

## Association of Chairs of Departments of Physiology 2010 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 28%. This rate is higher than last year's (25%) but still lower than that of the previous years' surveys (39%). Of the 53 surveys returned, there were 12 private and 41 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 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 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. New for this year is the mean number of faculty in those 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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### Table 1. Faculty Information

#### Faculty Summary (n=866)

	Male	Female	Total
Asian/Pacific Islander	79	34	113
Black (not Hispanic)	4	3	7
Hispanic	39	11	50
White (not Hispanic)	491	158	649
Foreign National	32	15	47
<b>Total</b>	<b>645</b>	<b>221</b>	<b>866</b>

#### Medical Physiology Course Type

	Yes	No	Total Responded
Integrated Disciplines	29	15	44
Traditional	31	16	47
Within Traditional	25	21	46

#### Tenure Status in each department by degree

	Tenured	Not Tenured	Not Eligible	Total
MD	10	0	7	17
PhD	527	4	247	778
2 Doctorates	27	0	12	39
Other	7	0	0	7
<b>Total</b>	<b>571</b>	<b>4</b>	<b>266</b>	<b>841</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	310	24
	Medical	133	27
	Other	56	9
<b>Lectures</b>	Graduate	252	44
	Medical	1,072	47
	Other	89	28
<b>Small Group</b>	Graduate	47	27
	Medical	127	42
	Other	94	13

#### Teaching Interactions

MD/DO	46
DDS	17
DVM	4
Allied Health	25
Pharmacy	10
Other Biomedical	30
Life Science	23
Bioengineering	20
Other	20

### Table 2. Student/Trainee Information

#### Student/Trainee Summary

<i>US citizen / resident aliens</i>			
Predoctoral male	253	Postdoctoral male	118
Predoctoral female	277	Postdoctoral female	112
<i>Foreign</i>			
Predoctoral male	120	Postdoctoral male	187
Predoctoral female	145	Postdoctoral female	149

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

	Pre-doctoral		Postdoctoral	
	Male	Female	Male	Female
Native American	8	3	1	0
Asian/Pacific Islander	17	36	19	34
Black (not Hispanic)	11	22	7	6
Hispanic	13	24	6	8
White (not Hispanic)	204	192	85	64

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

	Male	Female
Native American	2	0
Asian/Pacific Islander	9	9
Black (not Hispanic)	3	2
Hispanic	2	4
White (not Hispanic)	53	49
<b>Total</b>	<b>69</b>	<b>64</b>

#### Average Annual Stipend (US \$)

	Average	Number
Postdoctoral	\$39,452	45
Pre-doctoral	\$23,830	44

#### Predoctoral Trainee Completions Trainees completing doctoral work during year ending 6/30/2010.

<b>Total</b>	
Female	90
Male	99
<b>Total</b>	<b>189</b>

#### Foreign National predoctoral trainee completions:

	Male	Female
African	1	0
Asian/Pacific Islander	17	18
Central/South American	1	3
European/Canadian, etc.	8	3
Middle Eastern	3	2
<b>Total</b>	<b>30</b>	<b>26</b>

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

	<b>Number of Foreign Pre- &amp; Postdoctoral Students/Trainees</b>					<b>Number of Foreign Pre- &amp; Postdoctoral trainees whose primary source of support is:</b>		
	<b>Predocctoral</b>		<b>Postdoctoral</b>			<b>Pre-doctoral</b>		<b>Postdoctoral</b>
	<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>				
African	6	2	1	0				
Asian/Pacific Islander	69	85	104	74	Institutional	110	15	
Central/South American	7	11	15	11	Research Grants	214	299	
European/Canadian, etc.	19	26	40	42	Private Foundations	9	12	
Middle Eastern	15	14	18	12	Home (foreign) Gov.	15	9	
Other	4	7	9	10	Other	27	10	
<b>Total</b>	<b>120</b>	<b>145</b>	<b>187</b>	<b>149</b>	<b>Total</b>	<b>375</b>	<b>345</b>	

**Table 3. Institution Summary**

**Type of Institution**

Private	14
Public	33
<b>Total</b>	<b>47</b>

**Space Controlled by Department**

**Average**

Research Space	18,248
Administrative Space	3,257
Teaching Space	2,241
Other Space:	3,041
<b>Total Space</b>	<b>26,786</b>

**Table 4. Institutional Financial Information**

**Budget by Institution**

	<b>All Institutions</b>	<b>No. Institutions (Mean)</b>	<b>Private Medical</b>	<b>No. Institutions (Mean)</b>	<b>Public Medical</b>	<b>No. Institutions (Mean)</b>	<b>Non-medical</b>	<b>No. Institutions (Mean)</b>
Institutional (Hard money, e.g. operating costs, state allocations)	\$ 2,976,525	47 (18)	\$2,778,689	12 (16)	\$3,660,953	25 (19)	\$2,489,932	10 (19)
Outside Research Grants and Contracts (direct costs only)	6,923,126	43 (19)	9,282,397	9 (19)	7,865,767	25 (19)	3,621,214	9 (19)
Training Grants (direct costs only)	445,458	23 (19)	450,833	5 (21)	717,372	13 (19)	168,170	5 (17)
Endowments	460,534	27 (19)	615,462	4 (15)	668,091	17 (20)	98,048	6 (22)
Indirect Cost Recovery (amount returned to your department)	668,060	35 (18)	1,503,034	2 (18)	375,708	24 (19)	125,438	9 (18)
Other Budget Support (identify)	684,421	43 (20)	1,084,597	9 (18)	830,559	27 (18)	137,209	7 (22)
Average Departmental Budget	12,173,159		12,365,014		13,582,568		6,407,968	

**Financial Information**

Current fringe benefit rate most frequently used for Primary faculty	28.52 (n=48)
Federally negotiated indirect cost rate for FY 10-11 off campus	27.33 (n=39)
Federally negotiated indirect cost rate for FY 10-11 on campus	50.94 (n=48)
Percentage of allocated salary dollars directly returned to your department	70.21 (n=34)
Percentage of indirect costs returned to your department	20.71 (n=38)
Percentage of total faculty salaries derived from research grants (does not include fringe benefits costs)	37.72 (n=46)

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	\$24,024,997	1	\$15,807,375	1	\$831,967	4	34,439	2	\$459	19
2	15,609,962	3	10,498,471	4	552,551	1	39,783	20	264	19
3	15,470,650	2	11,142,565	6	371,419	2	36,732	11	303	30
4	14,076,706	4	9,220,820	2	658,630	5	34,056	18	271	14
5	13,648,121	6	6,606,996	24	220,233	24	17,737	7	372	30
6	12,766,870	5	7,877,338	11	302,975	14	22,757	8	346	26
7	10,634,038	9	6,102,238	23	234,701	12	24,166	22	253	26
8	9,948,448	7	6,449,378	10	307,113	9	27,086	24	238	21
9	9,458,298	8	6,401,045	5	457,218	15	21,847	13	293	14
10	9,147,170	14	5,165,883	22	245,994	21	18,934	17	273	21
11	9,067,523	13	5,172,533	14	287,363	13	22,820	25	227	18
12	8,722,553	17	4,740,570	32	182,330	16	21,422	26	221	26
13	8,605,114	15	5,042,513	21	252,126	23	18,071	15	279	20
14	8,553,860	10	5,867,509	20	255,109	10	26,901	27	218	23
15	7,948,432	12	5,279,796	8	329,987	7	32,239	35	164	16
16	7,898,536	32	3,168,726	38	121,874	37	11,903	19	266	26
17	7,823,984	26	3,670,345	36	152,931	3	35,049	42	105	24
18	7,457,167	18	4,722,222	12	295,139	41	10,358	3	456	16
19	7,392,497	25	3,681,658	26	193,771	20	19,040	31	193	19
20	7,327,562	21	4,201,161	18	262,573	31	13,500	9	311	16
21	7,282,421	22	4,084,543	25	214,976	40	10,486	6	390	19
22	7,188,323	24	3,867,727	31	184,177	22	18,799	29	206	21
23	6,894,986	11	5,537,566	29	184,586	6	33,293	34	166	30
24	6,737,156	35	2,763,354	30	184,224	17	20,213	37	137	15
25	6,648,240	16	4,773,994	7	341,000	38	11,784	5	405	14
26	6,420,715	29	3,558,657	16	273,743	26	16,401	28	217	13
27	6,392,514	19	4,415,058	15	275,941	25	17,535	23	252	16
28	6,243,395	37	2,694,760	35	179,651	18	20,000	38	135	15
29	5,798,421	34	2,935,983	39	117,439	30	14,598	30	201	25
30	5,746,390	20	4,300,000	9	307,143	28	15,672	16	274	14
31	5,726,995	33	3,144,486	28	184,970	42	10,168	10	309	17
32	5,575,771	23	4,047,845	13	289,132	43	9,384	4	431	14
33	5,423,188	36	2,701,986	34	180,132	11	25,288	41	107	15
34	5,408,261	30	3,491,840	17	268,603	32	13,391	21	261	13
35	5,399,529	27	3,650,791	19	260,771	33	12,500	14	292	14
36	5,160,767	31	3,388,338	3	564,723	46	5,528	1	613	6
37	5,047,610	46	0	46	0	8	28,664	46	0	20
38	4,819,170	38	2,536,756	33	181,197	29	14,774	33	172	14
39	4,502,713	28	3,601,535	27	189,554	19	19,971	32	180	19
40	4,322,585	44	305,126	44	33,903	35	12,470	44	24	9
41	4,185,402	39	1,860,191	42	88,581	45	6,165	12	302	21
42	3,356,662	40	1,787,742	37	148,978	34	12,484	36	143	12
43	3,291,923	41	1,302,229	41	93,016	39	11,329	40	115	14
44	3,071,790	43	918,390	43	54,023	27	16,292	43	56	17
45	2,124,839	42	960,318	40	96,032	44	8,289	39	116	10
46	901,099	45	87,000	45	17,400	47	4,613	45	19	5
47	878,734	47	0	47	0	48	2,900	48	0	8
48	425,000	48	0	48	0	36	12,000	47	0	5
49	0	49	0	49	0	49	300	49	0	6

## 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 Ph.D. faculty are given in Table 2. Table 3 shows the changes in salary that have occurred over the past 3 years. The summary statistics for separate regions of the country are given in Table 4.

Table 5 shows the salary comparison between Ph.D. 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
<b>All</b>	<b>Private Medical</b>	26	11	14	3	54
	<b>Public Medical</b>	11	21	34	13	79
<b>Physiology</b>	<b>All Medical Schools</b>	15	19	29	11	74

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

		25th	Median	75th	Mean	Number of Faculty
<b>Chair</b>	All Schools	218,000	253,000	291,000	255,300	70
	Medical Public	217,000	246,000	277,000	243,800	44
	Medical Private	225,000	270,000	307,000	274,800	26
<b>Professor</b>	All Schools	126,000	151,000	181,000	157,800	604
	Medical Public	127,000	149,000	174,000	155,800	417
	Medical Private	123,000	160,000	189,000	162,500	187
<b>Associate Professor</b>	All Schools	94,000	104,000	117,000	105,800	335
	Medical Public	94,000	104,000	117,000	105,500	215
	Medical Private	92,000	104,000	118,000	106,500	120
<b>Assistant Professor</b>	All Schools	68,000	83,000	94,000	82,000	405
	Medical Public	68,000	82,000	92,000	81,000	254
	Medical Private	69,000	85,000	95,000	83,500	151
<b>Instructor</b>	All Schools	44,000	50,000	55,000	50,700	84
	Medical Public	44,000	48,000	52,000	49,700	45
	Medical Private	40,000	51,000	58,000	51,900	39

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

2009-2010		2008-2009		2007-2008		% Change 2008-2009 to 2009-2010	
Mean	Median	Mean	Median	Mean	Median	Mean	Median
122,000	112,000	122,100	111,000	119,300	110,000	-0.1	0.9

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

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

		<b>Northeast</b>	<b>Midwest</b>	<b>South</b>	<b>West</b>
<b>Chair</b>	25th	225,000	238,000	189,000	226,000
	Median	261,000	253,000	242,000	269,000
	75th	314,000	303,000	273,000	298,000
	Mean	276,700	271,400	228,200	259,600
	Total Faculty	15	19	25	11
<b>Professor</b>	25th	140,000	126,000	115,000	140,000
	Median	162,000	150,000	141,000	164,000
	75th	187,000	181,000	169,000	195,000
	Mean	163,300	156,300	148,100	175,100
	Total Faculty	128	178	206	92
<b>Associate Professor</b>	25th	100,000	91,000	88,000	98,000
	Median	111,000	98,000	105,000	108,000
	75th	126,000	113,000	115,000	122,000
	Mean	115,200	100,500	102,900	110,300
	Total Faculty	81	93	131	30
<b>Assistant Professor</b>	25th	75,000	69,000	64,000	81,000
	Median	90,000	81,000	78,000	93,000
	75th	101,000	88,000	88,000	104,000
	Mean	88,900	79,500	76,900	92,700
	Total Faculty	88	130	143	44
<b>Instructor</b>	25th	46,000	39,000	44,000	45,000
	Median	54,000	43,000	50,000	50,000
	75th	58,000	54,000	51,000	73,000
	Mean	54,400	48,600	49,600	57,900
	Total Faculty	18	20	39	9

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

		<b>All Basic Science Depts.</b>	<b>Physiology</b>
<b>Chair</b>	25th	206,000	218,000
	Median	247,000	253,000
	75th	296,000	291,000
	Mean	249,800	255,300
	Total Faculty	529	70
<b>Professor</b>	25th	129,000	126,000
	Median	156,000	151,000
	75th	190,000	181,000
	Mean	164,900	157,800
	Total Faculty	4,282	604
<b>Associate Professor</b>	25th	94,000	94,000
	Median	107,000	104,000
	75th	124,000	117,000
	Mean	110,400	105,800
	Total Faculty	2,992	335
<b>Assistant Professor</b>	25th	71,000	68,000
	Median	85,000	83,000
	75th	97,000	94,000
	Mean	85,000	82,000
	Total Faculty	3,928	405
<b>Instructor</b>	25th	47,000	44,000
	Median	53,000	50,000
	75th	64,000	55,000
	Mean	57,400	50,700
	Total Faculty	611	84