



The Physiologist

Association of Chairs of Departments of Physiology 2011 Survey Results

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INSIDE

AAMC Medical School Faculty Compensation Survey
p. 78

Second Meeting of the Puerto Rico Physiological Society
p. 80

APS Supports 24 Undergraduate Researchers
p. 87

Budget Control Measure Threatens Research
p. 93

Mentoring Forum: Insights Into A Successful Dual Scientific Career and Partnership
p. 94

Philip Clifford Receives NPA's 2012 Distinguished Service Award
p. 96

The Association of Chairs of Departments of Physiology annual survey was sent electronically to 186 physiology departments throughout the US, Canada, Mexico, and Puerto Rico. A total of 39 surveys were returned, for a response rate of 21%. This rate is lower than in 2010 (28%) and 2011 (39%). Of the 39 surveys returned, there were eight private and 31 public medical schools.

The data provide the reader with general trends of faculty demographics and distribution, 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. AAMC salary data is more generally used, so the ACDP Council decided to no longer collect or report this data. Data are still collected on tenure status, gender, and ethnicity of faculty members (Table 1). Table 1 also includes information on the aver-

age number of teaching contact hours for faculty and on the type of medical physiology course being taught.

Table 2 provides student/trainee information, including ethnicity for predoctoral and postdoctoral categories, as well as predoctoral trainee completions, stipends provided, and type of support.

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. ❖

(continued on page 75)

Table 1. Faculty Information

Faculty Summary (n=866)

	Male	Female	Total
Asian/Pacific Islander	71	36	107
Black (not Hispanic)	5	4	9
Hispanic	25	8	33
White (not Hispanic)	367	141	508
Foreign National	21	13	34
Total	489	202	691

Medical Physiology Course Type

	Yes	No	Total Responded
Integrated Disciplines	25	12	37
Traditional	23	15	38
Within Traditional	23	15	38

Tenure Status in each department by degree

	Tenured	Not Tenured	Not Eligible	Total
MD	12	0	7	19
PhD	428	2	189	619
2 Doctorates	30	0	6	36
Other	9	0	0	9
Total	479	2	202	683

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	370	18
	Medical	207	18
	Other	50	10
Lectures	Graduate	254	39
	Medical	1,321	38
	Other	115	23
Small Group	Graduate	43	21
	Medical	137	35
	Other	121	10

Teaching Interactions

MD/DO	37
DDS	12
DVM	2
Allied Health	23
Pharmacy	9
Other Biomedical	25
Life Science	19
Bioengineering	13
Other	15

Table 2. Student/Trainee Information

Student/Trainee Summary

US citizen / resident aliens

Predoctoral male	199	Postdoctoral male	98
Predoctoral female	190	Postdoctoral female	85

Foreign

Predoctoral male	89	Postdoctoral male	132
Predoctoral female	94	Postdoctoral female	108

Ethnicity of each pre- and postdoctoral student/trainee

	Pre-doctoral		Postdoctoral	
	Male	Female	Male	Female
Native American	4	7	2	2
Asian/Pacific Islander	18	26	18	18
Black (not Hispanic)	6	16	5	7
Hispanic	5	11	9	6
White (not Hispanic)	166	130	64	52

US Citizen/Resident alien postdoctoral trainee completions:

	Male	Female
Native American	0	0
Asian/Pacific Islander	6	7
Black (not Hispanic)	1	3
Hispanic	0	1
White (not Hispanic)	20	34
Total	27	45

Average Annual Stipend (US \$)

	Average	Number
Postdoctoral	\$39,806	38
Pre-doctoral	\$24,305	38

Predoctoral Trainee Completions Trainees completing doctoral work during year ending 6/30/2011.

	Total
Female	58
Male	41
Total	99

Foreign National predoctoral trainee completions:

	Male	Female
African	0	2
Asian/Pacific Islander	9	8
Central/South American	1	0
European/Canadian, etc.	3	1
Middle Eastern	1	2
Total	14	13

Table 2. Student/Trainee Information (continued)

	Predoctoral		Postdoctoral		Number of Foreign Pre- & Postdoctoral trainees whose primary source of support is:
	Male	Female	Male	Female	
African	3	2	1	0	
Asian/Pacific Islander	59	71	86	66	
Central/South American	5	5	8	7	
European/Canadian, etc.	7	9	18	20	
Middle Eastern	15	7	17	8	
Other	0	0	2	7	
Total	89	94	132	108	

	Pre-doctoral	Postdoctoral
Institutional	64	16
Research Grants	187	265
Private Foundations	5	17
Home (foreign) Gov.	1	2
Other	13	3
Total	270	303

Table 3. Institution Summary

Type of Institution	(n=39)
Private	8
Public	31
Total	39

Space Controlled by Department

	Average
Research Space	17,292
Administrative Space	3,606
Teaching Space	1,602
Other Space:	2,817
Total Space	25,316

Table 4. Institutional Financial Information

Budget by Institution

	All Institutions	No. Institutions	Private Medical	No. Institutions	Public Medical	No. Institutions	Non-medical	No. Institutions
Institutional (Hard money, e.g. operating costs, state allocations)	\$ 3,464,360	39	\$3,662,675	9	\$3,816,051	25	\$2,914,354	5
Outside Research Grants and Contracts (direct costs only)	5,650,590	38	5,219,101	8	7,622,146	25	4,110,523	5
Training Grants (direct costs only)	311,052	19	203,478	4	589,203	12	140,476	3
Endowments	245,159	21	128,626	3	499,061	14	107,791	4
Indirect Cost Recovery (amount returned to your department)	528,818	30	1,078,178	3	316,914	23	191,363	4
Other Budget Support (identify)	524,885	35	466,234	8	928,874	27	179,546	4
Average Departmental Budget	11,232,618		9,414,658		12,634,631		7,494,880	

Financial Information

Current fringe benefit rate most frequently used for Primary faculty	29.80 (n=40)
Federally negotiated indirect cost rate for FY 11-12 off campus	26.25 (n=32)
Federally negotiated indirect cost rate for FY 11-12 on campus	49.40 (n=40)
Percentage of allocated salary dollars directly returned to your department	67.37 (n=30)
Percentage of indirect costs returned to your department	20.37 (n=30)
Percentage of total faculty salaries derived from research grants (does not include fringe benefits costs)	33.85 (n=39)

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	\$16,234,568	1	10,327,173	8	344,239	2	36,732	12	281	30
2	14,181,551	2	8,988,774	3	473,093	1	39,783	21	226	19
3	12,165,494	4	7,310,157	13	281,160	9	22,270	6	328	26
4	11,433,461	3	8,652,549	2	480,697	26	13,500	2	641	18
5	9,172,285	9	4,989,389	11	293,493	5	26,926	26	185	17
6	8,705,121	11	4,844,861	19	230,708	3	36,226	34	134	21
7	8,636,157	15	4,584,282	18	241,278	14	19,040	18	241	19
8	8,433,068	5	5,920,414	4	455,416	19	16,401	5	361	13
9	8,426,846	13	4,736,760	20	225,560	15	18,991	17	249	21
10	8,297,714	7	5,491,733	5	392,267	10	21,463	16	256	14
11	8,255,752	12	4,761,642	14	280,097	18	16,422	10	290	17
12	7,759,329	6	5,516,747	9	324,515	7	24,333	28	227	17
13	7,624,323	21	3,902,248	30	150,086	11	21,422	22	182	26
14	7,439,600	19	4,071,700	23	193,890	16	18,799	14	217	21
15	7,359,222	24	3,151,536	34	116,724	31	11,903	27	265	27
16	7,301,890	8	5,090,420	21	221,323	4	27,710	4	184	23
17	7,142,648	20	4,040,077	22	212,636	34	10,486	19	385	19
18	6,985,425	16	4,517,429	12	282,339	12	19,848	25	228	16
19	6,874,050	17	4,320,000	10	308,571	8	22,681	30	190	14
20	6,596,135	25	3,096,533	32	129,022	13	19,798	7	156	24
21	6,416,238	14	4,610,568	7	354,659	22	14,824	13	311	13
22	6,369,418	10	4,860,421	6	373,879	17	17,535	36	277	13
23	6,018,921	27	2,801,015	26	186,734	6	25,288	23	111	15
24	5,798,421	26	2,935,983	33	117,439	24	14,326	11	205	25
25	5,484,584	23	3,601,793	15	277,061	28	12,500	3	288	13
26	5,379,324	22	3,807,447	16	271,961	36	9,384	29	406	14
27	4,818,584	30	2,515,469	24	193,498	23	14,774	24	170	13
28	4,794,061	28	2,703,844	25	193,132	27	13,391	1	202	14
29	4,421,160	18	4,118,884	1	514,861	38	6,000	15	686	8
30	4,211,645	29	2,598,003	27	173,200	35	9,893	9	263	15
31	4,185,402	33	1,791,505	36	74,646	37	6,165	32	291	24
32	3,957,701	32	1,876,301	29	156,358	29	12,484	37	150	12
33	3,703,091	37	1,063,371	37	55,967	21	14,921	8	71	19
34	3,701,965	35	1,624,365	17	270,728	39	5,528	31	294	6
35	3,566,099	34	1,750,587	31	145,882	32	11,329	35	155	12
36	3,059,688	38	918,000	38	45,900	20	16,292	33	56	20
37	2,831,516	36	1,523,409	28	169,268	30	12,470	39	122	9
38	2,263,000	31	1,900,000	35	105,556	25	13,552	35	140	18
39	1,433,859	39	350,000	39	43,750	33	11,203	38	31	8

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 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
All	Private Medical	26	11	14	3	54
	Public Medical	11	21	34	13	79
Physiology	All Medical Schools	15	19	29	11	74

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

		25th	Median	75th	Mean	Number of Faculty
Chair	All Schools	235,000	265,000	307,000	270,700	70
	Medical Public	209,000	255,000	283,000	247,500	45
	Medical Private	245,000	307,000	378,000	312,500	25
Professor	All Schools	130,000	155,000	182,000	160,500	593
	Medical Public	130,000	153,000	179,000	159,700	401
	Medical Private	128,000	160,000	187,000	162,200	192
Associate Professor	All Schools	96,000	108,000	122,000	109,300	361
	Medical Public	95,000	107,000	120,000	107,500	229
	Medical Private	98,000	110,000	125,000	112,300	132
Assistant Professor	All Schools	68,000	84,000	93,000	82,800	425
	Medical Public	68,000	82,000	92,000	81,600	257
	Medical Private	69,000	85,000	96,000	84,800	168
Instructor	All Schools	43,000	50,000	56,000	51,500	89
	Medical Public	45,000	50,000	54,000	52,800	48
	Medical Private	40,000	45,000	59,000	49,900	41

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

2010-2011		2009-2010		2008-2009		% Change 2009-2010 to 2010-2011	
Mean	Median	Mean	Median	Mean	Median	Mean	Median
123,200	114,000	122,000	112,000	122,100	111,000	1.0	1.8

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
Chair	25th	232,000	242,000	192,000	247,000
	Median	296,000	265,000	250,000	269,000
	75th	328,000	326,000	293,000	291,000
	Mean	291,300	282,800	246,000	269,800
	Total Faculty	17	19	23	11
Professor	25th	141,000	131,000	120,000	140,000
	Median	167,000	153,000	144,000	161,000
	75th	189,000	182,000	171,000	196,000
	Mean	166,300	160,800	149,500	175,300
	Total Faculty	132	173	197	91
Associate Professor	25th	103,000	95,000	92,000	103,000
	Median	114,000	104,000	105,000	114,000
	75th	126,000	120,000	119,000	129,000
	Mean	113,100	107,300	106,500	116,100
	Total Faculty	94	102	133	32
Assistant Professor	25th	68,000	70,000	66,000	79,000
	Median	91,000	83,000	80,000	91,000
	75th	101,000	90,000	90,000	100,000
	Mean	89,600	80,800	78,100	90,100
	Total Faculty	99	135	149	42
Instructor	25th	46,000	38,000	45,000	43,000
	Median	59,000	40,000	50,000	50,000
	75th	66,000	45,000	54,000	52,000
	Mean	58,100	44,600	51,400	59,100
	Total Faculty	15	22	45	7

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

		All Basic Science Depts.	Physiology
Chair	25th	211,000	235,000
	Median	258,000	265,000
	75th	310,000	307,000
	Mean	264,700	270,700
	Total Faculty	539	70
Professor	25th	132,000	130,000
	Median	159,000	155,000
	75th	192,000	182,000
	Mean	168,000	160,500
	Total Faculty	4,2829	593
Associate Professor	25th	96,000	96,000
	Median	111,000	108,000
	75th	127,000	122,000
	Mean	112,900	109,300
	Total Faculty	3,170	361
Assistant Professor	25th	71,000	68,000
	Median	86,000	84,000
	75th	99,000	93,000
	Mean	86,300	82,800
	Total Faculty	4,002	425
Instructor	25th	48,000	43,000
	Median	54,000	50,000
	75th	64,000	56,000
	Mean	58,300	51,500
	Total Faculty	601	89