

# **The Role of Research in Osteopathic Medical Education**

**American Association of Colleges of  
Osteopathic Medicine**

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# What is Medical Research?



# Basic Research

Investigations into the structure and function of living systems at the molecular, cellular, and organismal levels – often without clear immediate application



# Clinical Research

Continuum of studies involving interaction with patients, diagnostic clinical materials or data, or populations, in any of these categories:

- disease mechanisms;
- translational research;
- clinical knowledge, detection, diagnosis, and natural history of disease;
- therapeutic interventions including clinical trials;
- prevention and health promotion;
- behavioral research;
- health services research, including outcomes;
- epidemiology;
- community-based and managed care-based re



# Health Services Research

- Cost and effectiveness of medical interventions
- Financing, organizations and delivery of health care services

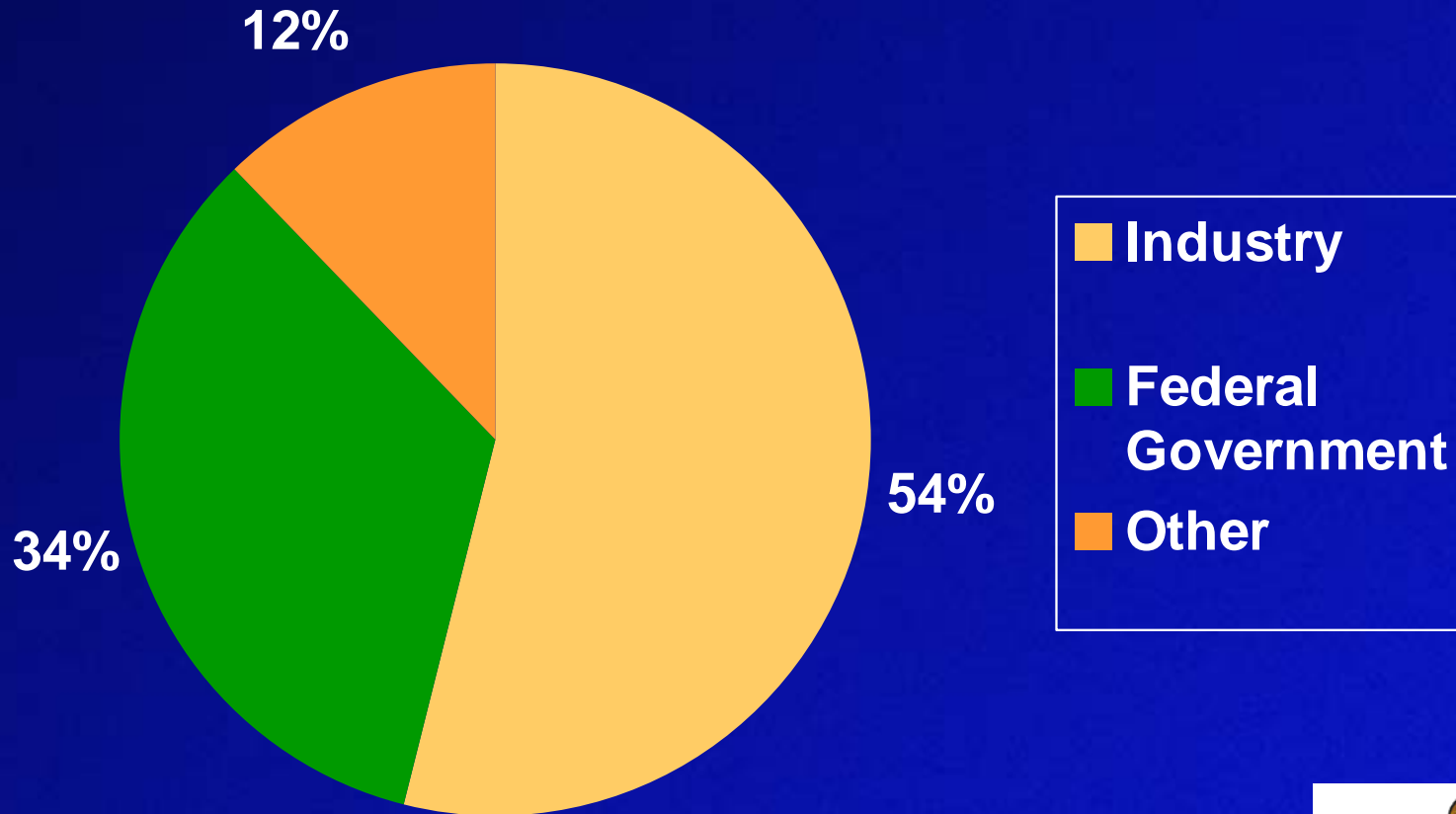


# Why Should Medical Schools Do Research?

- Benefits for Education
- Benefits for Research



# U.S. Investment in Health Research – FY 2002



Source: Research!America

Total = \$ 92.4 million



# Federal Funding for Health Research – FY 2003 [in millions]

National Institutes of Health	26,398
VA Medical Care and Prosthetic Research	817
Centers for Disease Control	564
DOD Medical Research	458
Agency for Healthcare Research and Quality	303
NASA Biological Sciences	269
National Sciences Foundation	229
DOE Life Sciences	182
Food and Drug Administration	146

Source: AAAS



# NIH Funding to Medical Schools – FY 2003

	# of Schools	Total Grants	Total Funding (in millions)	Funding per School (in thousands)
Allopathic	121	26,838	\$ 10, 825.1	\$ 89,464
Osteopathic	12	47	\$ 11.4	\$ 946

Source: NIH



# NIH Funding to Health Professions Schools – FY 2003

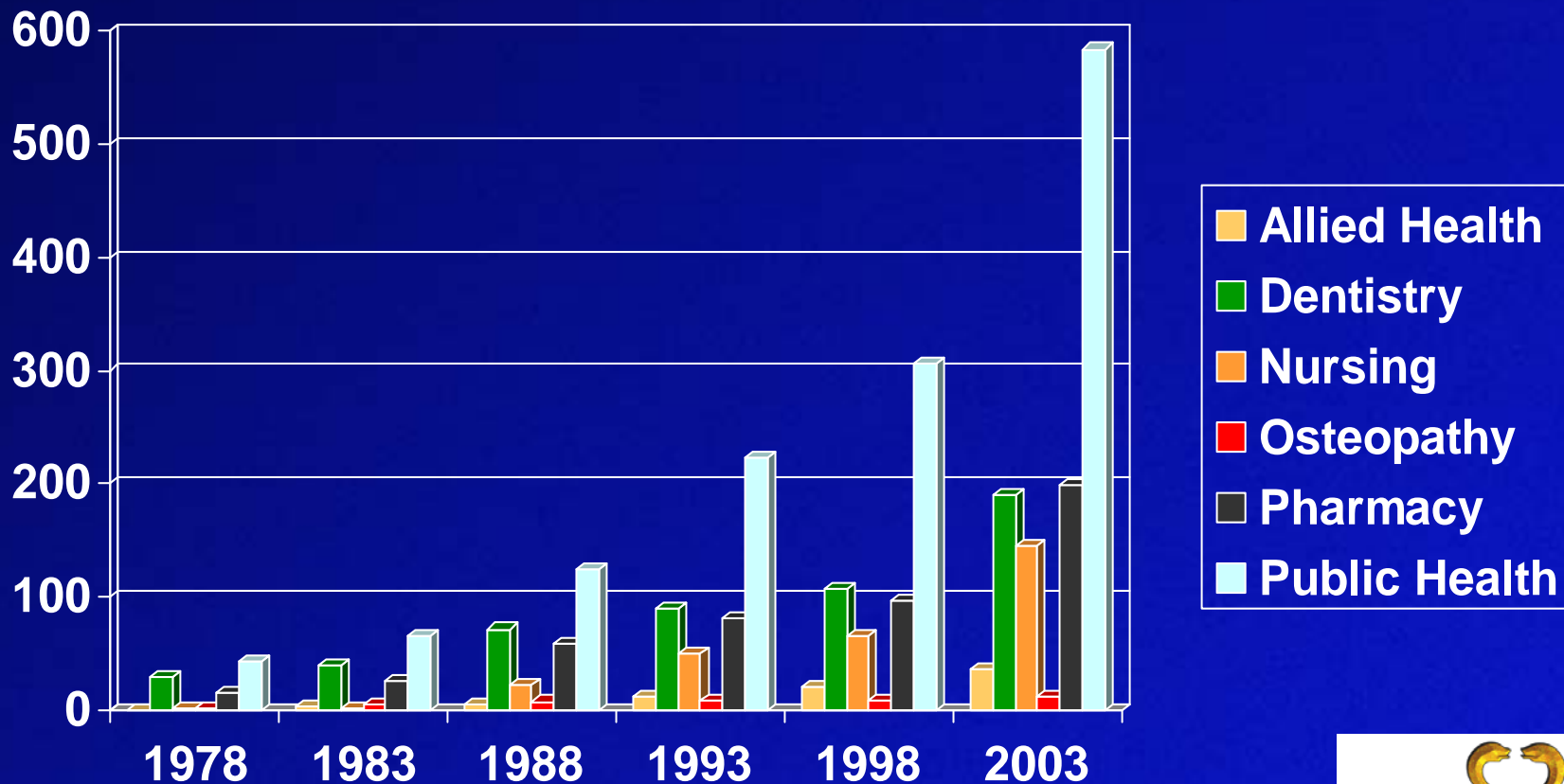
	# of Schools	Total Grants	Total Funding (in millions)	Funding per School (in thousands)
Allied Health	50	127	\$ 36.7	\$ 734
Dentistry	48	578	\$ 190.3	\$ 3,965
Nursing	98	521	\$ 144.7	\$ 1,477
<b>Osteopathy</b>	<b>12</b>	<b>47</b>	<b>\$ 11.4</b>	<b>\$ 946</b>
Pharmacy	64	574	\$ 199.1	\$ 3,110
Public Health	47	1,137	\$ 583.6	\$ 12,417
Veterinary	30	598	\$ 192.0	\$ 6,401

Source: NIH



# NIH Funding to Health Professions Schools

(in millions)



Source: NIH



# Future Directions for Medical Research



## NIH Roadmap

“...an integrated vision to deepen our understanding of biology, stimulate interdisciplinary research teams, and reshape clinical research to accelerate medical discovery and improve people's health.”



# NIH Roadmap

- Ways to accelerate basic research discoveries and speed translation of those discoveries into clinical practice
- Explicitly address roadblocks that slow the pace of medical research in improving the health of the American people



# NIH Roadmap Major Themes

- New Pathways for Discovery
- Research Teams of the Future
- Re-engineering Clinical Research



# Future Challenges



# Budget Challenges



# Health Research and Training (in billions of dollars)

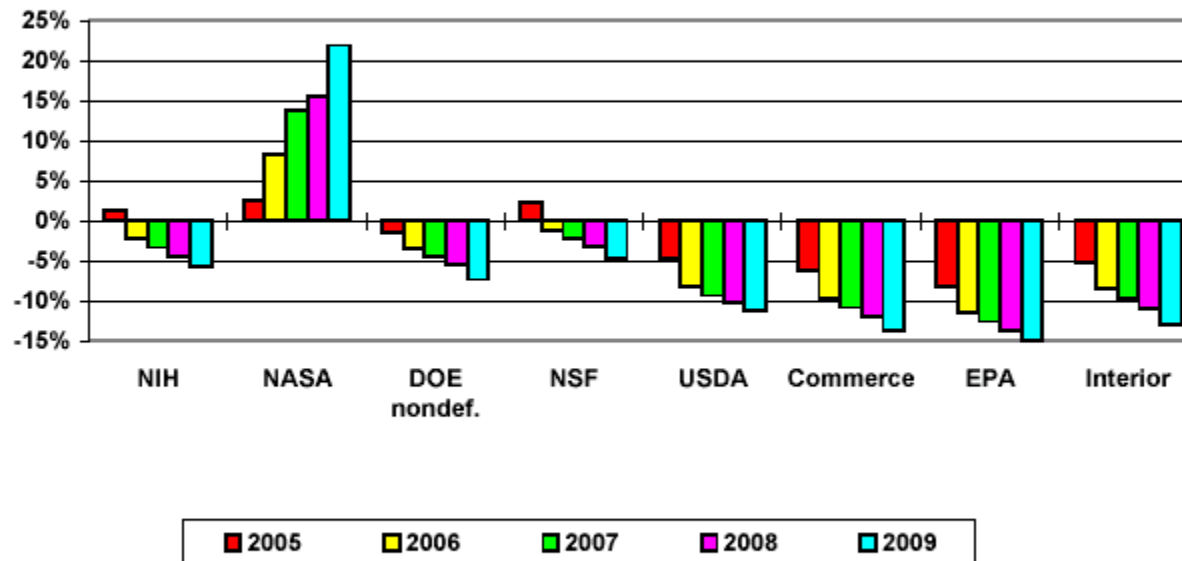
	Current Services	President's Budget	+/-	+/-
2004	28.9	28.9	0	0
2005	29.3	29.5	0.2	0.6%
2006	29.8	28.9	-0.9	-3.1%
2007	30.3	29.0	-1.3	-4.4%
2008	31.0	29.2	-1.7	-5.6%
2009	31.6	29.4	-2.2	-7.1%

Source: OMB



## Projected Nondefense R&D in the President's Budget, FY 2004-2009

% change from FY 2004 funding level in constant dollars



Source: AAAS analysis *Projected Effects of President's FY 2005 Budget on Nondefense R&D*  
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# How Congress Views Research



**"You have heard about people in the Federal Government who want more and more and more for their agencies. We have nicknames for them.... I hate to say it. The NIH is one of the best agencies in the world, but they have turned into pigs, pigs. They can't keep their ``oinks" closed. They send a Senator down here to argue as if they are broke. ."**

Senator Pete Dominici (R-NM), March 11, 2004,  
*Congressional Record*, page S6270.



**"The argument that science funding is a long-term national investment does nothing to set scientists apart [from other special interests]. All that sets you apart is that scientists are the only group that thinks it's making a unique argument."**

House Science Committee Chair Sherwood Boehlert  
(R-NY), at a 15 March workshop at Brookhaven  
National Laboratory, from *Science*, April 2, 2004.



# NIH Oversight

- Conflicts of Interest
- Results from Doubling
- Funding for Specific Diseases
- Ideology versus Science
- Stem Cell Research
- NIH Organization/Road Map Issues

