



# The Physiologist

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## Association of Chairs of Departments of Physiology 2008 Survey Results

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The Association of Chairs of Departments of Physiology annual survey was emailed to 186 physiology departments throughout the US, Canada, Mexico, and Puerto Rico. A total of 47 surveys were returned, for a response rate of 25%. This rate is much lower than that of the previous years' surveys (39%). Of the 51 surveys returned, there were 15 private and 36 public 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 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. ❖

*(continued on page 71)*

## Table 1. Faculty Information

### Faculty Summary (n=900)

	Male	Female	Total
Asian/Pacific Islander	95	31	126
Black (not Hispanic)	6	5	11
Hispanic	42	10	52
White (not Hispanic)	531	149	680
Foreign National	21	10	31
<b>Total</b>	<b>695</b>	<b>205</b>	<b>900</b>

### Medical Physiology Course Type

	Yes	No	Total Responded
Integrated Disciplines	30	15	45
Traditional	27	18	45
Within Traditional	28	2	30

### Tenure Status in each department by degree

	Tenured	Not Tenured	Not Eligible	Total
MD	2	0	1	3
PhD	139	3	105	247
2 Doctorates	7	0	3	10
Other	1	0	4	5
<b>Total</b>	<b>149</b>	<b>3</b>	<b>113</b>	<b>265</b>

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

	Student Type	Average (hours)	Number (inst.)
<b>Lab Hours</b>	Graduate	223	29
	Medical	127	30
	Other	45	14
<b>Lectures</b>	Graduate	232	50
	Medical	1,017	49
	Other	76	34
<b>Small Group</b>	Graduate	38	31
	Medical	133	40
	Other	51	17

### Teaching Interactions

MD/DO	46
DDS	20
DVM	4
Allied Health	29
Pharmacy	16
Other Biomedical	33
Life Science	25
Bioengineering	22
Other	17

## Table 2. Student/Trainee Information

### Student/Trainee Summary

<i>US citizen / resident aliens</i>			
Predoctoral male	343	Postdoctoral male	130
Predoctoral female	403	Postdoctoral female	107
<i>Foreign</i>			
Predoctoral male	163	Postdoctoral male	258
Predoctoral female	172	Postdoctoral female	148

### Ethnicity of each pre- and postdoctoral student/trainee

	Pre-doctoral		Postdoctoral	
	Male	Female	Male	Female
Native American	15	5	0	1
Asian/Pacific Islander	20	32	24	22
Black (not Hispanic)	14	32	4	5
Hispanic	23	39	8	6
White (not Hispanic)	271	295	94	73

### US Citizen/Resident alien postdoctoral trainee completions:

	Male	Female
Native American	1	1
Asian/Pacific Islander	6	8
Black (not Hispanic)	3	4
Hispanic	3	1
White (not Hispanic)	59	67
<b>Total</b>	<b>72</b>	<b>81</b>

### Average Annual Stipend (US \$)

	Average	Number
Postdoctoral	\$46,393.23	47
Pre-doctoral	\$22,841.12	47

### Predoctoral Trainee Completions Trainees completing doctoral work during year ending 6/30/2008.

	Total
Female	105
Male	101
<b>Total</b>	<b>206</b>

### Foreign National predoctoral trainee completions:

	Male	Female
Asian/Pacific Islander	16	16
Central/South American	1	2
European/Canadian, etc.	7	7
Middle Eastern	4	0
<b>Total</b>	<b>28</b>	<b>25</b>

**Table 2. Student/Trainee Information (continued)**

	<u>Number of Foreign Pre- &amp; Postdoctoral Students/Trainees</u>					<u>Number of Foreign Pre- &amp; Postdoctoral trainees whose primary source of support is:</u>		
	Predoctoral		Postdoctoral			Pre-doctoral	Postdoctoral	
	Male	Female	Male	Female				
African	6	5	4	1	Institutional	155	33	
Asian/Pacific Islander	86	107	165	86	Research Grants	191	372	
Central/South American	13	9	15	10	Private Foundations	6	15	
European/Canadian, etc.	31	33	57	36	Home (foreign) Gov.	10	11	
Middle Eastern	20	14	12	9	Other	10	4	
Other	7	4	5	6	<b>Total</b>	<b>372</b>	<b>435</b>	
<b>Total</b>	<b>163</b>	<b>172</b>	<b>258</b>	<b>148</b>				

**Table 3. Institution Summary**

**Type of Institution**

Private 15  
Public 36  
**Total 51**

**Space Controlled by Department (n=73)**

	<b>Average</b>
Research Space	18,260
Administrative Space	3,093
Teaching Space	2,450
Other Space:	2,542
<b>Total Space</b>	<b>26,345</b>

**Table 4. Institutional Financial Information**

**Budget by Institution**

	<b>All Institutions</b>	<b>No.</b>	<b>Private Medical</b>	<b>No.</b>	<b>Public Medical</b>	<b>No.</b>	<b>Nonmedical</b>	<b>No.</b>
Institutional (Hard money, e.g. operating costs, state allocations)	\$2,573,744	47	\$2,359,212	10	\$2,947,654	27	\$2,414,365	10
Outside Research Grants and Contracts (direct costs only)	4,036,541	46	4,102,941	10	4,244,263	27	3,762,420	9
Training Grants (direct costs only)	240,267	26	324,654	6	256,299	14	139,849	6
Endowments	333,277	31	329,061	4	373,891	21	296,878	6
Indirect Cost Recovery (amount returned to your department)	236,913	36	316,208	4	210,649	24	183,882	8
Other Budget Support (identify)	439,401	35	644,769	3	319,210	24	354,226	8
<b>Average Departmental Budget</b>	<b>7,860,143</b>		<b>8,076,843</b>		<b>8,351,965</b>		<b>7,151,619</b>	

**Financial Information**

Current fringe benefit rate most frequently used for Primary faculty	27.06 (n=51)
Federally negotiated indirect cost rate for FY 08-09 off campus	25.74 (n=39)
Federally negotiated indirect cost rate for FY 08-09 on campus	50.50 (n=50)
Percentage of allocated salary dollars directly returned to your department	74.53 (n=32)
Percentage of indirect costs returned to your department	18.44 (n=36)
Percentage of total faculty salaries derived from research grants (does not include fringe benefits costs)	34.98 (n=48)

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	23,006,180	2	18,650,780	1	1,434,675	9	24,680	1	756	13
2	22,606,617	1	21,853,063	2	753,554	1	43,512	2	502	29
3	15,240,012	3	10,767,467	6	358,916	13	23,039	3	467	30
4	14,072,936	5	9,043,448	5	452,172	4	32,851	15	275	20
5	13,503,404	4	10,293,836	3	605,520	3	36,000	14	286	17
6	12,087,917	6	8,516,536	4	500,973	10	24,392	8	349	17
7	10,996,974	11	5,522,155	27	190,419	32	14,700	6	376	29
8	10,209,433	14	5,140,777	13	285,599	27	16,726	11	307	18
9	9,930,181	10	5,574,323	29	185,811	16	22,768	17	245	30
10	9,517,766	13	5,263,804	7	350,920	14	22,955	19	229	15
11	9,486,907	7	6,064,160	25	202,139	5	30,196	27	201	30
12	9,343,946	8	5,827,446	10	306,708	2	41,083	39	142	19
13	9,188,116	9	5,617,606	15	244,244	8	25,799	22	218	23
14	8,975,012	12	5,427,625	18	217,105	11	24,166	20	225	25
15	8,738,520	16	4,768,824	32	176,623	15	22,934	25	208	27
16	8,172,811	27	3,149,711	33	165,774	17	20,812	35	151	19
17	7,640,846	17	4,495,197	9	321,086	28	16,401	16	274	14
18	7,490,780	15	5,134,052	16	233,366	7	27,500	29	187	22
19	7,300,942	32	2,920,298	40	139,062	23	18,378	32	159	21
20	7,208,564	21	3,880,311	23	204,227	12	23,731	31	164	19
21	7,115,128	18	4,366,261	11	291,084	44	10,358	5	422	15
22	6,942,904	22	3,752,712	28	187,636	45	8,385	4	448	20
23	6,663,871	29	3,075,765	35	161,882	20	20,104	34	153	19
24	6,066,489	19	4,291,482	12	286,099	35	13,790	10	311	15
25	6,058,086	28	3,149,480	20	209,965	22	19,848	33	159	15
26	5,929,501	31	2,964,527	39	141,168	19	20,258	38	146	21
27	5,579,258	30	2,981,908	26	198,794	21	20,000	36	149	15
28	5,542,635	25	3,201,470	38	145,521	36	13,746	18	233	22
29	5,480,624	37	2,123,410	37	151,672	43	10,486	26	202	14
30	5,381,522	23	3,476,346	17	217,272	26	17,535	28	198	16
31	5,047,610	26	3,186,510	36	159,326	6	28,664	44	111	20
32	4,992,484	24	3,324,087	14	277,007	42	11,384	13	292	12
33	4,826,698	34	2,600,000	19	216,667	46	6,947	7	374	12
34	4,564,532	33	2,646,495	24	203,577	39	12,500	23	212	13
35	4,502,713	20	3,923,718	22	206,511	25	17,828	21	220	19
36	4,467,725	39	1,948,544	44	97,427	29	16,014	43	122	20
37	4,211,645	41	1,790,655	41	111,916	33	13,938	41	128	16
38	4,192,553	40	1,807,301	47	75,304	47	6,165	12	293	24
39	4,179,021	35	2,306,375	31	177,413	37	13,391	30	172	13
40	3,887,136	45	1,540,348	42	110,025	31	14,774	47	104	14
41	3,886,692	47	1,237,918	46	95,224	41	12,054	48	103	13
42	3,449,851	36	2,303,625	34	164,545	30	15,672	37	147	14
43	3,093,092	44	1,620,823	8	324,165	48	5,095	9	318	5
44	2,972,428	49	638,650	50	53,221	18	20,269	51	32	12
45	2,766,500	46	1,453,734	30	181,717	34	13,895	46	105	8
46	2,334,899	42	1,656,687	21	207,086	40	12,470	40	133	8
47	2,095,238	38	2,000,000	45	95,238	24	18,000	45	111	21
48	1,067,020	48	960,318	43	106,702	50	4,570	24	210	9
49	1,020,417	51	150,000	51	25,000	51	2,900	49	52	6
50	966,234	50	154,758	49	25,000	49	4,613	50	36	5
51	557,081	43	1,631,095	48	65,244	38	12,967	42	126	25

## 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 versus those in physiology departments. ❖

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

		Northeast	Midwest	South	West	TOTAL
<b>All</b>	<b>Private Medical</b>	23	11	12	3	49
	<b>Public Medical</b>	12	19	34	13	78
<b>Physiology</b>	<b>All Medical Schools</b>	19	19	23	11	72

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

		25th	Median	75th	Mean	Number of Faculty
<b>Chair</b>	All Schools	203,000	240,000	278,000	242,700	72
	Medical Public	201,000	234,000	267,000	231,300	47
	Medical Private	214,000	258,000	304,000	264,100	25
<b>Professor</b>	All Schools	123,000	146,000	173,000	153,300	616
	Medical Public	123,000	144,000	172,000	152,200	439
	Medical Private	120,000	151,000	178,000	156,100	177
<b>Associate Professor</b>	All Schools	90,000	100,000	113,000	102,400	361
	Medical Public	90,000	101,000	115,000	102,800	234
	Medical Private	86,000	99,000	111,000	101,700	127
<b>Assistant Professor</b>	All Schools	65,000	81,000	93,000	80,500	384
	Medical Public	64,000	81,000	92,000	79,800	240
	Medical Private	65,000	83,000	93,000	81,700	144
<b>Instructor</b>	All Schools	46,000	50,000	56,000	52,500	77
	Medical Public	47,000	50,000	55,000	51,500	49
	Medical Private	46,000	51,000	63,000	54,200	28

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

2007-2008		2006-2007		2005-2006		% Change 2006-2007 to 2007-2008	
Mean	Median	Mean	Median	Mean	Median	Mean	Median
119,300	110,000	112,800	104,000	109,800	100,000	5.8	5.8

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
<b>Chair</b>	25th	220,000	206,000	175,000	201,000
	Median	242,000	240,000	226,000	264,000
	75th	295,000	278,000	263,000	289,000
	Mean	260,400	248,000	221,500	247,400
	Total Faculty	19	19	23	11
<b>Professor</b>	25th	130,000	123,000	113,000	136,000
	Median	155,000	147,000	135,000	148,000
	75th	177,000	178,000	166,000	177,000
	Mean	158,200	152,800	144,300	166,700
	Total Faculty	146	168	208	94
<b>Associate Professor</b>	25th	92,000	86,000	89,000	92,000
	Median	103,000	95,000	100,000	108,000
	75th	117,000	106,000	111,000	119,000
	Mean	106,100	98,500	101,600	106,500
	Total Faculty	101	100	128	32
<b>Assistant Professor</b>	25th	65,000	63,000	63,000	74,000
	Median	86,000	78,000	78,000	93,000
	75th	96,000	89,000	89,000	104,000
	Mean	83,300	76,100	77,700	91,500
	Total Faculty	108	108	121	47
<b>Instructor</b>	25th	49,000	39,000	46,000	45,000
	Median	54,000	51,000	49,000	50,000
	75th	59,000	59,000	51,000	58,000
	Mean	56,000	53,700	49,100	52,800
	Total Faculty	23	15	30	9