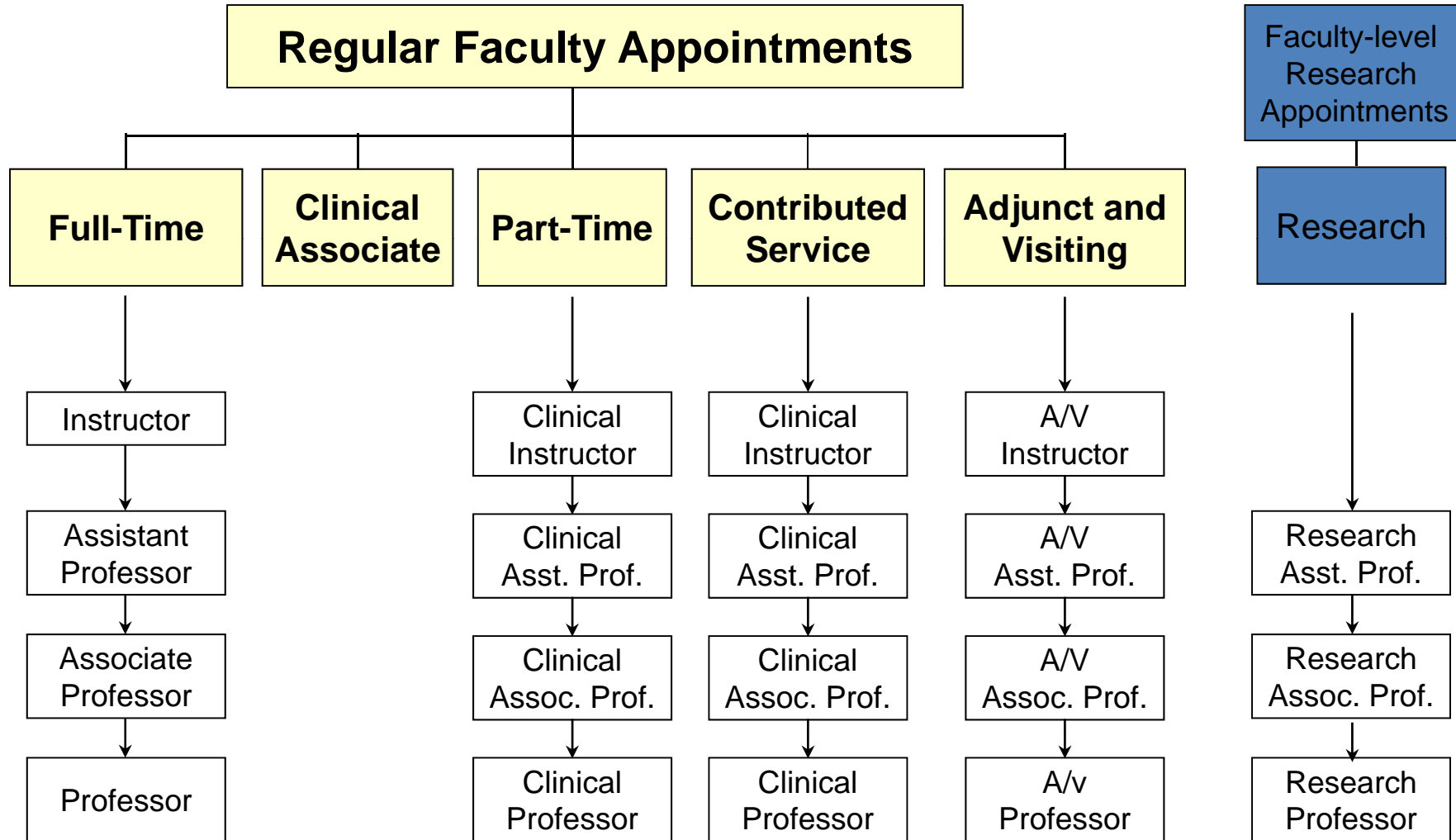
# Faculty demographics by gender and rank

Percentage of Female, Full-time, Medical School Faculty, Professorial Ranks Only

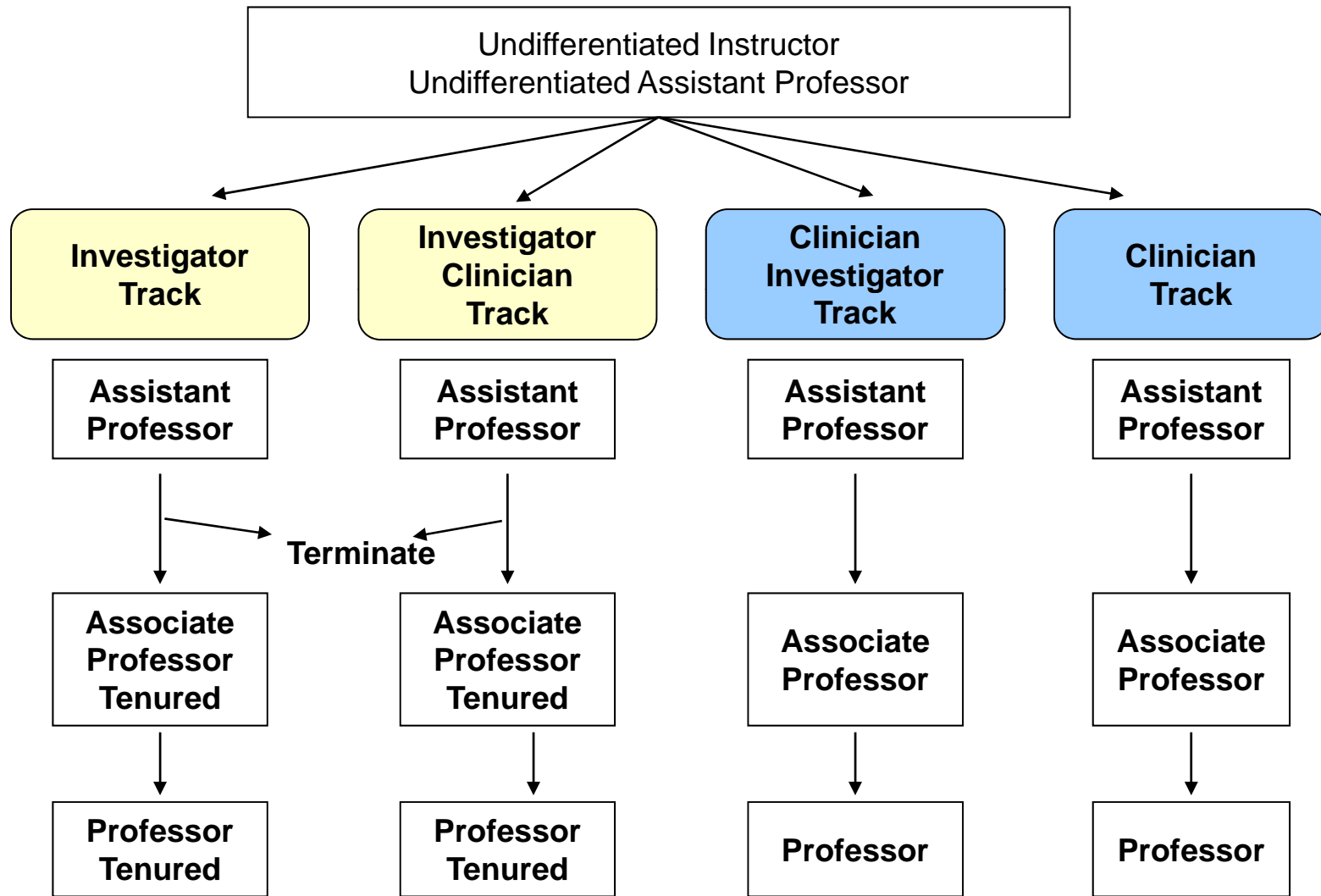


# FSM Faculty System

## Appointment Categories and Ranks



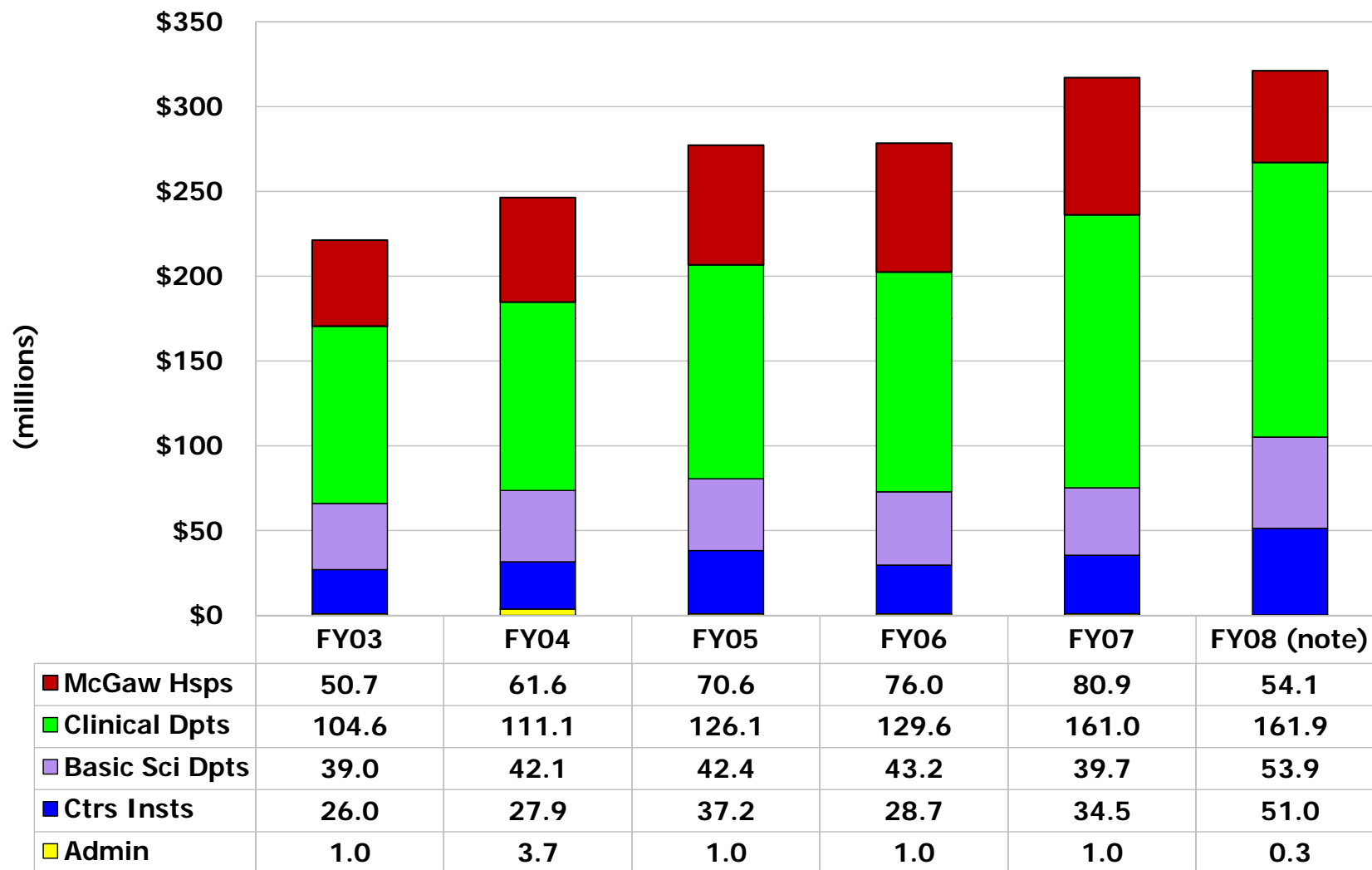
# FSM Faculty System: Career Tracks



# Research Resources

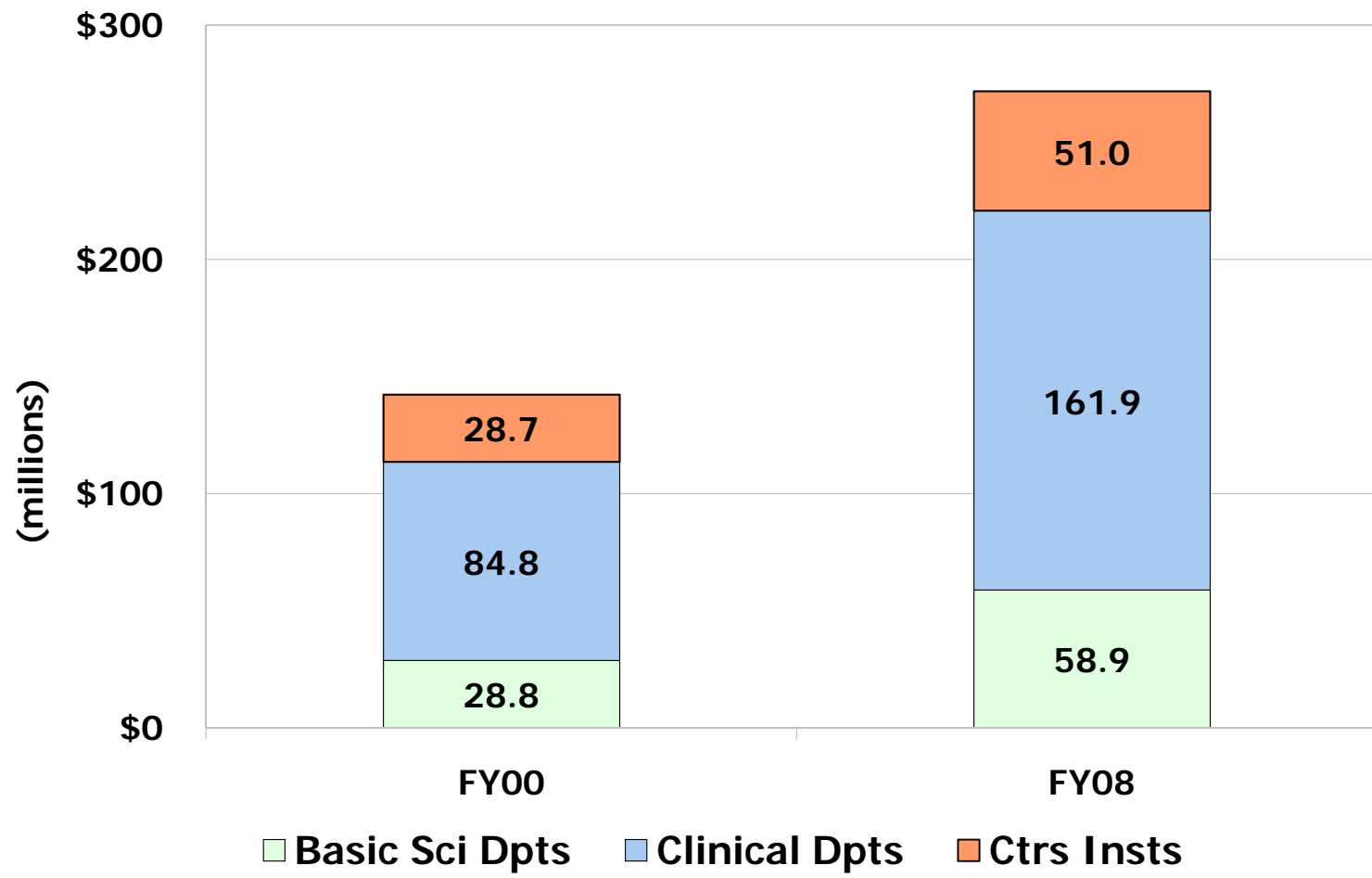
- **Sponsored Project Support**
- **Special Awards**
- **Space**

# FSM faculty annualized awards

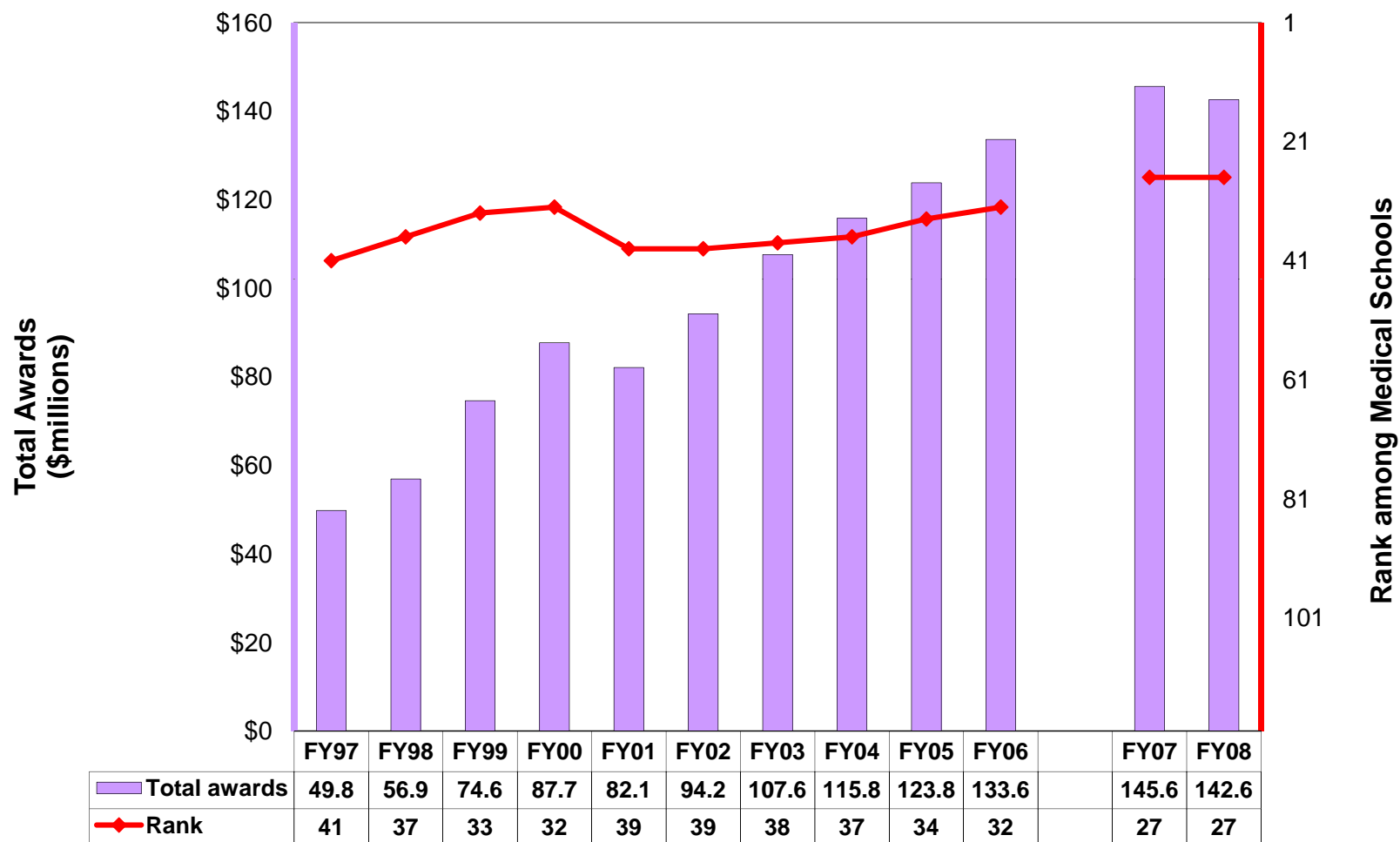


Note: ENH did not report award activity to FSM for FY2008; they reported \$30.8 million in FY2007

# Significantly more research in clinical departments and in interdisciplinary centers and institutes

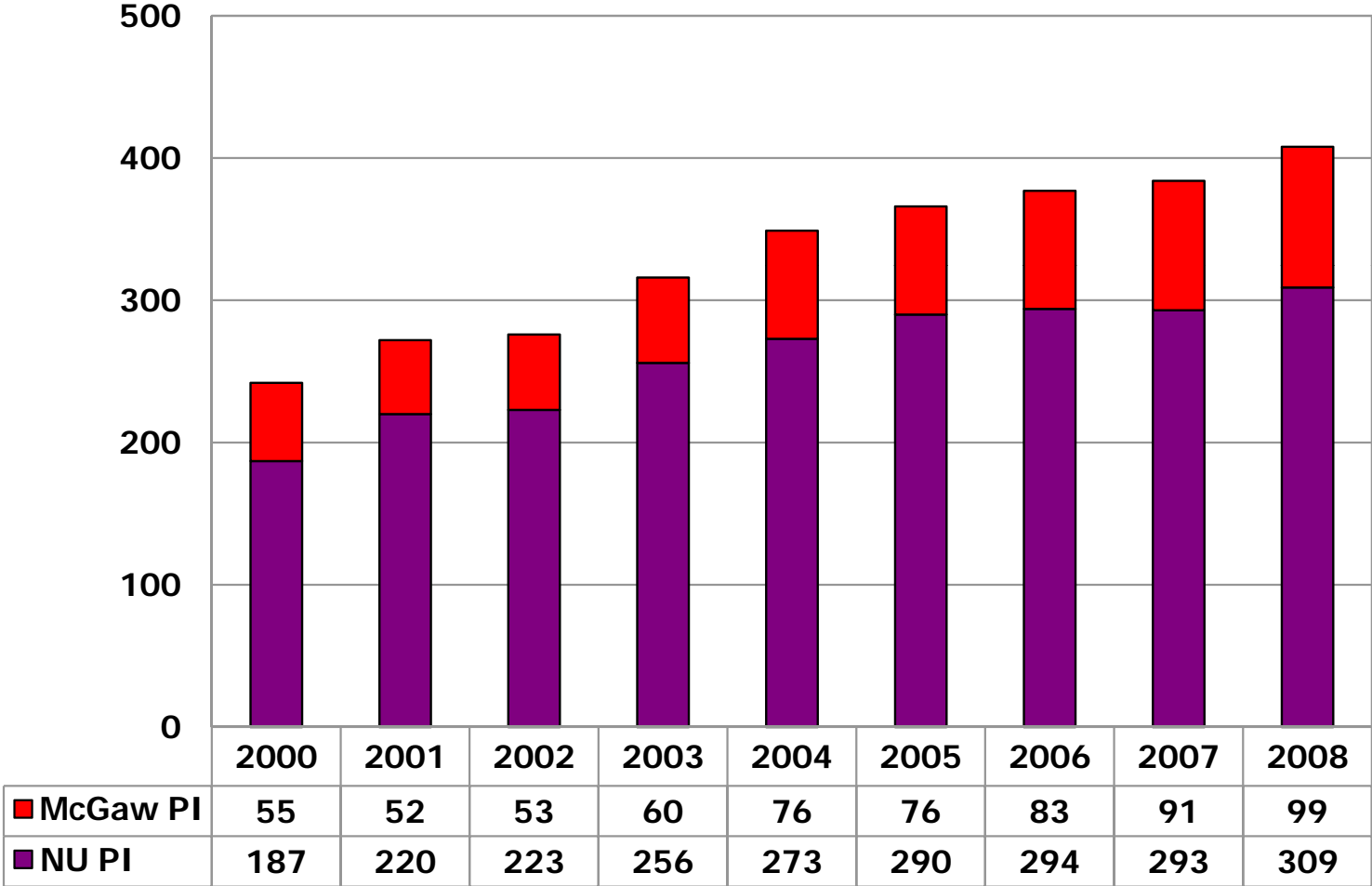


# FSM NIH Awards and Rankings (excludes McGaw hospitals)



Note: Beginning in FY2007, NIH has not published data on contracts previously included in medical school totals. Comparisons to prior year rankings are not valid.

# Number of FSM faculty Principal Investigators associated with NIH awards



# NIH funding to medical schools

## FSM awards and rank

NIH INSTITUTE	Grants to Medical Schools	Grants to FSM	FSM Rank
National Cancer Institute (NCI)	\$ 1,530,645,740	\$ 26,187,630	18
National Heart, Lung, and Blood Institute (NHLBI)	\$ 1,465,023,716	\$ 21,519,213	24
National Institute of Allergy and Infectious Diseases (NIAID)	\$ 1,305,531,899	\$ 12,046,204	37
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)	\$ 884,834,101	\$ 10,866,608	30
<b>National Institute of Neurological Disorders and Stroke (NINDS)</b>	<b>\$ 833,223,482</b>	<b>\$ 17,434,855</b>	<b>10</b>
National Institute of General Medical Sciences (NIGMS)	\$ 744,280,218	\$ 6,852,327	37
National Center for Research Resources (NCRR)	\$ 706,185,886	\$ 8,097,228	33
National Institute of Mental Health (NIMH)	\$ 611,510,123	\$ 3,800,953	41
National Institute on Aging (NIA)	\$ 461,530,118	\$ 6,215,528	27
National Institute on Drug Abuse (NIDA)	\$ 400,705,863	\$ 2,871,545	45
National Institute of Child Health & Human Development (NICHD)	\$ 392,445,180	\$ 7,543,332	16
National Eye Institute (NEI)	\$ 310,574,658	\$ 3,232,044	35
<b>National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)</b>	<b>\$ 261,267,483</b>	<b>\$ 7,395,555</b>	<b>7</b>
National Institute on Alcohol Abuse and Alcoholism (NIAAA)	\$ 173,509,789	\$ 519,063	67
National Human Genome Research Institute (NHGRI)	\$ 154,540,222	\$ 1,397,100	15
National Institute of Environmental Health Sciences (NIEHS)	\$ 150,850,809	\$ 1,571,960	27
National Institute on Deafness and Other Communication Disorders (NIDCD)	\$ 135,944,319	\$ 1,157,610	35
National Institute of Biomedical Imaging and Bioengineering (NIBIB)	\$ 89,328,025	\$ 526,033	48
National Institute of Dental and Craniofacial Research (NIDCR)	\$ 73,529,720	\$ 1,304,050	14
National Center for Complementary and Alternative Medicine (NCCAM)	\$ 54,935,501	\$ 573,800	25
Office of the Director	\$ 51,572,351	\$ -	
National Center on Minority Health and Health Disparities (NCMHD)	\$ 47,126,729	\$ 431,996	29
Fogarty International Center (FIC)	\$ 29,238,058	\$ 431,827	21
National Library of Medicine (NLM)	\$ 26,854,408	\$ 21,725	34
National Institute on Nursing Research (NINR)	\$ 19,923,572	\$ 579,082	12
<b>GRAND TOTAL ALL NIH Funding (including institutes not shown above)</b>	<b>\$10,915,111,970</b>	<b>\$ 142,577,268</b>	<b>27</b>
Note: FY2008 data excludes data on contracts previously provided by NIH, so comparisons to prior year rankings are not valid			

# Department NIH Rankings FY2008

## Ranked 1-25 (12)

Preventive Medicine (4)

Urology (5)

Physical Medicine & Rehab (7)

CM Biology (9)

Physiology (11)

Obstetrics/Gynecology (12)

Neurology (16)

Dermatology (17)

Medicine (20)

Pathology (21)

Radiology (21)

Microbiology-Immunology (24)

## Ranked 26-50 (3)

Surgery (26)

Ophthalmology (27)

MPBC (32)

## Ranked by research sponsored at affiliated specialty hospitals

Rehabilitation Institute (1)

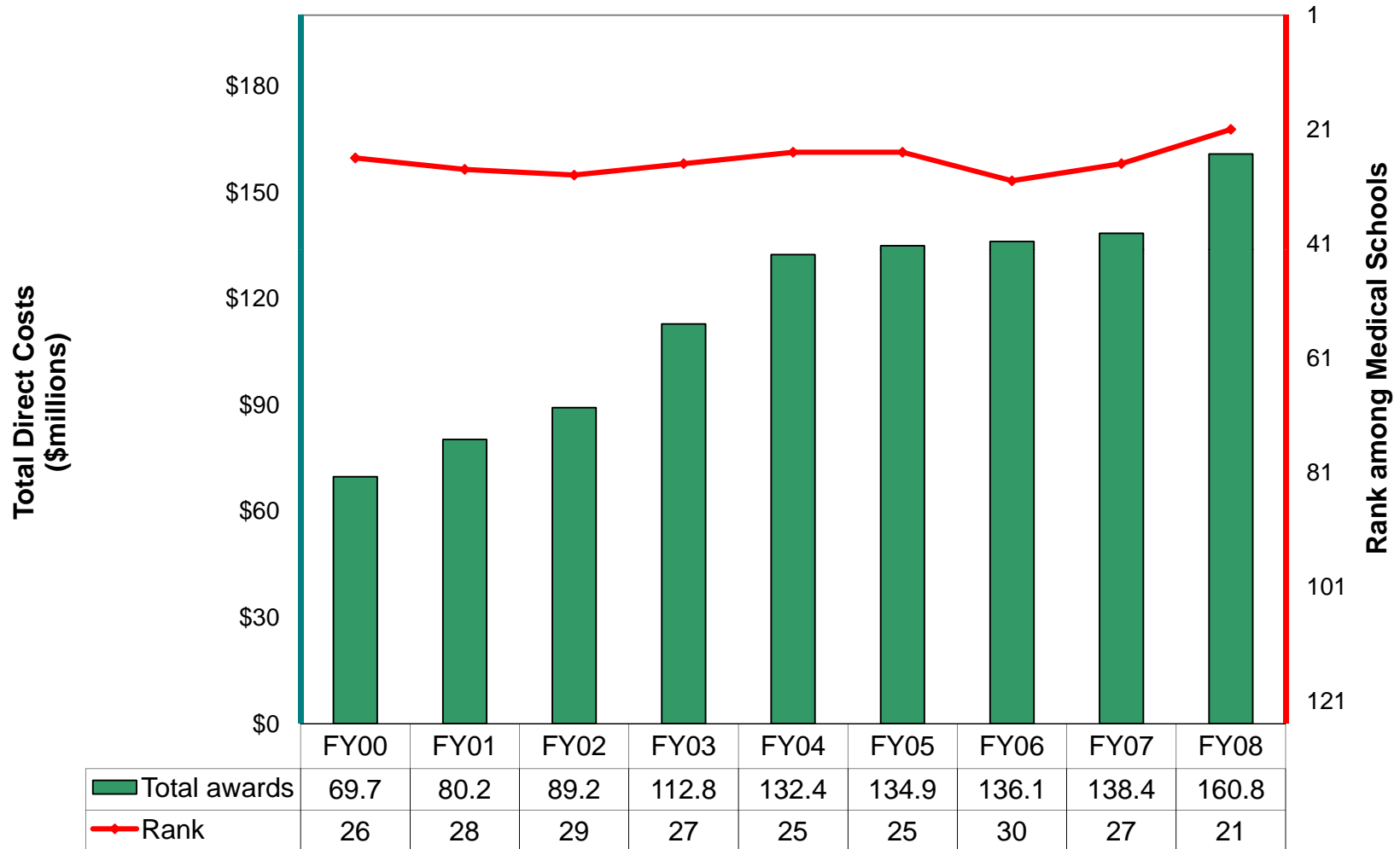
Children's Memorial Hospital (9)

Note: Beginning in FY2007, NIH has not published data on contracts previously included in medical school totals. Comparisons to prior year rankings are not valid.

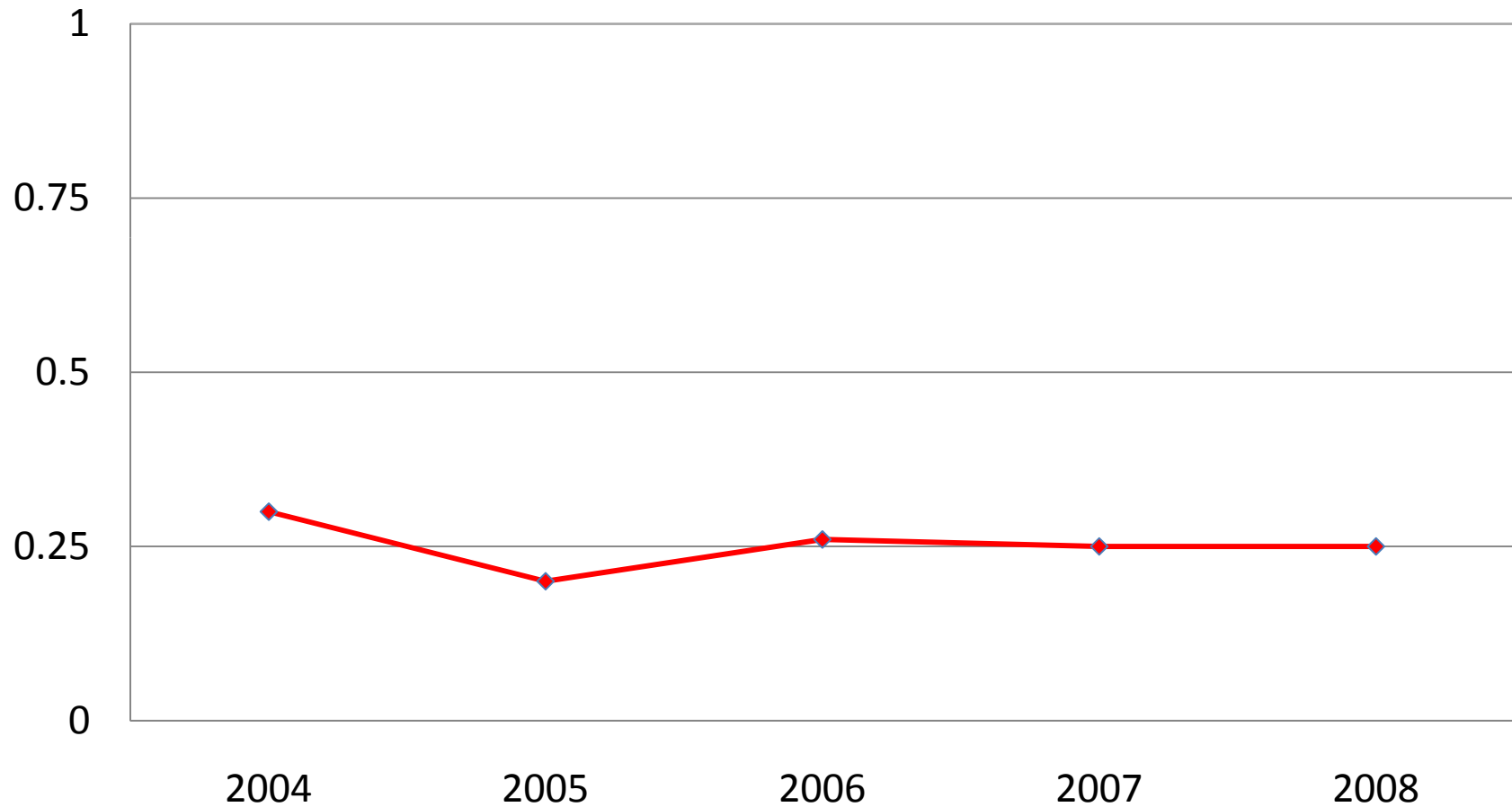
# NIH Program Development Awards

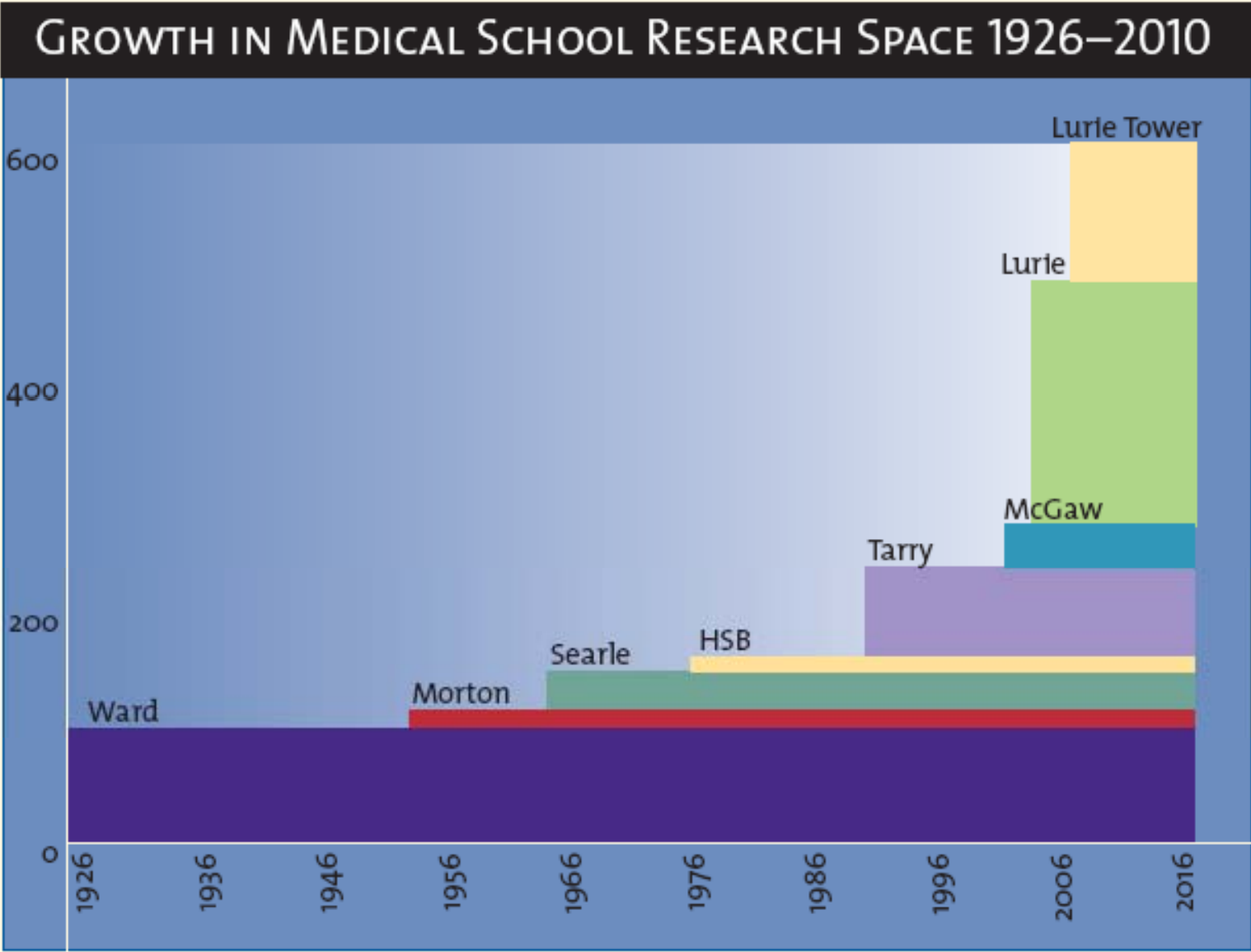
	2003	2004	2005	2006	2007	2008
<b>Program project and center grants</b>						
Projects	29	31	31	37	44	45
Annualized awards (\$M)	\$34.2	\$31.8	\$45.0	\$36.0	\$40.4	\$54.8
<b>NIH training grants</b>						
Projects	34	40	47	53	57	91
Annualized awards	\$5.8	\$6.4	\$6.5	\$5.9	\$7.0	\$12.9
<b>NIH K-series awards</b>						
Projects	24	31	39	35	40	43
FSM PI	23	27	37	34	39	43
Annualized awards	\$4.6	\$3.6	\$7.1	\$7.4	\$6.3	\$7.1
<b>NIH MERIT awards</b>						
FSM PI	11	10	10	9	8	8
Annualized awards	\$3.8	\$3.5	\$3.6	\$2.9	\$2.7	\$2.7

# Federal research direct costs and ranking Academic medical center-wide

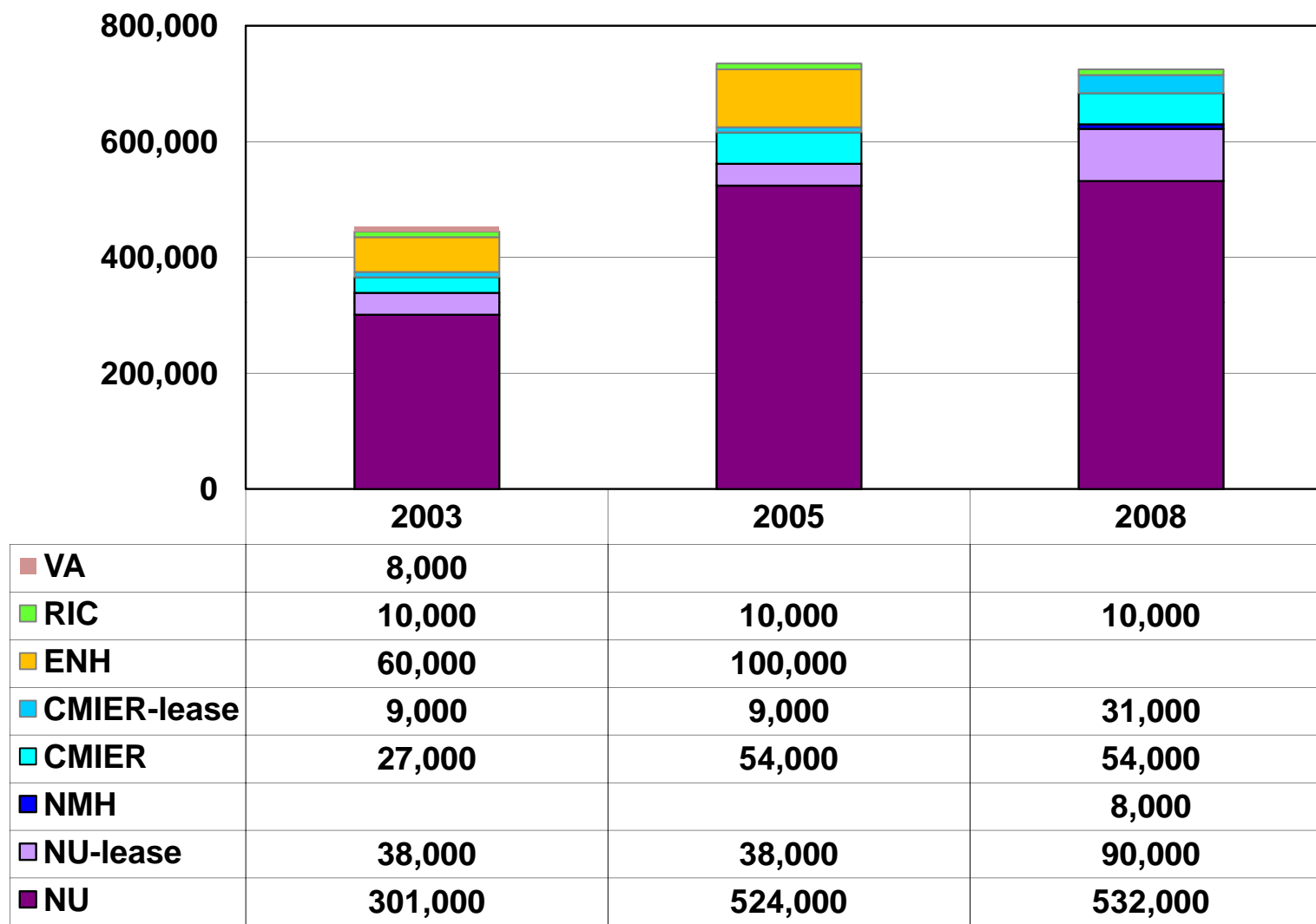


# Technology Transfer Actions Disclosures per \$1M in Research Expense





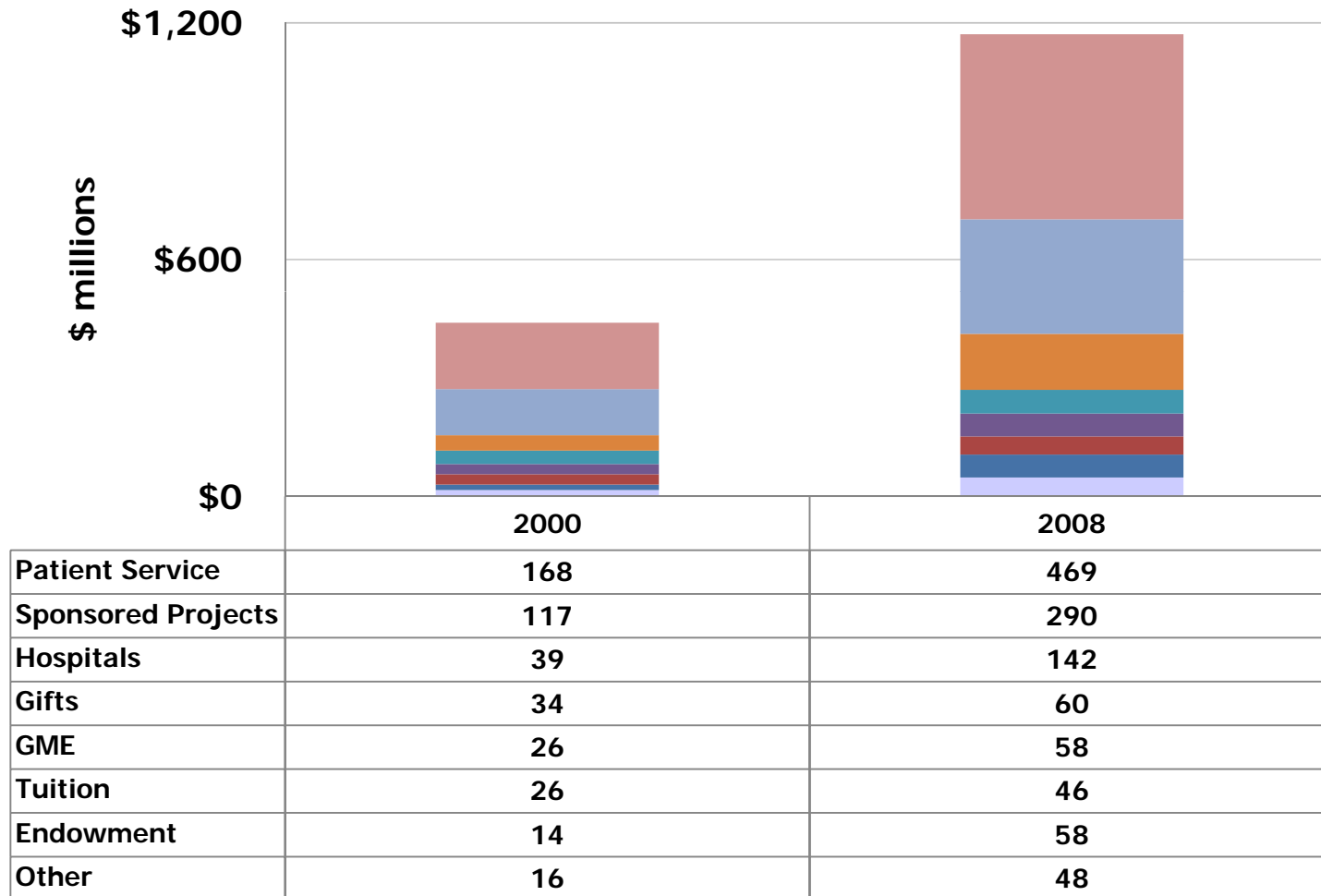
# Research space for FSM faculty



# Resources

- **Sources of Support**
- **Growth of Sources of Support**

# Total Revenues



# FSM sources of support FY2008

	NU Books	Total
Grants and Contracts	\$ 204.9	\$ 290.0
Hospitals	\$ 60.6	\$ 200.6
Gifts	\$ 60.3	\$ 60.3
Endowment	\$ 58.4	\$ 58.4
Other	\$ 48.3	\$ 48.3
Tuition and Fees	\$ 46.0	\$ 46.0
Practice Plans	\$ -	\$ 469.5
	<u>\$ 435.4</u>	<u>\$ 1,167.3</u>

Note:

Data are reported in LCME-required categories aimed at comparing data across schools with either incorporated or independent clinical enterprises. NU Books are revenues received directly by FSM.

Total column includes NU Books plus revenues retained by affiliated practice plans and hospitals.

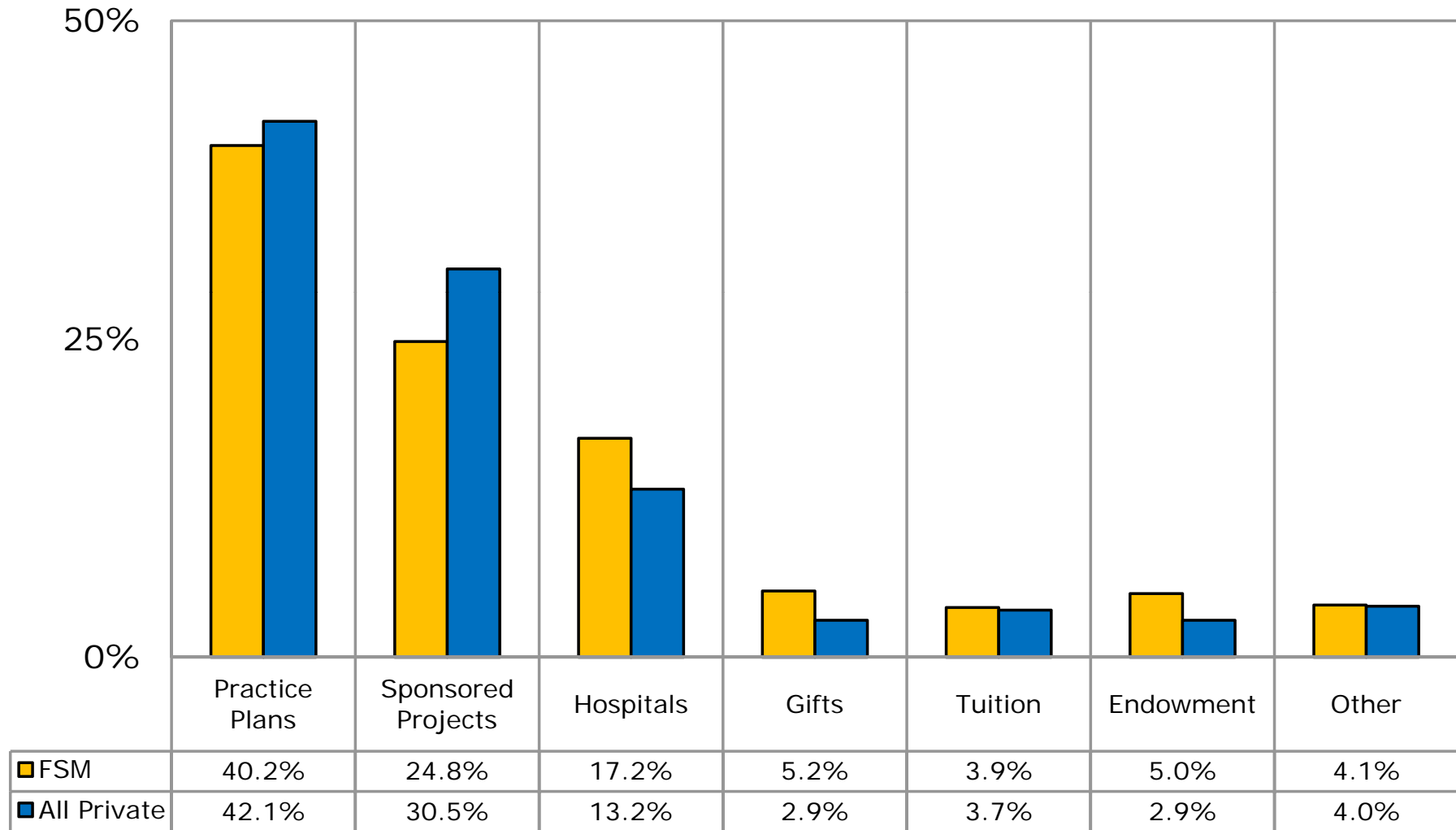
Hospitals include GME and NMFF purchased services and support.

Gifts includes NMFF dean's research/education transfer, excludes capital and endowment gifts.

Other includes NMFF department transfers

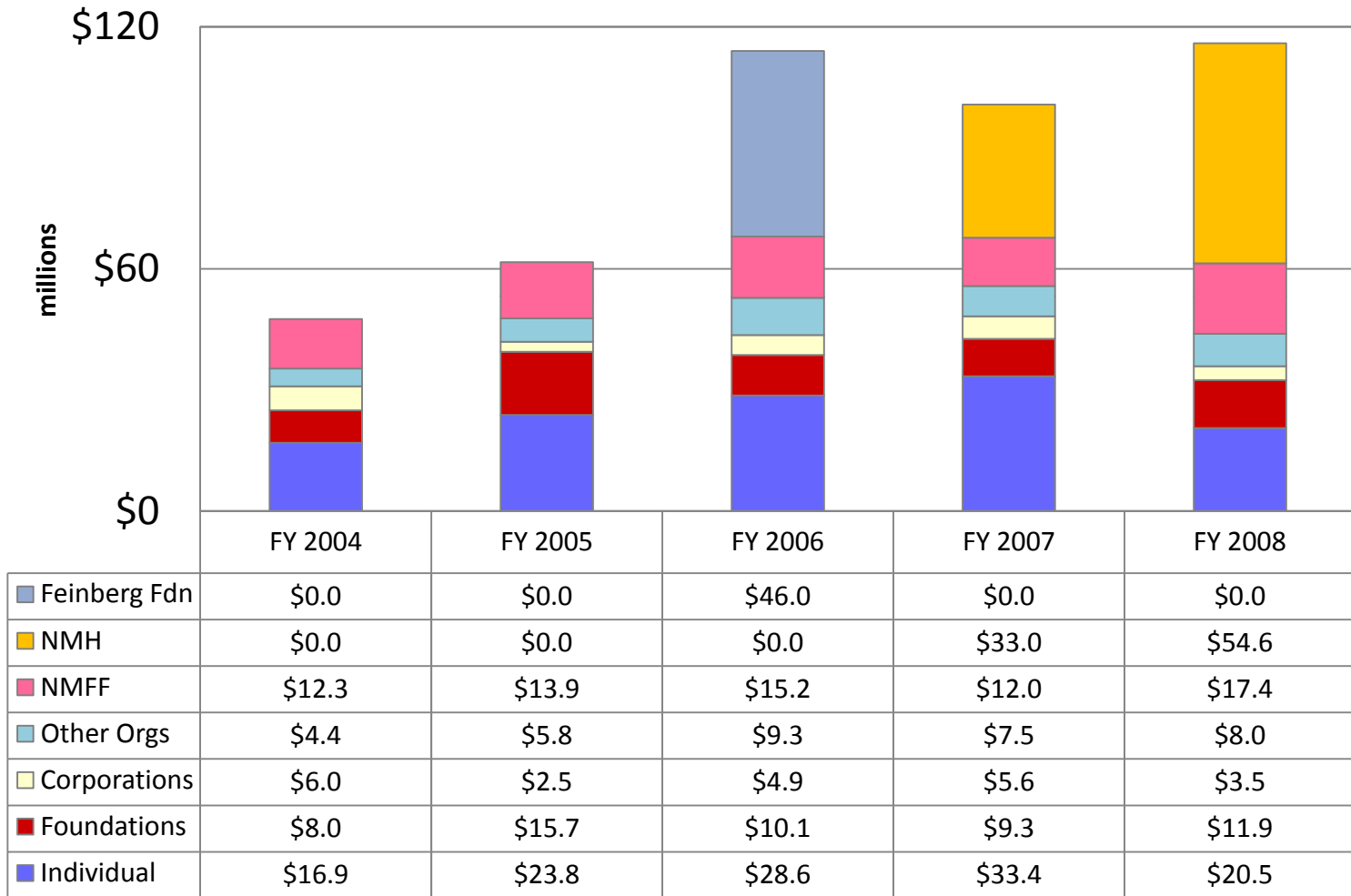
Practice Plans reported are NMFF and PFF.

# Comparison of sources of support FSM 2008 and Private Schools 2007



\* Note: FY2007 is the most recent year for comparative revenue data from the LCME-AAMC.

# Cash Gifts



# **Comparative data and rankings**

# AAMC Benchmarking Data 2008

	<u>FSM</u>	<u>Private Mean</u>	<u>Private Percentile</u>
Medical Students	700	556	75
Graduate Students	612	340	85
Housestaff	1,086	809	75
Postdoctoral Fellows	247	172	75

# AAMC Benchmarking Data 2008

<u>Full-Time Faculty</u>	<u>FSM</u>	<u>Private Mean</u>	<u>Private Percentile</u>
Total	1,938	1,281	85
Basic Science	136	164	55
Clinical	1,802	1,117	95
Percent Basic Science	7.0	16.2	5
Percent Clinical	93.0	83.8	95

# AAMC Benchmarking Data 2008

<u>Revenue (\$M)</u>	<u>FSM</u>	<u>Private Mean</u>	<u>Private Percentile</u>
Total	1,167	\$ 819.9	75
Practice Plan	470	\$ 378.6	85
Hospital Support	201	\$ 113.7	85
Federal Grants / Contracts	214	\$ 166.7	65
Other Grants / Contracts	\$ 75.6	\$ 79.4	65
State, Local, University Support	\$ (5.8)	\$ 5.5	15
Gift and Endowment	\$ 119	\$ 54	85
Tuition and Fees	\$ 46	\$ 31	85
Miscellaneous	\$ 18	\$ 30	75

# AAMC Benchmarking Data 2008

<u>Revenue Source %</u>	<u>FSM</u>	<u>Private Mean</u>	<u>Private Percentile</u>
Practice Plan	0	31.0%	65
Hospital Support	0	18.6%	55
Federal Grants / Contracts	0	19.3%	45
Other Grants / Contracts	0	9.6%	35
State, Local, University Support	-0.5%	2.0%	15
Gift and Endowment	10.2%	5.5%	85
Tuition and Fees	3.9%	9.1%	40
Miscellaneous	4.1%	4.9%	55

# Hospital and Clinical Service Rankings U.S. News and World Report 2009

## Rehabilitation Institute of Chicago

1<sup>st</sup> overall

## Children's Memorial Hospital

Urology	7	Neonatal Care	18
Heart/ Heart Surgery	12	Respiratory	18
Cancer	14	Orthopedics	19
Digestive Disorders	16	Kidney	24
Neurology/ Neurosurgery	16		

## Northwestern Memorial Hospital

Neurology/ Neurosurgery	11	Respiratory	32
Rheumatology	12	Cancer	31
Gynecology	18	Kidney	39
Geriatrics	19		
Heart/ Heart Surgery	22	Ear, Nose & Throat	nr
Orthopedics	22	Eyes	nr
Urology	22	Digestive Disorders	nr
Diabetes and Endocrine	28	Psychiatry	nr

# U.S. News & World Report Ranking 2009 Research Medical Schools

1. Harvard
2. Johns Hopkins
3. Penn
4. Wash U
5. UCSF
6. Duke
- Stanford
- Washington
- Yale
10. Columbia
11. UCLA
- Michigan
13. U of Chicago
- Pittsburgh
15. UCSD
- Vanderbilt
17. Baylor
18. Cornell
- 19. Northwestern**
20. North Carolina
- UT-Southwestern

# U.S. News & World Report 2009 Ranking Northwestern University Feinberg School of Medicine

	<u>2008 Rank</u>	<u>2009 Rank</u>
Reputation (deans, senior faculty)	22	21
Reputation (GME program directors)	19	17
Research activity	34	29
NIH dollars	22	21
NIH dollars per full-time faculty	40	38
Student selectivity*	17	9
Faculty resources	18	19
<b>OVERALL</b>	<b>20</b>	<b>19</b>

Data on top 50 schools are published, but data from all 126 reporting schools are used in scoring. The rankings, above, reflect only FSM rank among the top 50 schools, not among all schools.

\* FSM moved significantly in rank of GPA (27<sup>th</sup> to 10<sup>th</sup>; 3.71 to 3.79) and MCAT (18<sup>th</sup> to 8<sup>th</sup>); 11.4 to 11.7)

# U.S. News & World Report Ranking History

	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
<b>Research activity</b>	23	21	27	23	24	24	27	34	34	29
<b>Student selectivity</b>	19	16	21	12	21	13	18	14	17	9
<b>Faculty resources</b>	33	27	28	27	21	20	20	22	18	19
<b>Reputation</b> (sr faculty)	24	23	22	27	23	22	22	25	22	21
<b>Reputation</b> (GME dirs)	13	12	18	13	17	16	17	20	19	17
<b>OVERALL</b>	<b>22</b>	<b>20</b>	<b>22</b>	<b>21</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>21</b>	<b>20</b>	<b>19</b>