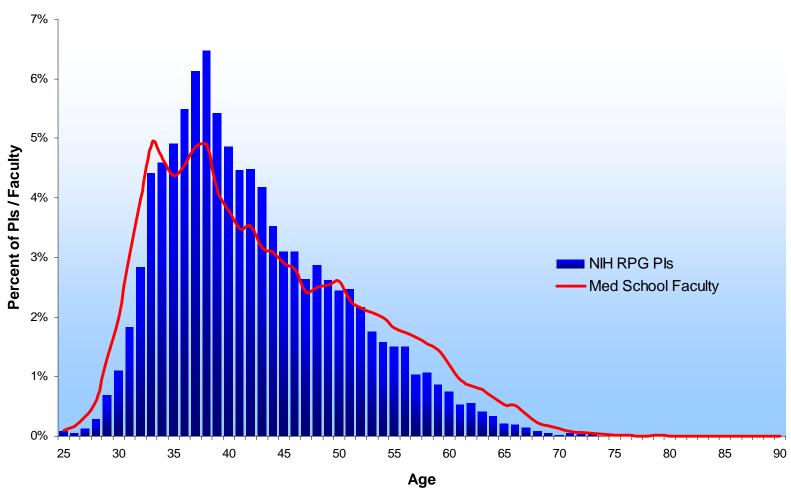
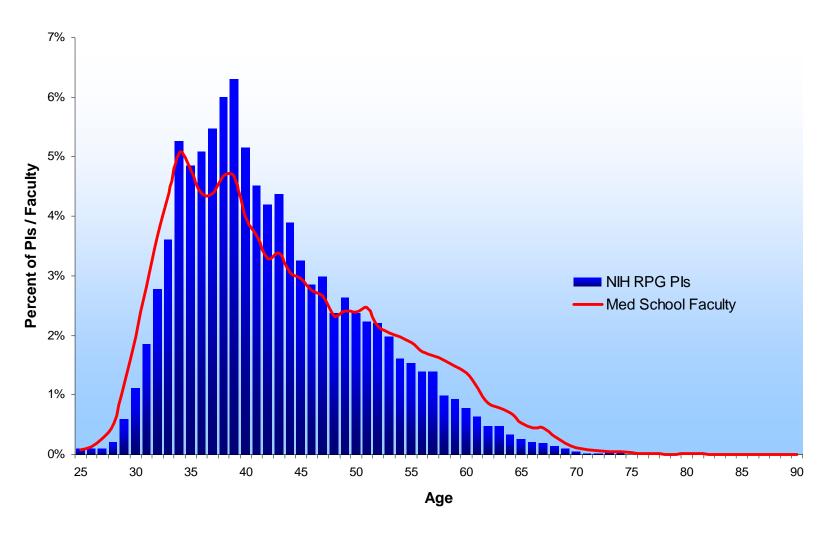
Some Observations on Demographics of NIH-funded Scientists

Policy Implications for New Investigators

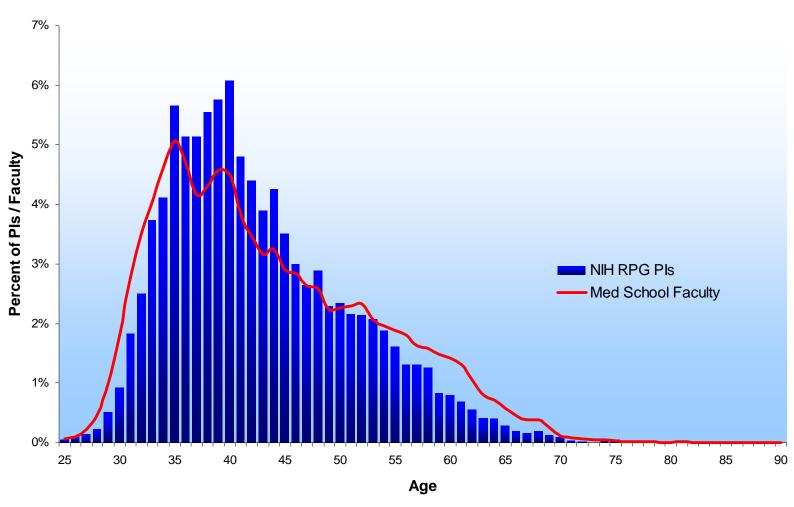
Comparison of the Age of NIH PIs and 1980 Medical School Faculty



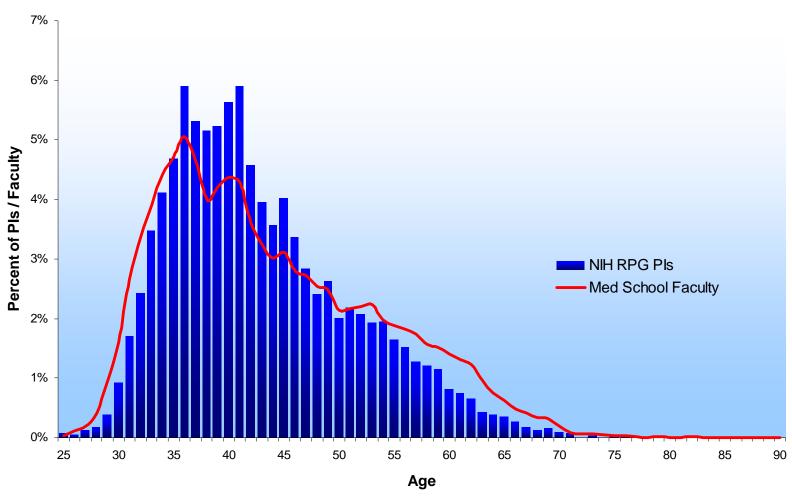
Comparison of the Age of NIH PIs and 1981 Medical School Faculty



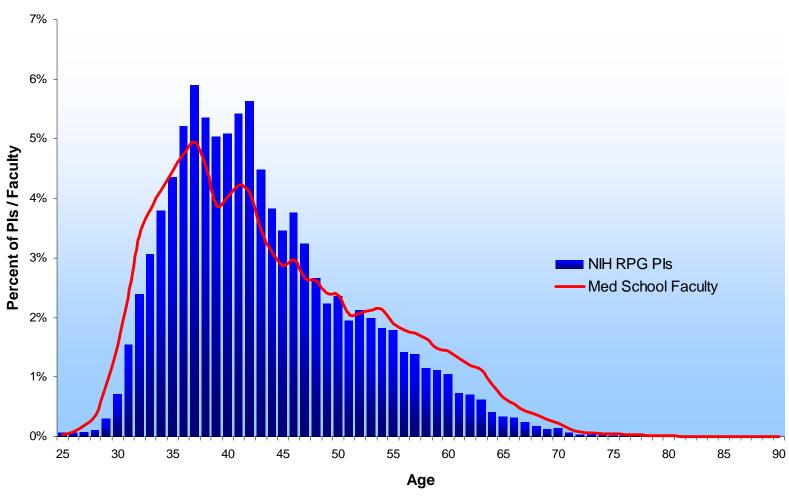
Comparison of the Age of NIH PIs and 1982 Medical School Faculty



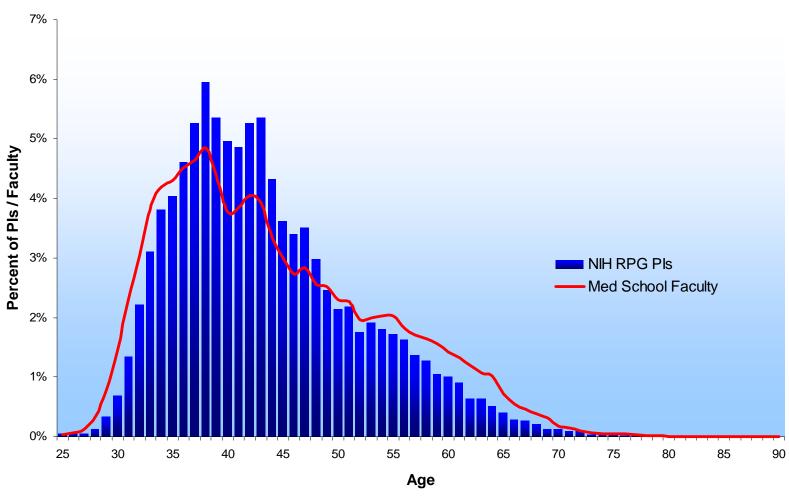
Comparison of the Age of NIH PIs and 1983 Medical School Faculty



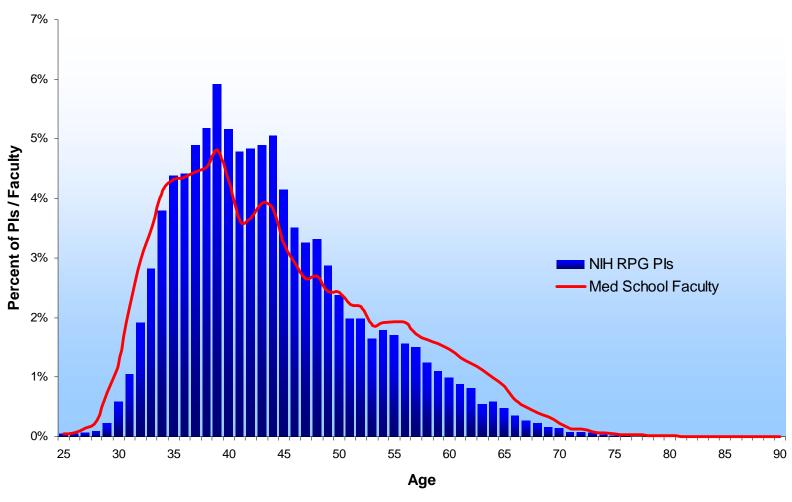
Comparison of the Age of NIH PIs and 1984 Medical School Faculty



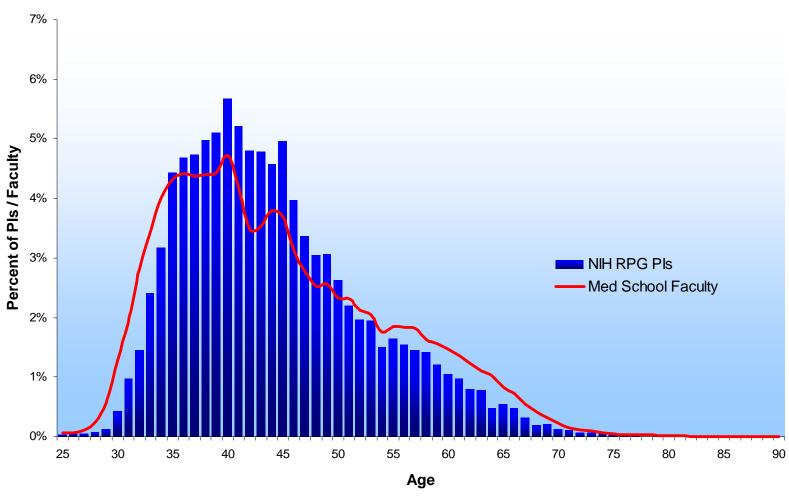
Comparison of the Age of NIH PIs and 1985 Medical School Faculty



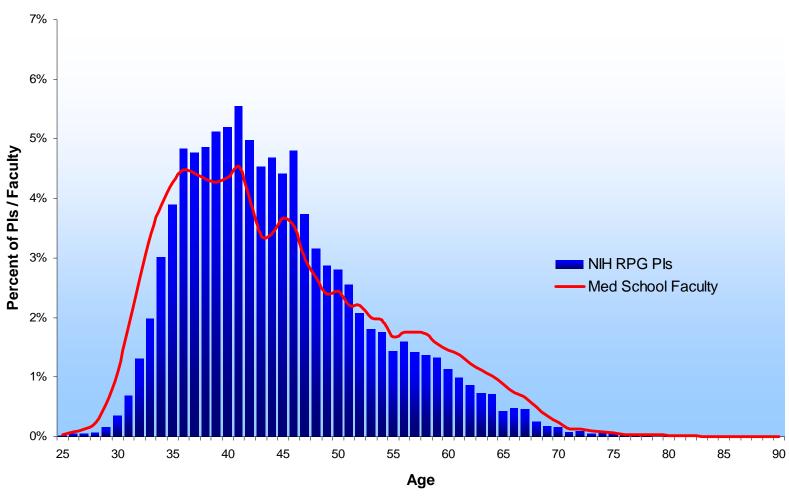
Comparison of the Age of NIH PIs and 1986 Medical School Faculty



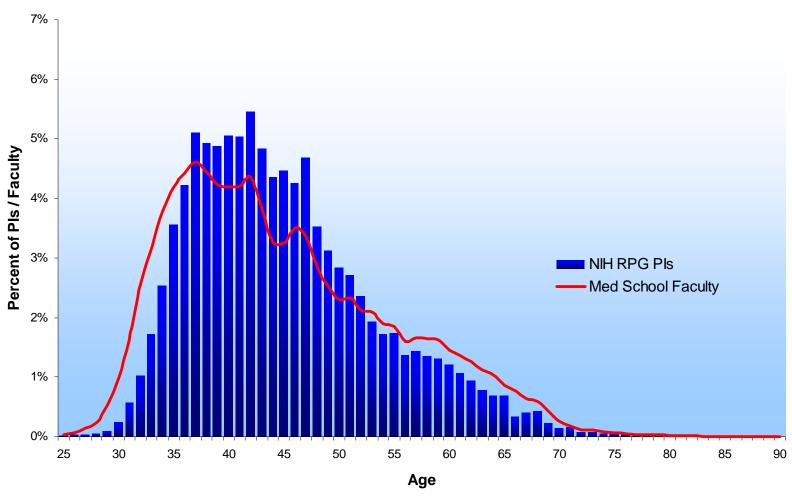
Comparison of the Age of NIH PIs and 1987 Medical School Faculty



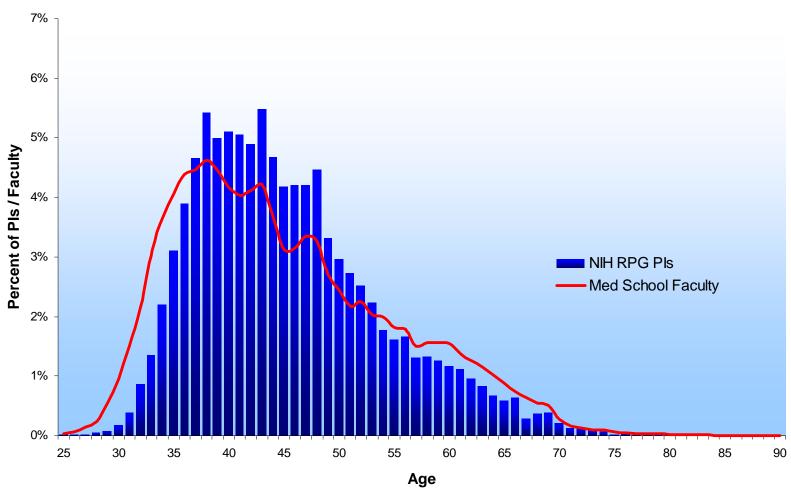
Comparison of the Age of NIH PIs and 1988 Medical School Faculty



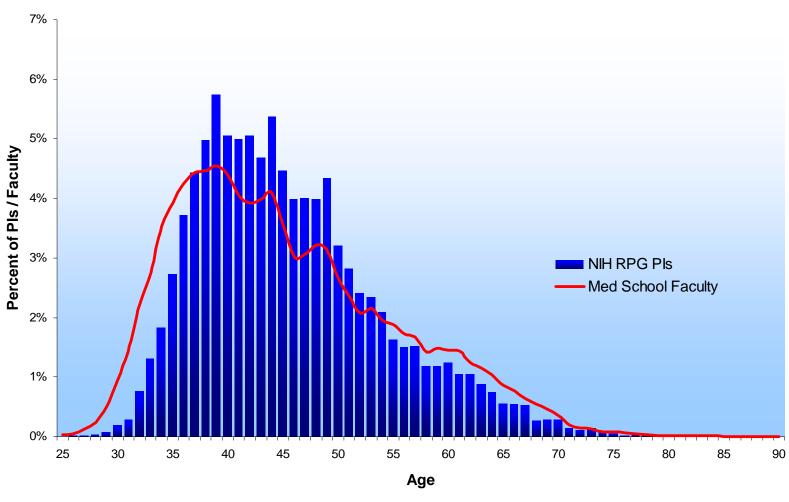
Comparison of the Age of NIH PIs and 1989 Medical School Faculty



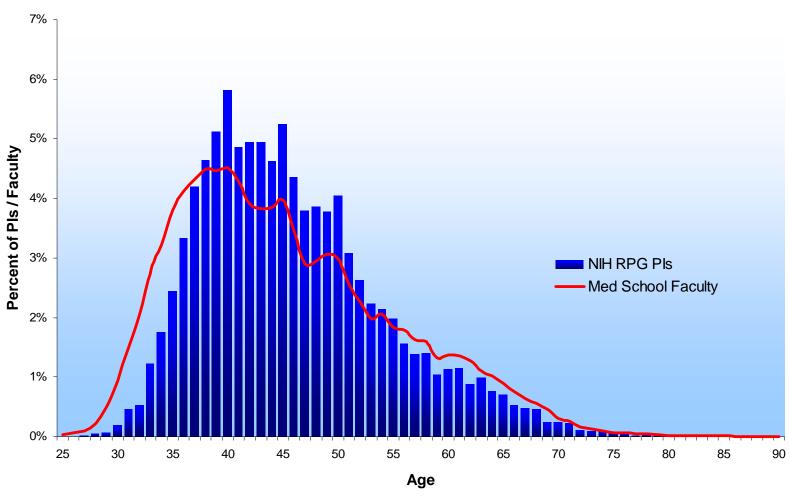
Comparison of the Age of NIH PIs and 1990 Medical School Faculty



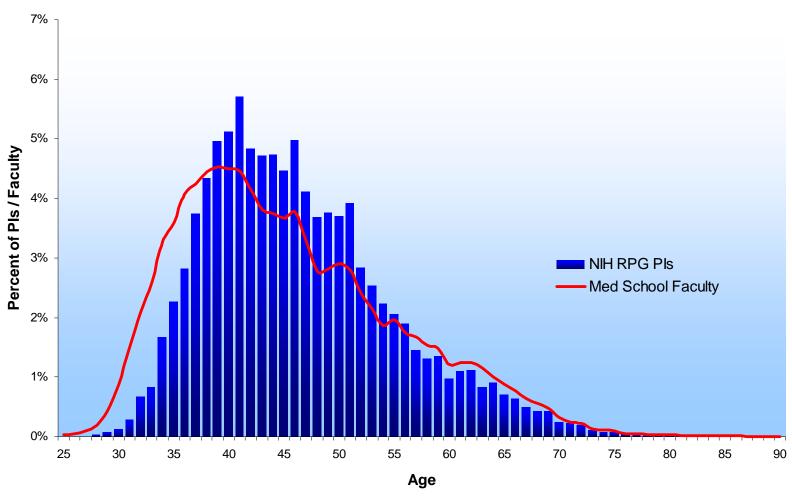
Comparison of the Age of NIH PIs and 1991 Medical School Faculty



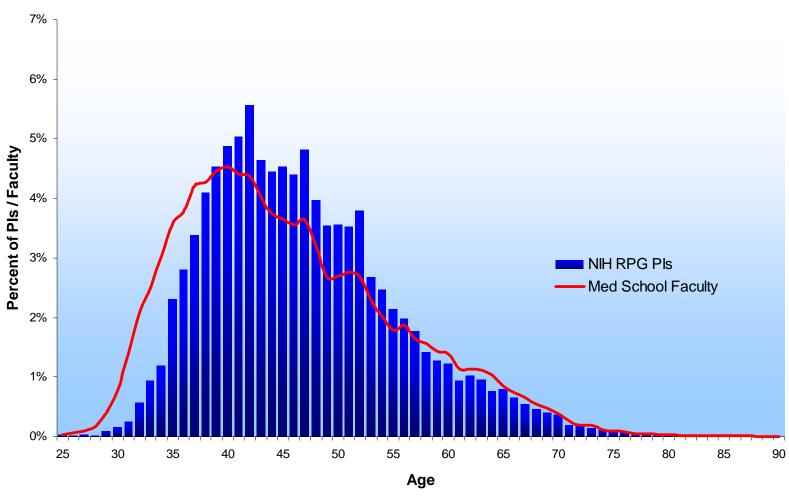
Comparison of the Age of NIH PIs and 1992 Medical School Faculty



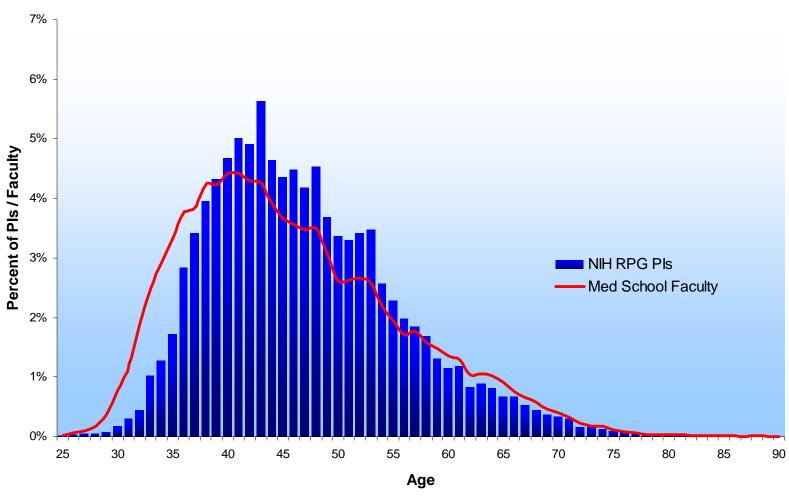
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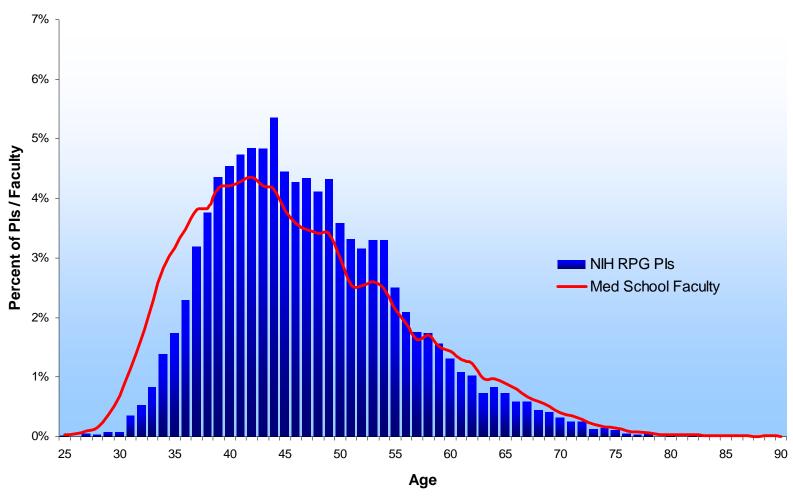
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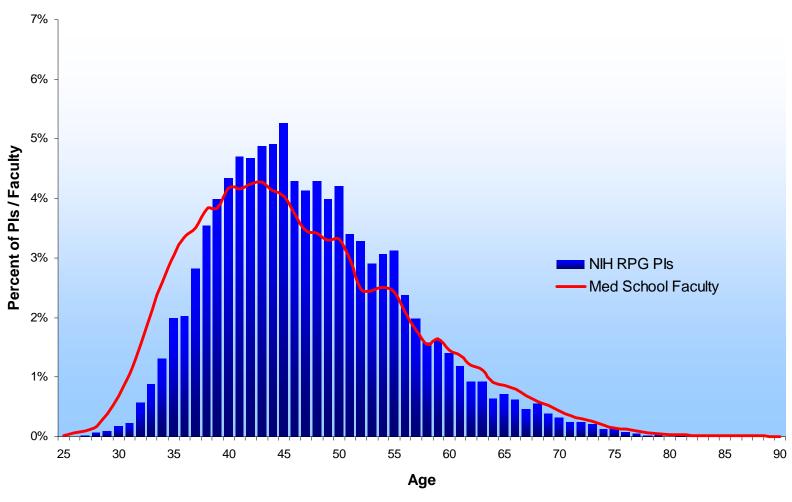
Comparison of the Age of NIH PIs and 1995 Medical School Faculty



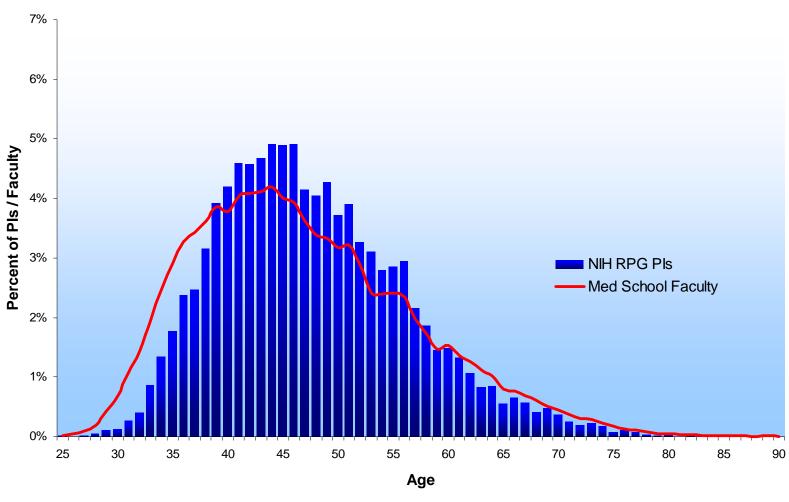
Comparison of the Age of NIH PIs and 1996 Medical School Faculty



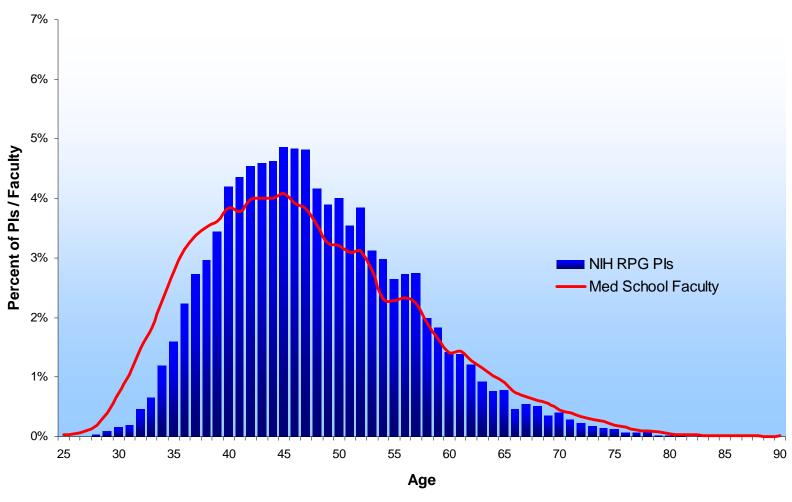
Comparison of the Age of NIH PIs and 1997 Medical School Faculty



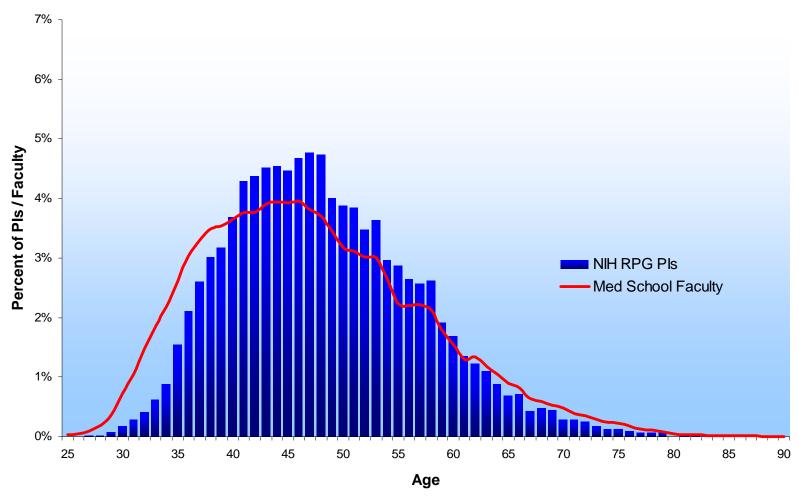
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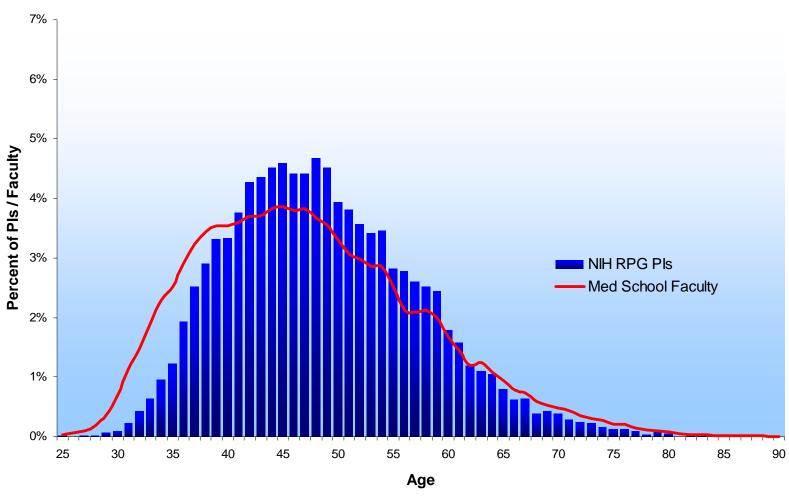
Comparison of the Age of NIH PIs and 1999 Medical School Faculty



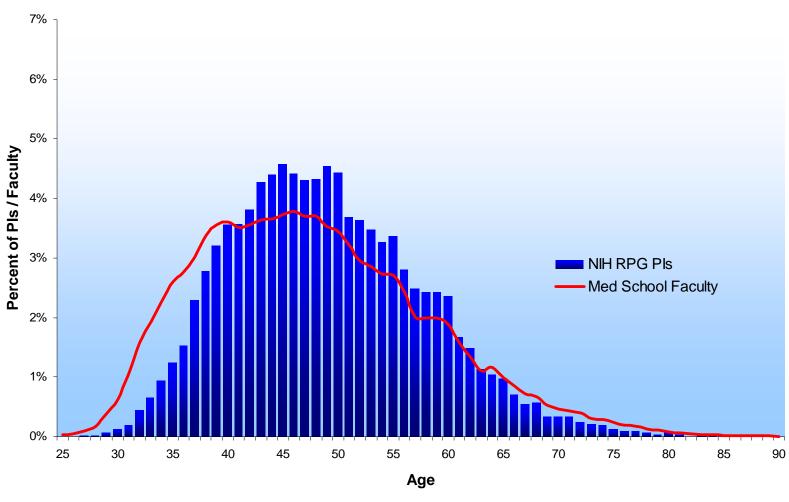
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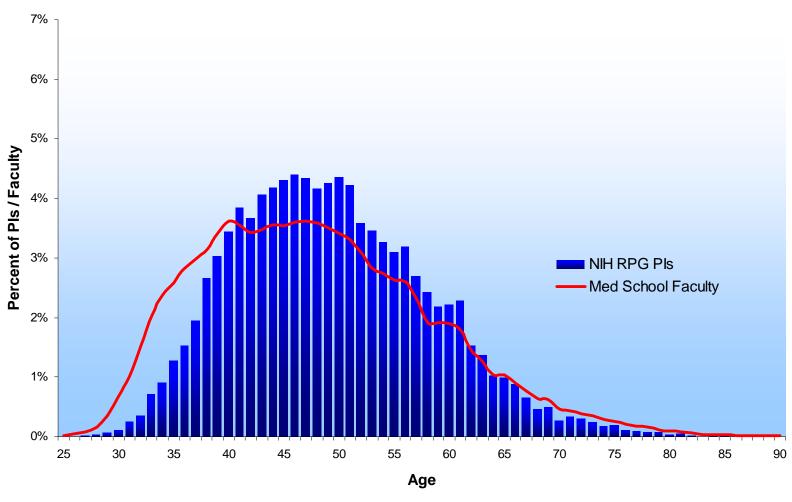
Comparison of the Age of NIH PIs and 2001 Medical School Faculty



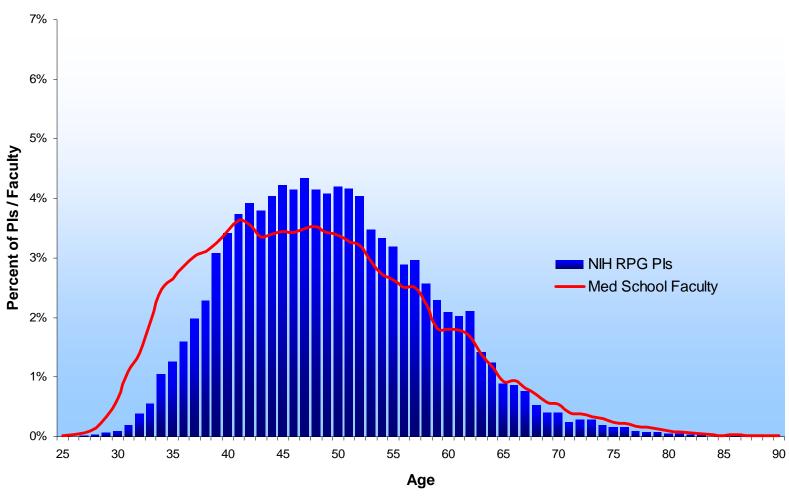
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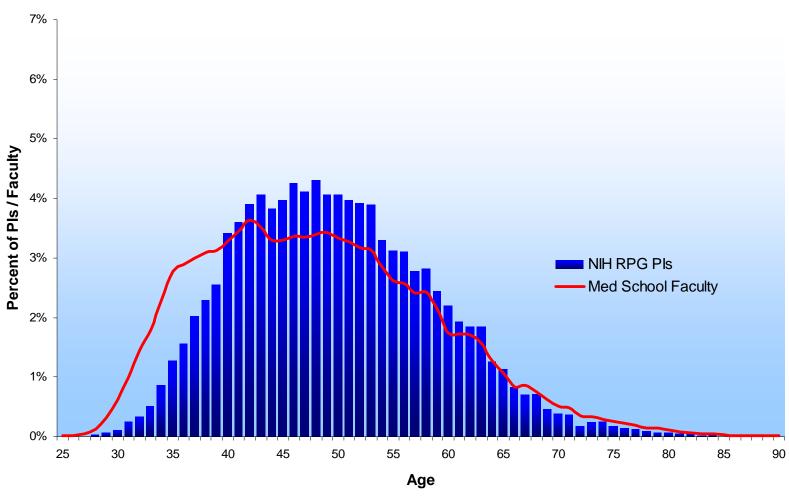
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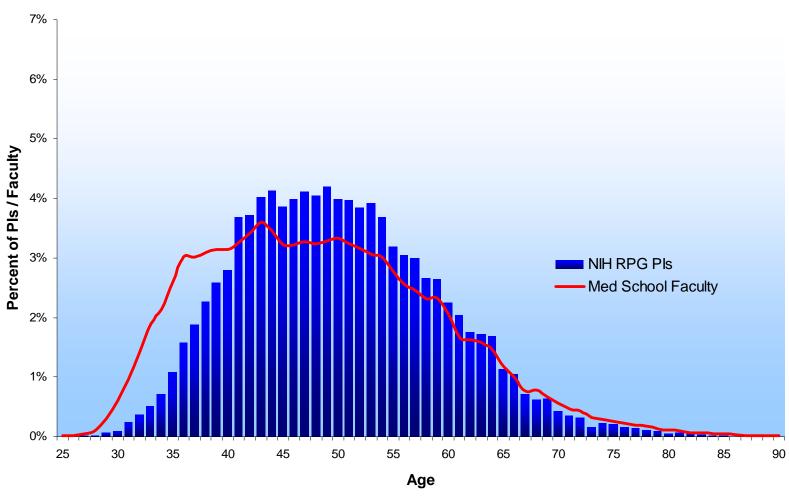
Comparison of the Age of NIH PIs and 2004 Medical School Faculty



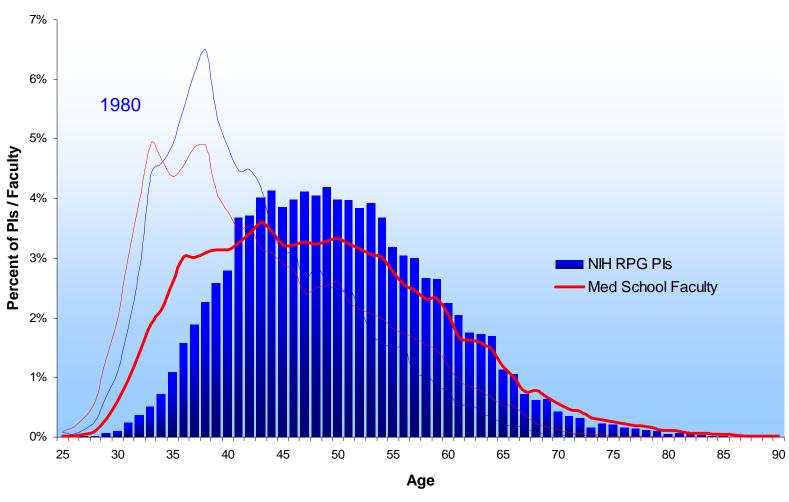
Comparison of the Age of NIH PIs and 2005 Medical School Faculty



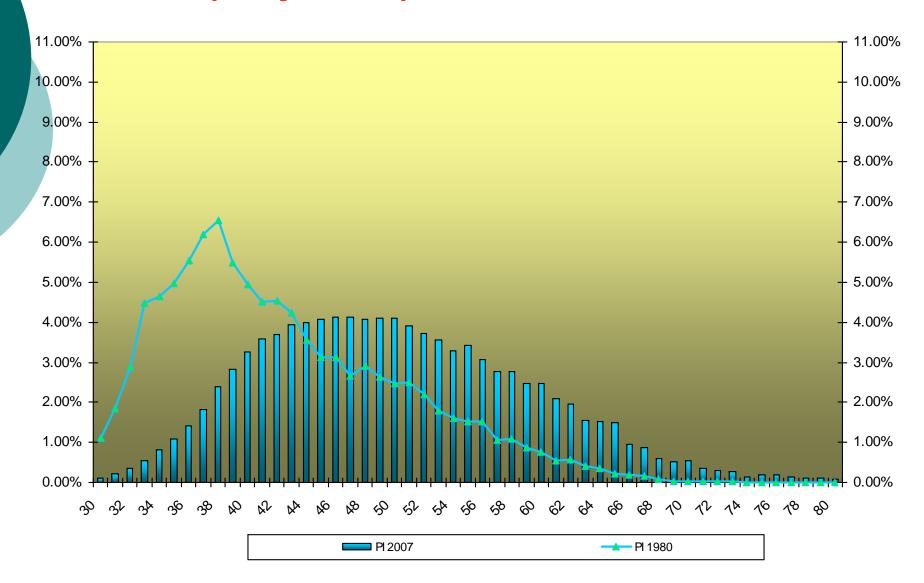
Comparison of the Age of NIH PIs and 2006 Medical School Faculty

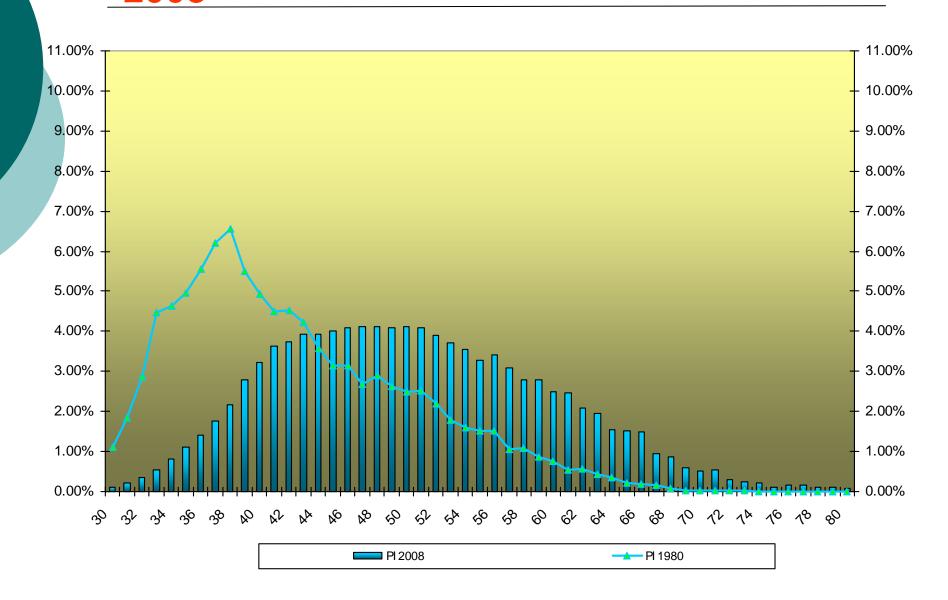


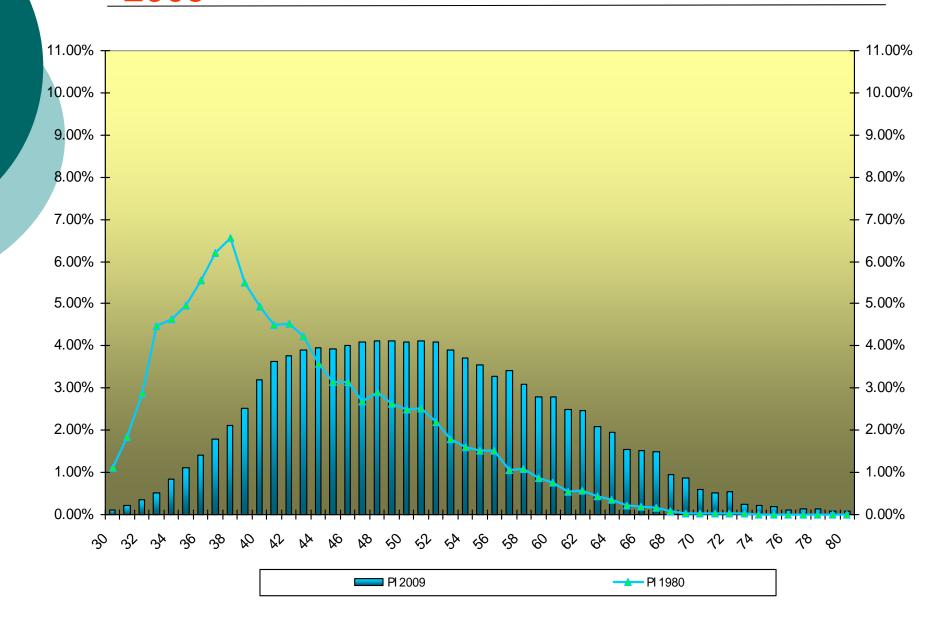
Aging of Both NIH Grantees and Medical School Faculty Cohorts Since 1980

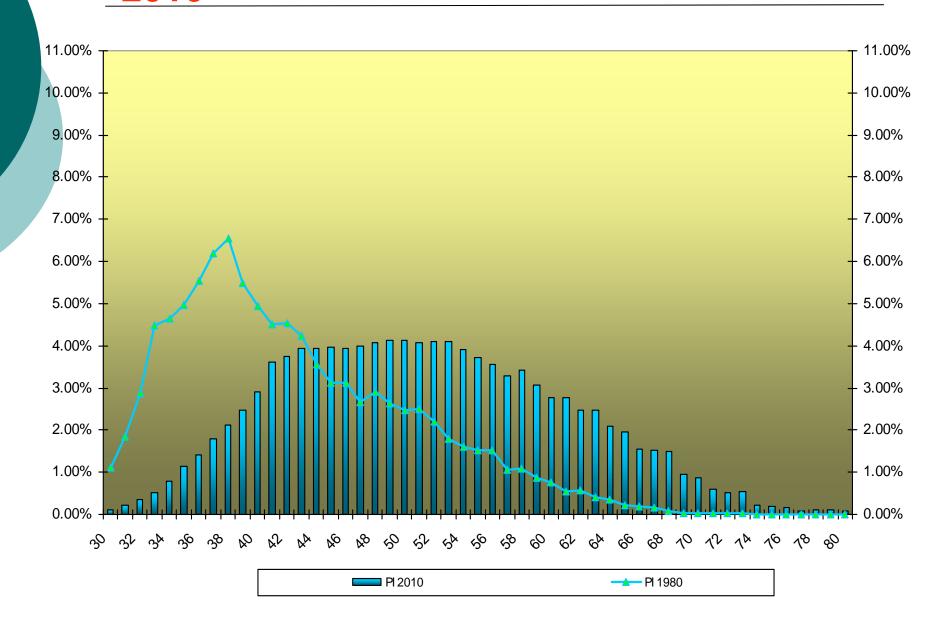


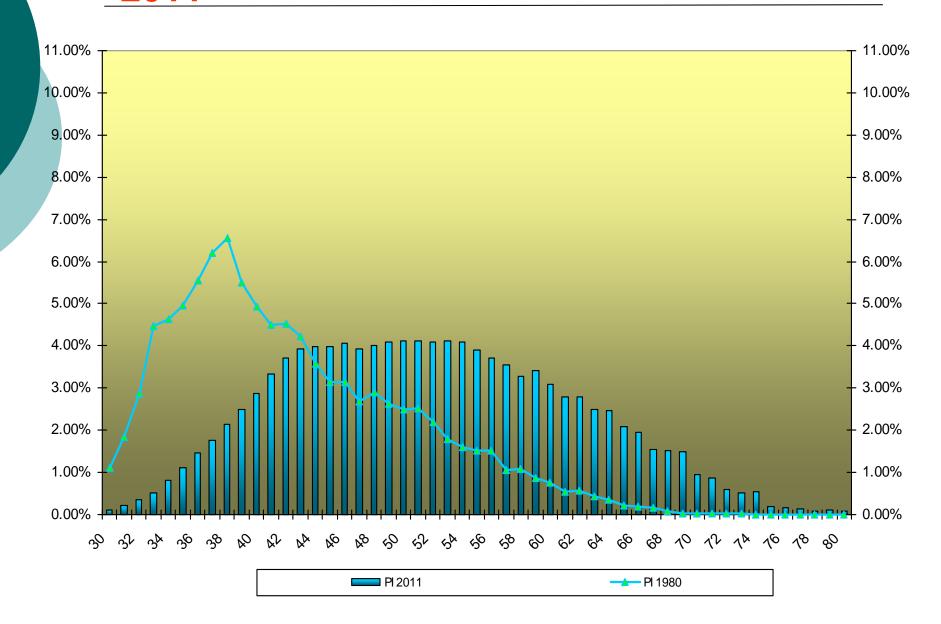
Age Distribution of Pls 2007 (Projection)

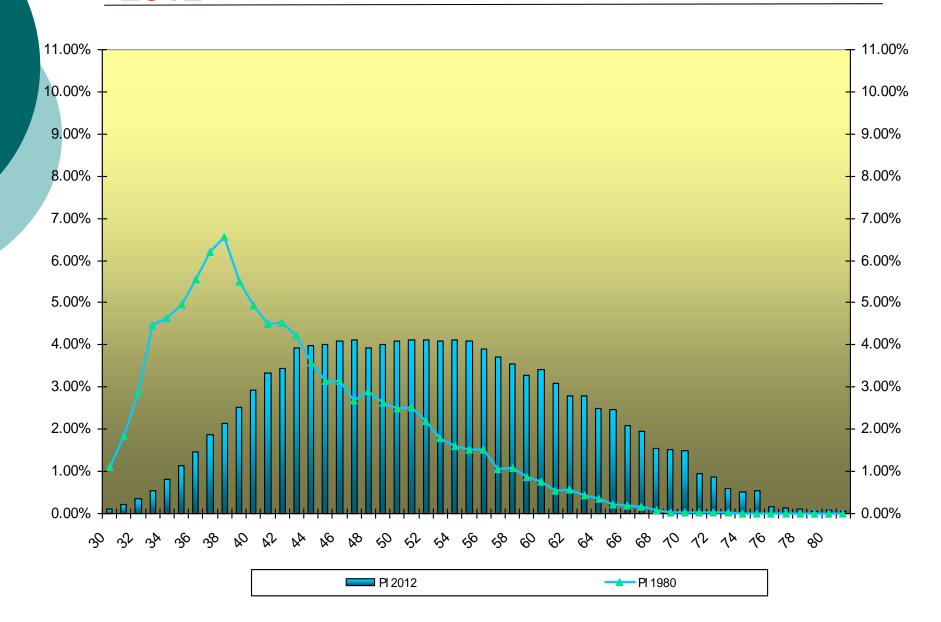


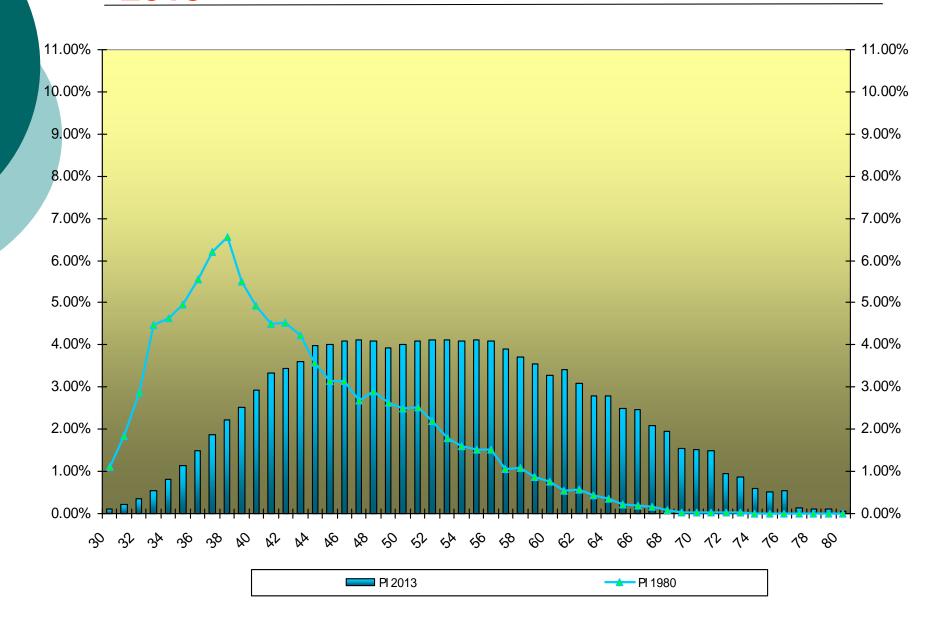


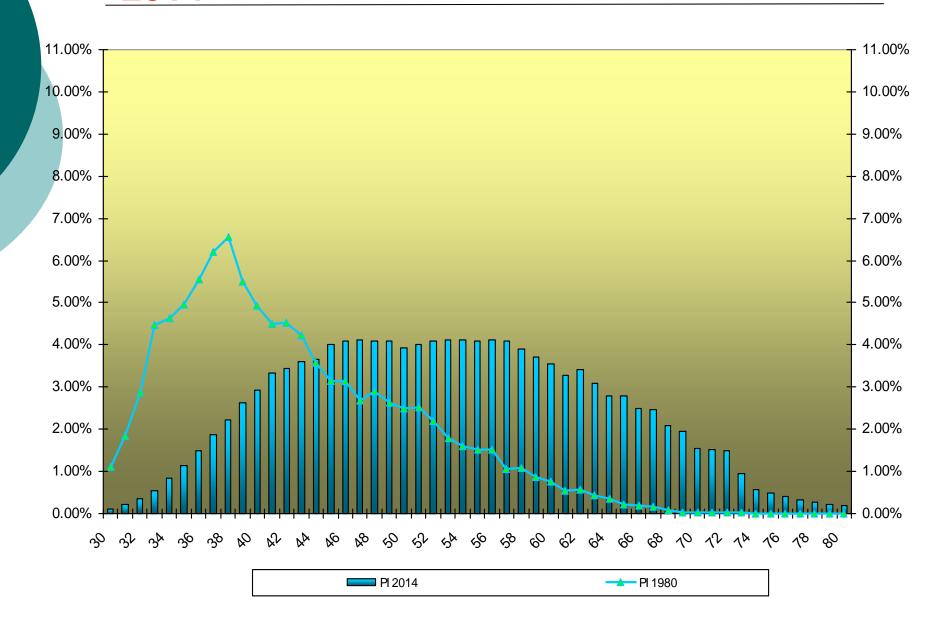


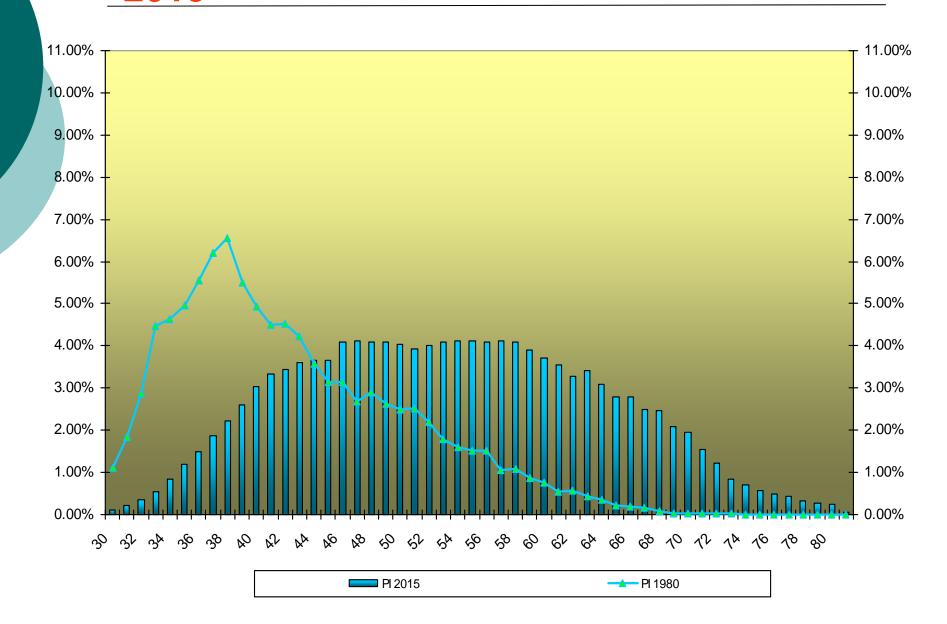


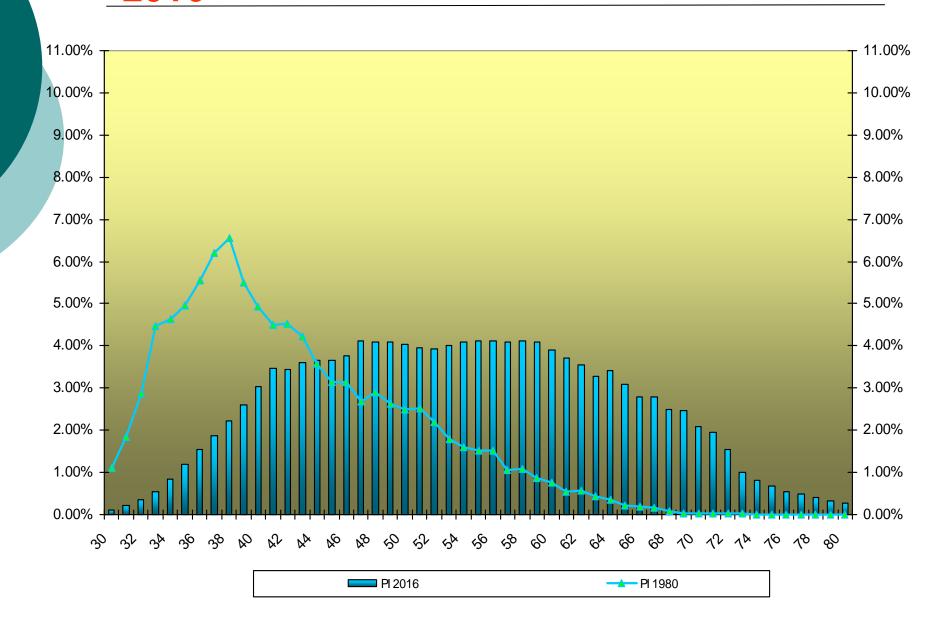


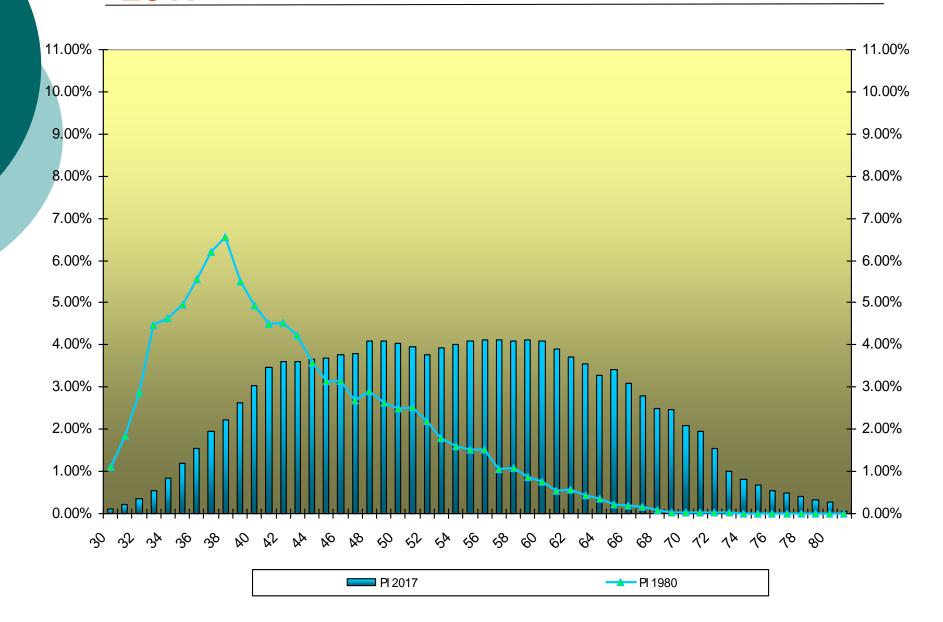


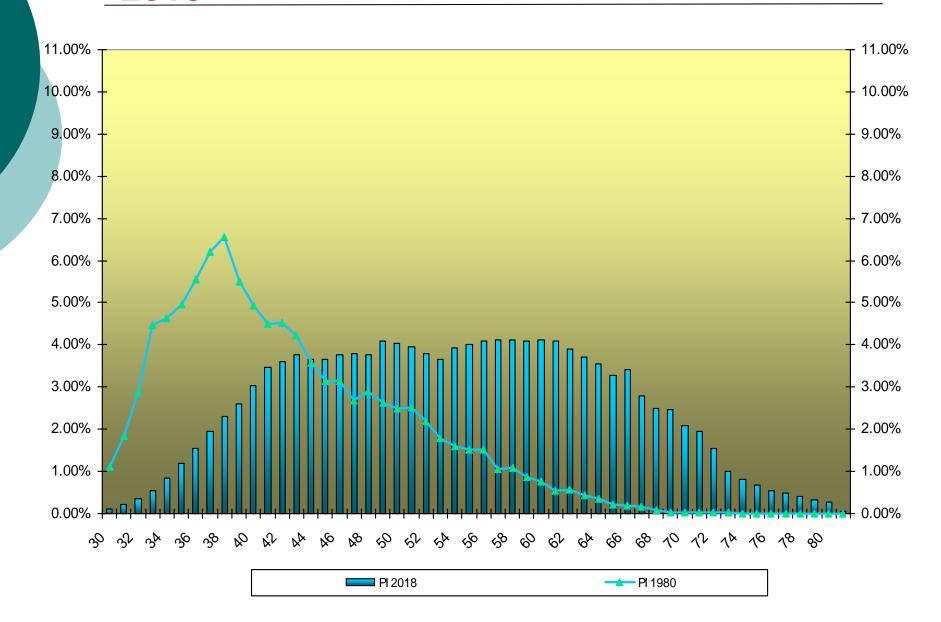


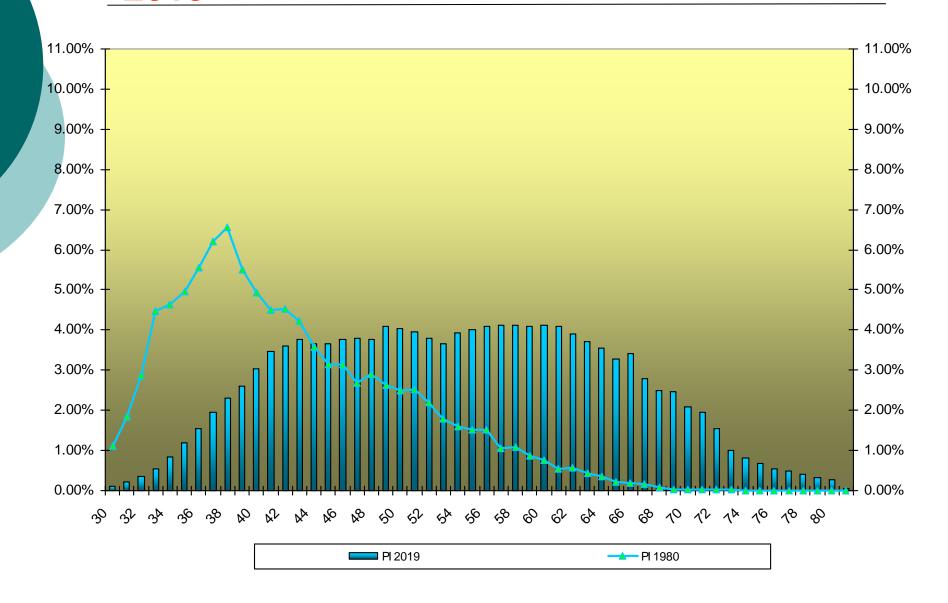


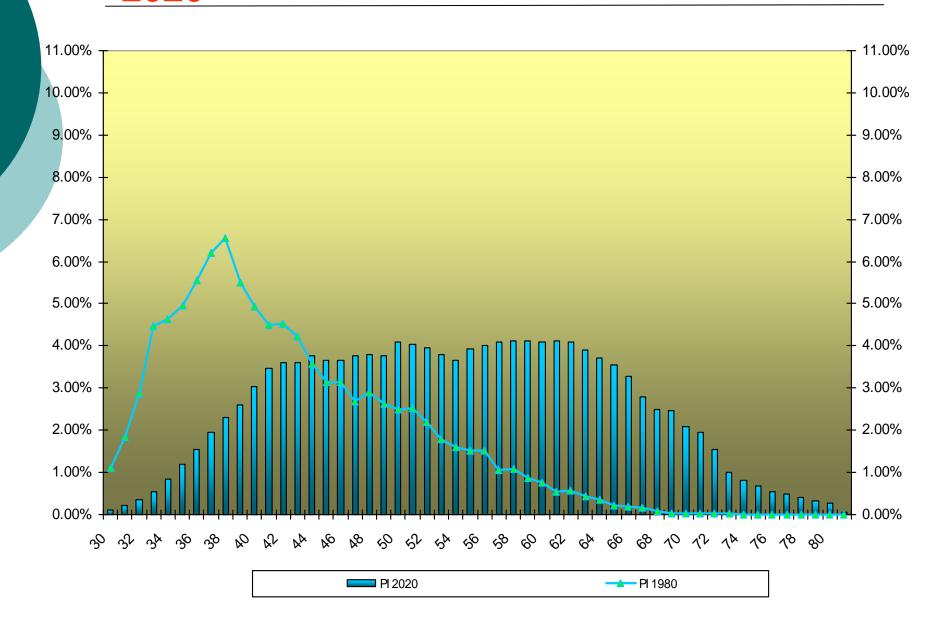


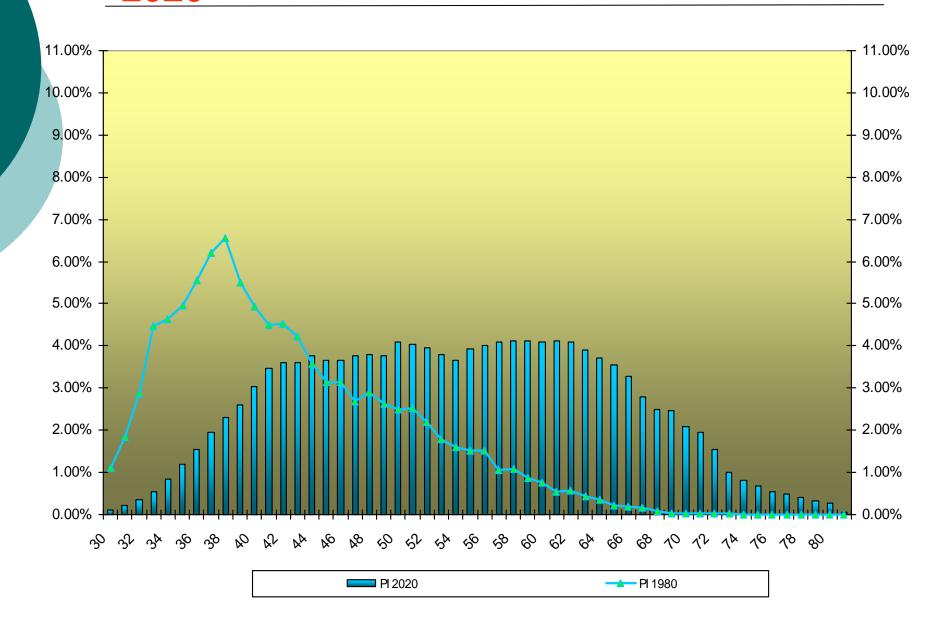




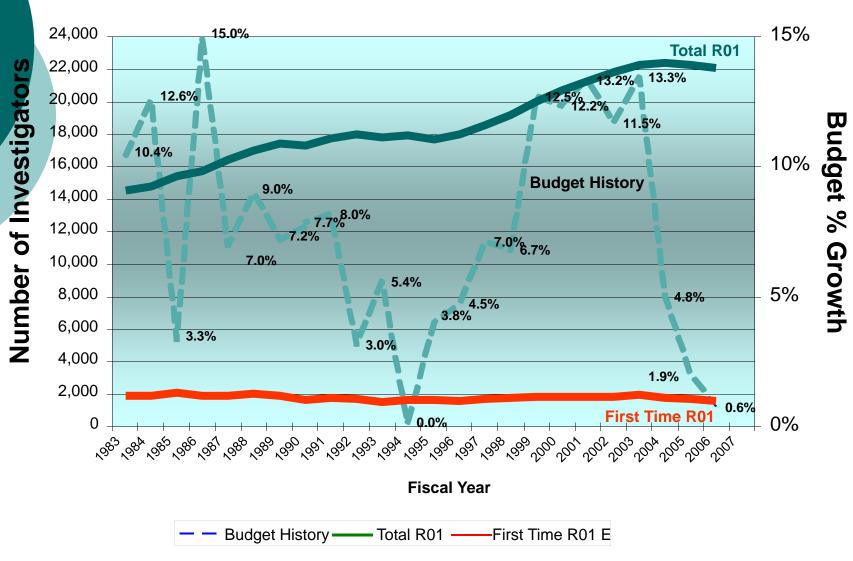




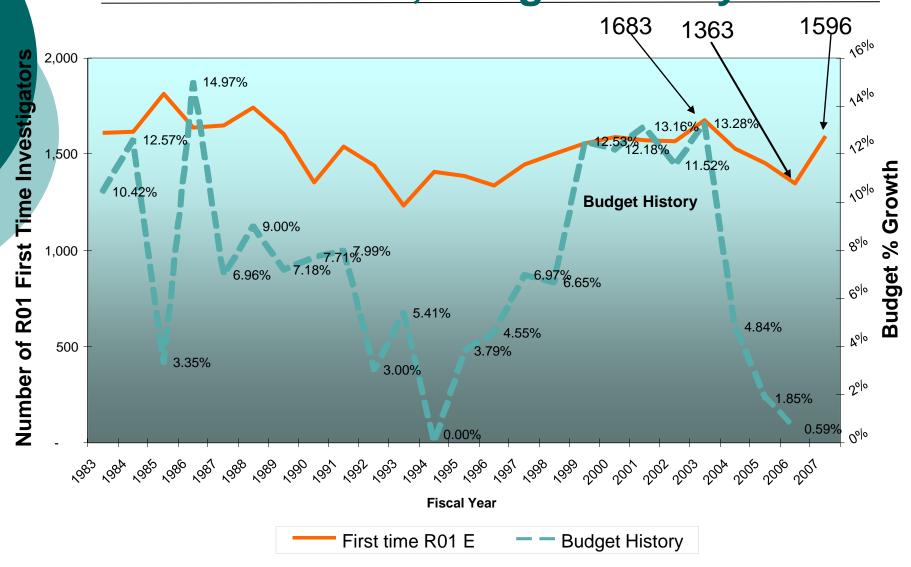




Number of R01 Investigators Is Not Closely Tied to Budget Growth



First Time R01, Budget History



RPG Funding Rates and SuccessRates 1998-2007

FY	Applicants	Awardees	Funding Rate	Applications	Awards	Success Rate
1998	19,662	6,974	35.5%	24,151	7,518	31.1%
2000	22,174	8,022	36.2%	27,798	8,765	31.5%
2002	23,771	8,605	36.2%	30,068	9,396	31.2%
2004	30,258	9,125	30.2%	40,861	10,052	24.6%
2006	33,119	8,406	25.4%	45,688	9,128	20.0%
2007	33,886	9,233	27.2%	47,455	10,100	21.3%

NIH: Adaptive Strategies for Tough Times

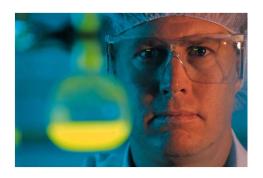


 Our approach in 2007: No inflationary adjustments for noncompeting renewal awards in FY2007



- Stabilize number of competing grants
- Strengthen support for at-risk populations:
 - New Investigators
 - NIH is committed to maintaining historic average
 - First grant renewals
 - Well-established investigators with little or no additional support





2007 Goals–Stabilizing the Number of New Investigators and Bridge Support for More Established Investigators

- Committed to maintaining a baseline number of new R01 investigators
- Average over past five years (FY'02-'06) 1523 new R01 investigators/year
- In FY 2007
 - Funded 1596 new R01 investigators (1353 in 2006)
 - Funding rate of 20.6%, Success rate of 18.5%
 - 265 Director's bridge grants for first renewals and near payline well established Investigators with less than 400k in other funding
- We plan to continue policy in 2008, with a goal of keeping the funding rate for first time R01 applicants ~20% or higher and maintain number of New R01 grantees at average of last five years or higher depending upon quality of applications.

R01 Funding Rates 1998-2007

	First Time Applicants			Previously funded applicants					
				All types			New (type 1) only		
FY	Applicants	Awardees	Funding Rate	Applicants	Awardees	Funding Rate	Applicants	Awardees	Funding Rate
1998	6,171	1,518	24.6%	10,968	4,387	40.0%	7,811	2,234	28.6%
2000	6,752	1,612	23.9%	11,708	4,982	42.6%	8,611	2,657	30.9%
2002	6,868	1,586	23.1%	11,667	4,803	41.2%	8,736	2,494	28.5%
2004	8,155	1,539	18.9%	13,855	4,988	36.0%	10,839	2,564	23.7%
2006	8,183	1,363	16.7%	14,763	4,343	29.4%	10,253	2,180	21.3%
2007	7,758	1,596	20.6%	13,923	4,485	32.2%	9,460	2,254	23.8%
2007 Success Rates: 18.5%			26.1%			19.7%			

New Investigator Awards 2006-2007

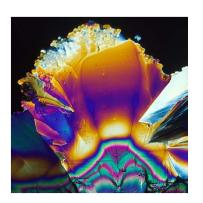
Fiscal year	R01s (R01,R29)	Other Large Awards* (DP1, DP2, R44, U01)	Other Moderate Awards* (R21, R03, R15, R43,R13)
2006	1418	391	1575
2007	1633 (+215)	459 (+68)	1820 (+245)

Pathway to Independence awards K99/R00 not included (171 in 2007) *Preliminary data

Given Budgetary and Demographic trends, it is important for NIH to develop proactive policies based on quantitative long-range forecasts and focus on preserving a dynamic and innovative scientific workforce









Transforming medicine and health through discovery



