

Association of Chairs of Departments of Physiology 2007 Survey Results

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The Association of Chairs of Departments of Physiology annual survey was emailed to 189 physiology departments throughout the US, Canada, Mexico, and Puerto Rico. A total of 73 surveys were returned, for a response rate of 39%. This rate is identical to that of the 2005 and 2006 surveys. Of the 73 surveys returned, there were 22 public and 51 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 facul-

ty 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 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 post-

doctoral 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. ❖

Table 1. Faculty Information

Faculty Summary (n=1,355)

	Male	Female	Total
Asian/Pacific Islander	130	37	167
Black (not Hispanic)	7	6	13
Hispanic	40	16	56
Native American	0	0	0
White (not Hispanic)	813	237	1,050
Foreign National	48	21	69
Total	1,038	317	1,355

Medical Physiology Course Type

	Yes	No	Total Responded
Integrated Disciplines	38	27	65
Traditional	40	27	67
Within Traditional	45	24	69

Tenure Status in each department by degree

	Tenured	Not Tenured	Not Eligible	Total
MD	19	1	10	30
PhD	786	18	370	1,174
2 Doctorates	44	1	25	70
Other	10	0	26	36
Total	859	20	431	1,310

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	225	38
	Medical	13	37
	Other	36	20
Lectures	Graduate	154	68
	Medical	611	68
	Other	55	39
Small Group	Graduate	34	46
	Medical	32	55
	Other	21	15

Teaching Interactions

MD/DO	68
DDS	24
DVM	6
Allied Health	34
Pharmacy	16
Other Biomedical	49
Life Science	34
Bioengineering	27
Other	22

Table 2. Student/Trainee Information

Student/Trainee Summary

<i>US citizen/resident aliens</i>			
Predoctoral male	422	Postdoctoral male	162
Predoctoral female	497	Postdoctoral female	130
<i>Foreign</i>			
Predoctoral male	214	Postdoctoral male	379
Predoctoral female	244	Postdoctoral female	242

Ethnicity of each pre- postdoctoral student/trainee

	Pre-doctoral		Postdoctoral	
	Male	Female	Male	Female
Native American	12	10	1	0
Asian/Pacific Islander	32	53	28	24
Black (not Hispanic)	19	36	5	7
Hispanic	16	21	9	6
White (not Hispanic)	343	377	119	93

US Citizen/Resident alien postdoctoral trainee completions:

	Male	Female
Native American	0	3
Asian/Pacific Islander	7	13
Black (not Hispanic)	4	4
Hispanic	4	1
White (not Hispanic)	58	53
Total	73	74

Average Annual Stipend (US \$)

	Average	Number
Postdoctoral	\$37,708.40	70
Pre-doctoral	\$22,578.72	69

**Predocotrinal Trainee Completions
Trainees completing doctoral work
during year ending 6/30/2007.**

Total	
Female	109
Male	117
Total	226

Foreign National predoctoral trainee completions:

	Male	Female
African	2	0
Asian/Pacific Islander	25	22
Central/South American	3	1
European/Canadian, etc.	11	10
Middle Eastern	2	2
Other	1	0
Total	44	35

Number of Foreign Pre- & Postdoctoral Students/Trainees

	Predocotrinal		Postdoctoral	
	Male	Female	Male	Female
African	3	5	5	3
Asian/Pacific Islander	123	143	224	136
Central/South American	14	7	15	15
European/Canadian, etc.	45	63	104	73
Middle Eastern	23	17	20	12
Other	6	9	11	3
Total	214	244	379	242

Number of Foreign Pre- & Postdoctoral trainees whose primary source of support is:

	Pre-doctoral	Postdoctoral
Institutional	151	41
Research Grants	319	496
Private Foundations	25	35
Home (foreign) Gov.	8	8
Other	16	13
Total	519	593

Table 3. Institution Summary

Type of Institution

Private	51
Public	22
Total	73

Space Controlled by Department (n=73)

	Average
Research Space	18,829
Administrative Space	3,511
Teaching Space	2,305
Other Space:	3,304
Total Space	27,949

Table 4. Institutional Financial Information

Budget by Institution

	All Institutions	No.	Private Medical	No.	Public Medical	No.	Nonmedical	No.
Institutional (Hard money, e.g., operating costs, state allocations)	\$2,032,603	69	1,875,609	19	\$1,908,619	36	\$2,313,581	14
Outside Research Grants and Contracts (direct costs only)	4,548,212	69	5,918,646	19	4,032,629	36	3,693,361	14
Training Grants (direct costs only)	243,110	41	320,077	12	250,858	22	158,394	7
Endowments	313,714	38	293,287	8	383,546	21	264,310	9
Indirect Cost Recovery (amount returned to your department)	323,134	48	451,554	4	218,404	32	299,445	12
Other Budget Support (identify)	542,274	57	1,019,665	9	282,739	38	324,419	10
Average Departmental Budget	8,003,047		9,878,838		7,076,794		7,053,509	

Financial Information

Current fringe benefit rate most frequently used for Primary faculty	27.26	(n=73)
Federally negotiated indirect cost rate for FY 07-08 off campus	26.12	(n=58)
Federally negotiated indirect cost rate for FY 07-08 on campus	50.69	(n=71)
Percentage of allocated salary dollars directly returned to your department	72.64	(n=44)
Percentage of indirect costs returned to your department	20.62	(n=47)
Percentage of total faculty salaries derived from research grants (does not include fringe benefits costs)	37.56	(n=68)

The Integrative Biology of Exercise - V

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Preliminary Program

- Regulation of Peripheral Vascular Resistance
- Control of Ribosomal Biogenesis in Muscle Hypertrophy
- Muscle as an Endocrine Organ: Intertissue Influences
- Stem Cells and Nuclear Domains in Skeletal and Cardiac Muscle
- Somatic and Sympathetic Neural Control During Exercise
- Comparative Exercise Physiology: Linking Animal Locomotion To Human Performance
- Reactive Oxygen Species: Consequences On Cellular Metabolism
- Remodeling of the Extracellular Matrix of Tendon and Skeletal Muscle in Response To Exercise
- Signaling Mechanisms Regulating Metabolic and Transcription Processes In Skeletal Muscle
- Roles of Biomechanical Signaling In Cardiac and Skeletal Muscle
- Role of Inflammation in Healthy, Diseased and Aged Muscle
- Sarcolemmal, T-Tubule and Intracellular Determinants of Contractile Function In Skeletal Muscle

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Table 5. 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	\$23,609,865	1	\$19,660,697	2	\$819,196	1	42,475	5	463	24
2	22,802,245	2	15,083,864	1	942,742	10	32,376	4	466	16
3	15,734,925	3	13,325,746	7	444,192	8	33,293	11	400	30
4	13,569,267	4	9,605,639	17	320,188	22	23,039	9	417	30
5	12,862,780	17	6,052,444	41	201,748	34	17,737	15	341	30
6	12,298,561	12	7,273,605	12	382,821	3	36,086	45	202	19
7	12,295,920	6	8,481,178	9	403,866	11	31,213	24	272	21
8	12,211,675	5	8,841,770	5	491,209	19	23,679	13	373	18
9	12,163,290	25	4,419,475	30	232,604	38	16,726	27	264	19
10	12,016,365	15	6,352,422	36	211,747	45	14,700	7	432	30
11	11,743,611	9	7,610,023	13	362,382	60	11,069	1	688	21
12	11,558,639	8	7,682,125	14	334,005	16	25,799	21	298	23
13	11,529,686	7	7,811,518	11	390,576	6	35,223	38	222	20
14	11,083,392	13	7,024,560	4	501,754	15	26,187	25	268	14
15	10,886,109	14	6,444,781	34	214,826	17	24,876	28	259	30
16	10,670,585	10	7,500,000	24	267,857	9	32,433	34	231	28
17	9,486,907	16	6,306,165	37	210,206	14	28,570	39	221	30
18	9,038,111	21	5,383,769	23	283,356	2	41,083	56	131	19
19	9,028,777	33	4,005,000	48	174,130	5	35,361	59	113	23
20	8,975,012	18	5,736,554	31	229,462	18	24,166	33	237	25
21	8,523,757	20	5,493,958	47	183,132	24	22,707	31	242	30
22	8,488,300	19	5,551,947	35	213,536	7	34,361	54	162	26
23	8,255,584	30	4,200,000	56	150,000	23	22,934	50	183	28
24	8,212,904	34	3,969,216	29	233,483	27	20,104	46	197	17
25	7,939,521	23	4,684,966	22	292,810	30	19,480	32	241	16
26	7,894,932	26	4,395,360	38	209,303	25	22,431	48	196	21
27	7,716,670	24	4,607,137	15	329,081	40	16,535	23	279	14
28	7,597,712	52	2,787,066	50	163,945	20	23,482	57	119	17
29	7,398,656	22	4,849,533	21	303,096	61	10,358	3	468	16
30	7,336,942	29	4,202,679	53	161,642	50	13,500	16	311	26
31	7,315,437	28	4,267,318	16	328,255	21	23,053	49	185	13
32	7,269,222	32	4,090,982	25	255,686	29	19,848	43	206	16
33	7,216,319	42	3,571,074	58	142,843	51	13,479	26	265	25
34	7,171,094	41	3,685,366	43	193,967	32	18,264	44	202	19
35	7,128,048	51	2,825,029	61	97,415	12	29,208	65	97	29
36	6,506,289	31	4,181,448	33	220,076	49	13,746	18	304	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
37	\$6,366,131	38	\$3,890,361	51	\$162,098	64	9,270	8	420	24
38	6,332,303	35	3,953,543	27	247,096	41	16,300	30	243	16
39	6,294,559	27	4,328,778	20	309,198	31	18,799	35	230	14
40	6,100,774	63	1,379,875	66	86,242	4	36,000	71	38	16
41	6,005,412	37	3,895,176	28	243,449	35	17,535	37	222	16
42	5,987,823	44	3,428,489	32	228,566	65	8,384	10	409	15
43	5,788,031	47	3,101,652	57	147,698	28	19,996	55	155	21
44	5,778,477	55	2,668,398	45	190,600	67	6,997	12	381	14
45	5,408,753	36	3,934,904	10	393,490	58	11,384	14	346	10
46	5,089,223	43	3,567,989	3	509,713	42	15,955	36	224	7
47	5,044,006	40	3,687,677	8	409,742	55	12,348	20	299	9
48	5,019,933	56	2,476,265	64	88,438	47	14,185	53	175	28
49	4,952,612	39	3,764,649	19	313,721	44	15,070	29	250	12
50	4,799,956	49	3,011,450	55	150,573	13	28,664	63	105	20
51	4,675,712	60	1,963,414	54	151,032	36	17,361	60	113	13
52	4,667,540	53	2,719,217	39	209,171	54	12,500	40	218	13
53	4,666,646	54	2,692,777	49	168,299	63	9,368	22	287	16
54	4,616,560	45	3,308,623	26	254,509	43	15,650	42	211	13
55	4,561,644	57	2,105,695	52	161,977	33	18,059	58	117	13
56	4,496,913	48	3,055,036	44	190,940	48	14,097	41	217	16
57	4,470,408	50	2,894,830	40	206,774	62	9,384	17	308	14
58	4,094,609	61	1,745,982	62	96,999	39	16,699	64	105	18
59	3,789,153	58	2,101,859	59	123,639	56	12,009	52	175	17
60	3,686,809	64	1,283,480	68	67,552	57	11,730	61	109	19
61	3,598,495	59	2,086,738	46	189,703	68	6,947	19	300	11
62	3,470,451	46	3,126,959	6	446,708	70	6,000	2	521	7
63	3,357,326	66	1,099,765	70	47,816	69	6,165	51	178	23
64	3,201,728	68	1,006,568	67	71,898	46	14,517	67	69	14
65	2,969,125	67	1,035,481	65	86,290	26	20,269	69	51	12
66	2,846,260	65	1,217,486	63	93,653	53	12,759	66	95	13
67	2,822,066	62	1,426,000	60	118,833	52	13,329	62	107	12
68	2,620,316	69	999,070	42	199,814	71	5,095	47	196	5
69	1,433,237	70	427,980	69	53,498	59	11,203	72	38	8
70	1,248,862	71	187,938	73	18,794	66	7,291	73	26	10
71	1,042,086	11	7,352,792	18	319,687	37	16,786	6	438	23
72	1,020,417	73	150,000	72	25,000	73	2,900	68	52	6
73	966,234	72	151,963	71	30,393	72	3,941	70	39	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	23	11	13	3	50
	Public Medical	12	20	30	13	75
Physiology	All Medical Schools	18	20	30	11	79

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

		25th	Median	75th	Mean	Number of Faculty
Chair	All Schools	190,000	228,000	255,000	230,900	79
	Medical Public	189,000	222,000	251,000	217,900	52
	Medical Private	208,000	246,000	312,000	256,000	27
Professor	All Schools	117,000	138,000	168,000	146,700	623
	Medical Public	118,000	134,000	163,000	144,400	446
	Medical Private	117,000	150,000	174,000	152,500	177
Associate Professor	All Schools	86,000	95,000	107,000	96,500	350
	Medical Public	86,000	96,000	109,000	97,000	229
	Medical Private	86,000	94,000	104,000	95,700	121
Assistant Professor	All Schools	61,000	77,000	89,000	76,300	423
	Medical Public	60,000	78,000	89,000	76,300	281
	Medical Private	61,000	75,000	90,000	76,300	142
Instructor	All Schools	44,000	49,000	57,000	51,400	73
	Medical Public	44,000	48,000	57,000	50,400	52
	Medical Private	46,000	51,000	66,000	54,100	21

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

2006-2007		2005-2006		2004-2005		% Change 2005-2006 to 2006-2007	
Mean	Median	Mean	Median	Mean	Median	Mean	Median
112,800	104,000	109,800	100,000	104,900	96,000	2.7	4

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	212,000	203,000	175,000	216,000
	Median	236,000	228,000	199,000	250,000
	75th	283,000	263,000	253,000	277,000
	Mean	248,400	234,400	213,800	242,600
	Total Faculty	18	20	30	11
Professor	25th	124,000	117,000	110,000	125,000
	Median	148,000	136,000	126,000	145,000
	75th	171,000	171,000	155,000	169,000
	Mean	154,100	146,000	136,200	157,200
	Total Faculty	165	164	198	96
Associate Professor	25th	87,000	85,000	82,000	89,000
	Median	97,000	94,000	95,000	101,000
	75th	110,000	101,000	107,000	113,000
	Mean	98,500	94,600	95,800	101,000
	Total Faculty	100	103	125	22
Assistant Professor	25th	64,000	58,000	60,000	68,000
	Median	82,000	74,000	75,000	83,000
	75th	92,000	83,000	85,000	97,000
	Mean	81,000	71,200	74,200	83,100
	Total Faculty	120	122	133	48
Instructor	25th	48,000	48,000	43,000	
	Median	54,000	50,000	48,000	
	75th	68,000	55,000	50,000	
	Mean	56,600	53,000	48,300	
	Total Faculty	19	9	38	3