Feinberg School of Medicine Overview

Diane B. Wayne, MD
Vice-Dean, Education
Dr. John Sherman Appleman Professor of Medicine and Medical Education
Feinberg at a Glance

**Financial**

- ~$673 million
  - FY17 expense budget

- $1.8 billion
  - 2016 proposals submitted

- ~$443 million
  - 2016 awards

**Rankings**

- 6 Lurie Children’s
- 17 Feinberg US News
- 1 SRAL
- 8 NMH
- 16 NIH Funding
- 16

**Space**

- 512,000 Sq Ft Wet Lab
- 181,000 Sq Ft Dry Lab

**People**

- 375 Investigator Faculty
- 1,480 Clinician-Educators
- 1,400 Health System Clinicians
- 45 Team Scientists
- 315 Research Faculty
- 3,300 Students & Trainees
- 1,900 Staff
- 8,815 TOTAL

**2016 awards**

- $1.8 billion
- 2016 proposals submitted

**40%**
Strategies for Advancing Our Academic Mission

**Mission:** Impact the practice of medicine through discovery and education to improve human health

- Advance the Research Enterprise
- Enhance the Educational Enterprise
- Strengthen the Clinical Enterprise
- Advance Diversity & Inclusion
- Focus on Community Engagement

**Result:** Enhanced reputation as a learning organization
Tomorrow’s Discoveries: Funding and Awards
Fiscal Year 2016 Research Awards Totaled $443.1 Million

Awards by Clinical Research, Basic Science, Institutes and Centers

- Clinical Depts: $250.5M
- Basic Science Depts: $108.2M
- Institutes, Centers: $84.4M

Awards by Faculty Type

- Investigator: Scientist 39%
- Investigator: Physician Scientist 27%
- Clinician-Educator 27%
- Other 7%
Research Awards to Feinberg in Past Decade

*As reported to U.S. News & World Report; Feinberg data excludes ARRA funds.

**CAGR calculated from FY12 – FY16
Advancing the Research Enterprise

FY17 – FY22

Goal: $402M median NIH funding of the top decile of medical schools

How will we reach our goal?

Recruit 80 investigator track faculty

Add 152,000 Sq Ft in the 600,000 Sq Ft Simpson Querrey Biomedical Research Center

Add 42,300 Sq Ft on campus for dry lab research

How will we pay for it?

• Increased grant funding from new recruits
• Funds flow defined by clinical integration
• Fundraising from We Will campaign
• Northwestern Medicine Catalyst Fund grants
Simpson Querrey Biomedical Research Center

- $75 million naming gift from Louis A. Simpson and Kimberly K. Querrey
- Nearly $25 million in gifts from the Potocsnak Family, University Trustees, Alumni and other friends
- 600,000 square feet
- Expected occupancy in December 2018
- $150 million additional research dollars annually
- Collaborative space with Stanley Manne Children's Research Institute and other Northwestern University researchers
- Future phases with build-out capacity of 1.2 million square feet
Enrollment

Medical Education

- Undergraduate Medical Education: 638
- Graduate Medical Education (McGaw): 1,157
- Continuing Medical Education

Graduate Science Education

- PhD Students: 417
- Postdoctoral Fellows: 462

Professional Education

- Physical Therapy: 274
- Physicians Assistant: 59
- Masters Programs: 314
Medical Student Education

• Feinberg MD student class of 2020
  – 165 students
  – 24 HPME
  – 11 NUPS
  – Median GPA 3.87
  – Median MCAT 36/518
  – 17% from groups traditionally underrepresented in medicine
Physician Assistant Program

- 30 students/year
- Highly competitive 1700 applications; GPA 3.7
- Approximately 15% of graduates work at NM
- Goals: integration and enhanced interprofessional education

Michael J MacLean, MS/PA-C
Director,
Physician Assistant Program
### The Changing Medical Education Landscape

- **Feinberg implemented a new curriculum in 2012**
  - Active learning is key component
- **Deemphasize lectures (passive learning)**
  - Fewer number
  - Audio/video capture for convenient viewing
- **Flipped classroom (active learning)**
  - Example: Review research paper and perform statistical analyses prior to interactive session
- **Team-based learning (TBL) and problem-based learning (PBL)**
  - Example: Small groups review clinical case presentations and determine patient management including procedures, consultations, and tests
- **Technology-enabled classrooms**, enabling active participation from students as well as broadcasts throughout campus (e.g., operating rooms, prosections from Pathology Lab)

---

<table>
<thead>
<tr>
<th>Phase 1a and 1b</th>
<th>Phase 2</th>
<th>Phase 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science in Medicine</td>
<td>Clinical Medicine</td>
<td>Professional Development</td>
</tr>
<tr>
<td>M1</td>
<td>M2</td>
<td>M3</td>
</tr>
<tr>
<td>Health &amp; Society</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---
GME: McGaw Medical Center

- Consortium of hospitals that sponsor and employ residents and fellows
  - Northwestern Memorial HealthCare
  - Jesse Brown VA
  - Ann & Robert H. Lurie Children’s Hospital of Chicago
  - Shirley Ryan Ability Lab (former RIC)
- 814 residents; 343 fellows
- 22nd largest GME in U.S.
- 20% of incoming interns are from traditionally underrepresented groups

Josh Goldstein, MD
Associate Dean for Graduate Medical Education
GME Updates

- Resident wellness program
  - Respond to national surveys showing 50% rate of burnout in physicians in training and concerns about depression and suicide
- Develop 1- to 2-year certificate programs

Medical Education
Business of Medicine
Global Health
Ethics
Safety and Quality Improvement

Ashley Bassett, MD
Housestaff Wellness Program
Continuing Medical Education

Improving Skills and Outcomes of Practicing Physicians

• Online platform system-wide
• New activities:
  • Simulation (active learning)
  • Quality improvement CME
  • Faculty development CME
  • Online learning, modules/seminars
Northwestern Simulation and Mastery Learning

- Training
- Dissemination of curricula across the US
- Improved patient outcomes and lower costs at Northwestern Memorial Hospital in Medicine, Cardiology, Surgery, Obstetrics

Barsuk et al *Neurology* 2012
Questions?