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Association of Chairs of Departments of Physiology 2006 Survey Results

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The Association of Chairs of Departments of Physiology annual survey was emailed to 184 physiology departments throughout the US, Canada, and Puerto Rico. A total of 71 surveys were returned, for a response rate of 38.5%. This rate is almost identical to that of the 2005 survey (39%). Of the 71 surveys returned, there were 22 public and 49 private medical schools.

The data provide the reader with general trends of faculty, overall departmental budgets, and space available for research. As a reminder, beginning in 2004, ACDP decided not to include faculty salary information in this report. Because of the limited response rate and variability in departments responding on a year-by-year basis and the completeness of the AAMC salary data, which is more generally used, the ACDP Council decided to no longer collect or report this data. Data are still provided though on tenure, gender, and ethnicity of faculty (Table 1). Also included

in Table 1 for the first time is information on the average number of contact hours for faculty and on the type of medical physiology course being taught.

Student/trainee information is provided by ethnicity for predoctoral and postdoctoral categories, as well as predoctoral trainee completions, stipends provided, and type of support (Table 2).

Institutional information is provided in Table 3. Departmental budget information (Table 4) shows type of support, faculty salaries derived from grants along with negotiated indirect costs to the departments. Table 5 ranks responding Institutions according to their total dollars, research grant dollars, and departmental space. Space averages are presented as research, administration, teaching and other.

For an update of AAMC salary data, please see the accompanying article.

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Faculty Information

Faculty Summary (n=1,322)

	Male	Female	Total
Asian/Pacific Islander	129	42	171
Black (not Hispanic)	6	4	10
Hispanic	27	13	40
Native American	0	0	0
White (not Hispanic)	799	245	1,044
Foreign National	37	20	57
Total	998	324	1,322

Medical Physiology Course Type

	Yes	No	Total Responded
Integrated Disciplines	38	30	68
Traditional	45	24	69
Within Traditional	44	25	69

Tenure Status in each department by degree

	Tenured	Not Tenured	Not Eligible	Total
MD	24	0	12	36
PhD	834	22	344	1,200
2 Doctorates	42	2	16	60
Other	9	0	18	27
Total	909	24	390	1,323

For your faculty, what is the average number of hours of student contact (per year) for:

	Student Type	Average (hours)	Number (inst.)
Lab Hours	Graduate	264	41
	Medical	17	40
	Other	56	20
Lectures	Graduate	180	68
	Medical	596	70
	Other	63	44
Small Group	Graduate	49	45
	Medical	43	60
	Other	22	16

Teaching Interactions

MD/DO	69
DDS	23
DVM	3
Allied Health	36
Pharmacy	18
Other Biomedical	47
Life Science	36
Bioengineering	26
Other	20

Student/Trainee Information

Student/Trainee Summary

US citizen/resident aliens

Predoctoral male	429	Postdoctoral male	186
Predoctoral female	478	Postdoctoral female	153

Foreign

Predoctoral male	211	Postdoctoral male	376
Predoctoral female	232	Postdoctoral female	254

Ethnicity of each pre- postdoctoral student/trainee

	Pre-doctoral		Postdoctoral	
	Male	Female	Male	Female
Native American	10	9	1	1
Asian/Pacific Islander	40	51	29	27
Black (not Hispanic)	21	37	12	10
Hispanic	16	23	9	11
White (not Hispanic)	342	358	135	104

US Citizen/Resident alien postdoctoral trainee completions:

	Male	Female
Native American	0	1
Asian/Pacific Islander	9	10
Black (not Hispanic)	3	3
Hispanic	2	4
White (not Hispanic)	78	77
Total	92	95

Average Annual Stipend (US \$)

	Average	Number
Postdoctoral	\$37,123.45	69
Pre-doctoral	\$21,997.68	69

Predoctoral Trainee Completions Trainees completing doctoral work during year ending 6/30/2006.

	Total
Female	134
Male	124
Total	258

Foreign National predoctoral trainee completions:

	Male	Female
African	1	0
Asian/Pacific Islander	21	20
Central/South American	0	4
European/Canadian, etc.	9	11
Middle Eastern	1	3
Other	1	0
Total	33	38

Student/Trainee Information (continued)

	Predoctoral		Postdoctoral	
	Male	Female	Male	Female
African	3	5	6	1
Asian/Pacific Islander	124	151	221	145
Central/South American	16	13	19	21
European/Canadian, etc.	46	45	105	71
Middle Eastern	21	16	13	11
Other	1	2	12	5
Total	211	232	376	254

	Number of Foreign Pre- Postdoctoral trainees whose primary source of support is:	
	Pre-doctoral	Postdoctoral
Institutional	159	49
Research Grants	295	501
Private Foundations	23	41
Home (foreign) Gov.	10	6
Other	19	4
Total	506	601

Institution Summary

Type of Institution

Private	49
Public	22
Total	71

Space Controlled by Department (n=74)

	Average
Research Space	18,314
Administrative Space	3,328
Teaching Space	2,765
Other Space:	3,009
Total Space	27,416

Institutional Financial Information

Budget by Institution

	All Institutions		Private Medical		Public Medical		Nonmedical	
		No.		No.		No.		No.
Institutional (Hard money, e.g, operating costs, state allocations)	\$1,975,008	70	1,614,548	19	\$1,858,642	38	\$2,451,835	13
Outside Research Grants and Contracts (direct costs only)	4,903,908	70	6,242,883	19	3,890,299	38	4,578,541	13
Training Grants (direct costs only)	302,926	40	461,265	12	246,143	21	201,371	7
Endowments	292,217	39	218,050	9	494,129	21	164,473	9
Indirect Cost Recovery (amount returned to your department)	704,107	47	1,533,456	5	187,744	32	391,120	10
Other Budget Support (identify)	439,004	60	589,542	14	317,434	38	410,037	8
Average Departmental Budget	8,063,870		9,089,983		6,633,573		7,805,864	

Financial Information

Current fringe benefit rate most frequently used for Primary faculty	27.11	(n=73)
Federally negotiated indirect cost rate for FY 06-07 off campus	26.22	(n=59)
Federally negotiated indirect cost rate for FY 06-07 on campus	50.03	(n=70)
Percentage of allocated salary dollars directly returned to your department	72.44	(n=50)
Percentage of indirect costs returned to your department	21.61	(n=44)
Percentage of total faculty salaries derived from research grants (does not include fringe benefits costs)	35.61	(n=70)

Complete Ranking According to Total Dollars

Rank Total Dollars	Total Dollars	Rank Research Grant Dollars	Research Grant Dollars	Rank Research Dollars/ Faculty	Research Dollars/ Faculty	Rank Total Research Space	Total Research Space	Rank Research Dollars/ sq ft	Research Dollars/ sq ft	No. of faculty
1	\$30,533,997	1	\$27,643,710	1	\$987,275	1	49,831	3	555	28
2	22,145,708	2	15,256,573	2	953,536	6	31,125	5	490	16
3	19,785,756	3	10,810,870	8	400,403	22	20,812	4	519	27
4	14,769,583	5	10,637,889	13	354,596	17	23,039	9	462	30
5	14,492,047	4	10,710,742	9	396,694	9	27,824	13	385	27
6	13,048,908	6	9,584,578	6	504,451	21	21,634	10	443	19
7	12,678,601	20	5,879,305	41	195,977	31	17,737	15	331	30
8	12,652,140	14	6,997,205	26	269,123	45	14,700	7	476	26
9	11,958,049	7	8,304,066	4	593,148	26	19,670	11	422	14
10	10,929,095	15	6,639,288	14	349,436	3	37,738	46	176	19
11	10,753,500	10	7,603,869	28	253,462	14	24,252	18	314	30
12	10,681,130	11	7,455,920	16	338,905	2	41,083	43	181	22
13	10,572,306	12	7,057,398	23	306,843	13	24,488	22	288	23
14	10,538,633	8	8,103,278	22	311,665	52	13,500	2	600	26
15	10,472,723	9	7,865,259	19	327,719	35	16,786	8	469	24
16	10,090,664	13	7,044,630	12	370,770	4	34,392	38	205	19
17	9,804,408	16	6,543,110	35	218,104	10	27,751	30	236	30
18	9,701,418	22	5,584,967	11	372,331	20	22,153	26	252	15
19	9,511,536	19	6,114,009	7	470,308	11	26,187	31	233	13
20	9,090,670	18	6,120,977	37	211,068	36	16,726	14	366	29
21	9,046,362	17	6,236,608	21	311,830	12	24,805	27	251	20
22	8,523,757	29	4,061,483	53	135,383	19	22,707	45	179	30
23	8,459,303	59	1,869,232	65	84,965	53	12,729	57	147	22
24	8,107,172	42	3,375,669	25	281,306	42	15,628	36	216	12
25	8,094,316	21	5,865,398	38	209,479	5	34,361	47	171	28
26	7,856,003	28	4,200,000	45	190,909	18	22,934	42	183	22
27	7,597,712	34	3,875,145	33	227,950	15	23,482	49	165	17
28	7,518,125	31	3,973,629	29	248,352	27	19,480	39	204	16
29	7,426,343	23	5,059,205	17	337,280	62	10,358	6	488	15
30	7,225,412	24	4,890,226	10	376,171	25	20,080	29	244	13
31	7,136,691	44	3,198,004	47	188,118	29	18,765	48	170	17
32	7,119,044	37	3,790,534	48	172,297	16	23,087	50	164	22
33	6,818,028	26	4,503,528	42	195,806	8	28,547	52	158	23
34	6,494,042	30	4,049,448	31	238,203	49	13,790	21	294	17
35	6,404,380	39	3,718,104	43	195,690	7	28,664	61	130	19

Rank Total Dollars	Total Dollars	Rank Research Grant Dollars	Research Grant Dollars	Rank Research Dollars/ Faculty	Research Dollars/ Faculty	Rank Total Research Space	Total Research Space	Rank Research Dollars/ sq ft	Research Dollars/ sq ft	No. of faculty
36	\$6,366,131	45	\$3,073,069	55	\$133,612	51	13,624	33	226	23
37	6,277,125	33	3,888,888	20	324,074	32	17,535	34	222	12
38	6,272,704	38	3,737,986	27	266,999	34	17,259	35	217	14
39	6,033,422	27	4,257,646	24	304,118	28	18,799	32	226	14
40	5,770,868	35	3,862,361	30	241,398	48	13,987	24	276	16
41	5,671,932	53	2,403,067	58	109,230	37	16,685	59	144	22
42	5,588,569	43	3,247,652	32	231,975	66	8,385	12	387	14
43	5,469,213	49	2,810,647	36	216,204	30	18,059	53	156	13
44	5,467,266	46	2,902,538	50	170,738	24	20,104	58	144	17
45	5,423,480	32	3,931,350	5	561,621	40	15,955	28	246	7
46	5,340,024	36	3,798,566	15	345,324	55	12,348	20	308	11
47	5,237,590	52	2,564,119	49	170,941	33	17,361	56	148	15
48	4,999,179	55	2,106,474	66	84,259	46	14,185	55	149	25
49	4,821,136	54	2,136,966	44	194,270	67	8,102	25	264	11
50	4,733,162	40	3,642,159	18	331,105	59	11,384	17	320	11
51	4,666,646	50	2,692,777	51	168,299	65	9,368	23	287	16
52	4,642,457	25	4,547,545	46	189,481	47	14,000	16	325	24
53	4,507,158	62	1,662,929	52	166,293	61	10,486	51	159	10
54	4,501,635	51	2,618,954	40	201,458	54	12,500	37	210	13
55	4,470,408	47	2,894,830	39	206,774	64	9,384	19	308	14
56	4,263,152	57	1,897,891	62	94,895	39	16,014	63	119	20
57	4,118,630	60	1,768,362	63	88,418	57	11,730	54	151	20
58	4,063,631	56	1,900,693	61	100,036	44	14,921	62	127	19
59	4,059,924	58	1,876,428	54	134,031	63	10,042	40	187	14
60	4,022,101	48	2,894,683	34	222,668	41	15,650	41	185	13
61	3,868,229	41	3,594,115	3	599,019	70	4,850	1	741	6
62	3,431,869	61	1,700,850	60	100,050	56	12,009	60	142	17
63	3,356,653	65	1,112,335	68	55,617	69	6,165	44	180	20
64	3,249,187	64	1,375,695	59	105,823	43	15,111	66	91	13
65	2,969,125	67	1,035,481	64	86,290	23	20,269	68	51	12
66	2,822,066	63	1,596,000	56	133,000	50	13,629	64	117	12
67	2,588,568	66	1,099,526	57	109,953	58	11,719	65	94	10
68	2,090,855	69	400,000	71	23,529	38	16,292	71	25	17
69	1,442,057	68	457,300	67	57,163	60	11,203	69	41	8
70	1,285,010	70	238,998	70	26,555	68	7,291	70	33	9
71	1,020,417	71	150,000	69	30,000	71	2,900	67	52	5

AAMC Medical School Faculty Compensation Survey

Each year the American Association of Medical Colleges (AAMC) surveys all the US medical schools as to faculty compensation. Because of this, the ACDP (see associated article) decided to no longer collect the same data from its members.

As a supplement to the ACDP survey, the AAMC has agreed to allow the APS to publish selected results from their survey.

Table 1 shows the regional distribution of medical schools responding to the AAMC survey in terms of public medical and private medical. Also shown is the number of physiology departments in those regions that responded.

Summary statistics on faculty compensation in physiology departments for PhD faculty are given in Table 2. Table 3 shows the changes in salary that have occurred over the past three years. The summary statistics for separate regions of the country are given in Table 4.

Table 5 shows the salary comparison between PhD faculty in all basic science departments vs. those in physiology departments. ❖

Table 1. Distribution of Medical Schools Responding to AAMC Medical School Faculty Compensation Survey.

		Northeast	Midwest	South	West	TOTAL
All	Private Medical	20	9	9	2	40
	Public Medical	7	10	16	10	43
Physiology	All Medical Schools	18	21	29	9	77

Table 2. Summary Statistics on Physiology Department PhD Faculty Compensation.

		25th	Median	75th	Mean	Number of Faculty
Chair	All Schools	175,000	205,000	247,000	213,000	213,000
	Medical Public	161,000	201,000	232,000	200,400	200,400
	Medical Private	182,000	233,000	288,000	241,000	241,000
Professor	All Schools	114,000	133,000	160,000	140,300	140,300
	Medical Public	114,000	131,000	152,000	137,900	137,900
	Medical Private	114,000	143,000	166,000	146,000	146,000
Associate Professor	All Schools	83,000	92,000	101,000	93,400	93,400
	Medical Public	83,000	93,000	102,000	93,700	93,700
	Medical Private	82,000	91,000	98,000	92,900	92,900
Assistant Professor	All Schools	61,000	76,000	87,000	75,200	75,200
	Medical Public	62,000	76,000	86,000	75,200	75,200
	Medical Private	60,000	75,000	87,000	75,200	75,200
Instructor	All Schools	43,000	47,000	53,000	48,700	48,700
	Medical Public	42,000	46,000	53,000	47,600	47,600
	Medical Private	44,000	48,000	53,000	50,800	50,800

Table 3. Change in Total Compensation for Physiology Department PhD Faculty.

2005-2006		2004-2005		2003-2004		% Change 2004-2005 to 2005-2006	
Mean	Median	Mean	Median	Mean	Median	Mean	Median
109,800	100,000	104,900	96,000	100,800	94,000	4.7	4.2

Mean and median values were combined for Assistant, Associate, and Professor.

Table 4. Summary Statistics on Physiology Department PhD Faculty Compensation by Region.

		Northeast	Midwest	South	West
Chair	25th	197,000	192,000	148,000	197,000
	Median	223,000	217,000	180,000	216,000
	75th	275,000	264,000	232,000	269,000
	Mean	235,600	223,400	185,600	232,000
	Total Faculty	18	21	29	9
Professor	25th	119,000	114,000	104,000	124,000
	Median	144,000	130,000	121,000	143,000
	75th	165,000	153,000	150,000	171,000
	Mean	147,100	137,600	130,400	154,000
	Total Faculty	165	167	198	95
Associate Professor	25th	85,000	82,000	82,000	87,000
	Median	93,000	92,000	90,000	98,000
	75th	102,000	99,000	100,000	109,000
	Mean	96,900	92,200	91,400	96,400
	Total Faculty	81	92	122	30
Assistant Professor	25th	69,000	56,000	58,000	75,000
	Median	83,000	70,000	73,000	87,000
	75th	92,000	80,000	82,000	98,000
	Mean	81,900	68,300	71,400	85,900
	Total Faculty	119	119	115	43
Instructor	25th	45,000	47,000	41,000	
	Median	50,000	49,000	45,000	
	75th	60,000	52,000	48,000	
	Mean	52,400	51,000	45,200	
	Total Faculty	23	10	43	4

Table 5. Salary comparison between all basic science departments and physiology departments.

		All Basic Science Departments	Physiology
Chair	25th	172,000	175,000
	Median	207,000	205,000
	75th	253,000	247,000
	Mean	214,300	213,000
	Total Faculty	533	77
Professor	25th	114,000	114,000
	Median	137,000	133,000
	75th	167,000	160,000
	Mean	144,800	140,300
	Total Faculty	4,109	625
Associate Professor	25th	83,000	83,000
	Median	95,000	92,000
	75th	109,000	101,000
	Mean	97,800	93,400
	Total Faculty	2,665	325
Assistant Professor	25th	64,000	61,000
	Median	76,000	76,000
	75th	86,000	87,000
	Mean	76,400	75,200
	Total Faculty	3,718	396
Instructor	25th	45,000	43,000
	Median	50,000	47,000
	75th	59,000	53,000
	Mean	53,300	48,700
	Total Faculty	662	80