



The Physiologist

Association of Chairs of Departments of Physiology 2012 Survey Results

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The Association of Chairs of Departments of Physiology annual survey was sent electronically to 191 physiology departments throughout the US, Canada, Mexico, and Puerto Rico. A total of 42 surveys were returned, for a response rate of 22%. This rate is similar to previous years. Of the 42 surveys returned, there were 11 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 average 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.

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also includes information on the average number of teaching contact hours

(continued on page 119)

INSIDE

AAMC Medical School Faculty Compensation Survey
p. 122

166th APS Business Meeting
p. 124

Dempsey Receives Schmidt-Nielsen Distinguished Mentor and Scientist Award
p. 132

APS Council Holds Summer Meeting in Bethesda
p. 145

Mentoring 101: Training for the Future
p. 153

APS Suggests Way to Reduce Regulatory Burden
p. 155

Comparative Physiologist Jessica U. Meir Joins NASA Astronaut Class
p. 157

Table 1. Faculty Information

Faculty Summary (n=808)

	Male	Female	Total
Asian/Pacific Islander	95	39	134
Black (not Hispanic)	11	10	21
Hispanic	37	11	48
White (not Hispanic)	411	144	555
Foreign National	34	16	50
Total	588	220	808

Medical Physiology Course Type

	Yes	No	Total Responded
Integrated Disciplines	31	11	42
Traditional	31	12	43
Within Traditional	21	20	41

Tenure Status in each department by degree

	Tenured	Not Tenured	Not Eligible	Total
MD	15	0	9	24
PhD	451	1	283	735
2 Doctorates	36	1	11	48
Other	5	0	0	5
Total	507	2	303	812

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	359	23
	Medical	30	26
	Other	71	10
Lectures	Graduate	89	41
	Medical	55	42
	Other	96	24
Small Group	Graduate	34	22
	Medical	35	37
	Other	31	11

Teaching Interactions

MD/DO	42
DDS	17
DVM	4
Allied Health	23
Pharmacy	11
Other Biomedical	30
Life Science	22
Bioengineering	19
Other	15

Table 2. Student/Trainee Information

Student/Trainee Summary

<i>US citizen/resident aliens</i>			
Predoctoral male	207	Postdoctoral male	110
Predoctoral female	196	Postdoctoral female	86
<i>Foreign</i>			
Predoctoral male	80	Postdoctoral male	149
Predoctoral female	90	Postdoctoral female	110

Ethnicity of each pre- and postdoctoral student/trainee

	Pre-doctoral		Postdoctoral	
	Male	Female	Male	Female
Native American	1	0	0	0
Asian/Pacific Islander	15	29	12	19
Black (not Hispanic)	8	19	4	9
Hispanic	13	19	7	4
White (not Hispanic)	170	129	87	54

US Citizen/Resident alien postdoctoral trainee completions:

	Male	Female
Native American	1	0
Asian/Pacific Islander	6	7
Black (not Hispanic)	1	7
Hispanic	0	3
White (not Hispanic)	25	27
Total	33	44

Average Annual Stipend (US \$)

	Average	Number
Postdoctoral	\$40,824	39
Pre-doctoral	\$24,261	40

Predoctoral Trainee Completions Trainees completing doctoral work during year ending 6/30/2012.

Total	
Female	65
Male	62
Total	127

Foreign National predoctoral trainee completions:

	Male	Female
African	2	1
Asian/Pacific Islander	16	13
Central/South American	2	4
European/Canadian, etc.	2	1
Middle Eastern	7	1
Total	29	20

Table 2. Student/Trainee Information (continued)

	Predoctoral		Postdoctoral			Pre-doctoral		Postdoctoral	
	Male	Female	Male	Female		Institutional		Research Grants	
African	3	2	1	2					
Asian/Pacific Islander	52	59	99	57					
Central/South American	3	7	11	10					
European/Canadian, etc.	6	13	18	25					
Middle Eastern	15	9	16	6					
Other	1	4	0	10					
Total	80	94	145	110	Total	197	254		

Table 3. Institution Summary

Type of Institution	(n=42)	Space Controlled by Department	
		Average	
Private	11	Research Space	18,575
Public	31	Administrative Space	3,300
Total	42	Teaching Space	2,108
		Other Space:	3,269
		Total Space	27,253

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)	\$2,221,151	42	\$1,881,063	11	\$2,177,530	25	\$2,604,859	6
Outside Research Grants and Contracts (direct costs only)	4,058,738	42	3,758,631	11	4,333,324	25	4,084,259	6
Training Grants (direct costs only)	346,015	20	406,174	4	307,932	15	323,938	1
Endowments	308,946	26	221,215	4	611,457	17	94,168	5
Indirect Cost Recovery (amount returned to your department)	167,171	27	14,000	1	275,253	21	212,259	5
Other Budget Support (identify)	1,499,016	35	2,841,360	8	1,098,854	21	556,833	6
Average Departmental Budget	7,119,134		6,518,589		7,300,238		7,644,076	

Financial Information

Current fringe benefit rate most frequently used for Primary faculty	30.45 (n=44)
Federally negotiated indirect cost rate for FY 12-13 off campus	26.82 (n=38)
Federally negotiated indirect cost rate for FY 12-13 on campus	50.84 (n=44)
Percentage of allocated salary dollars directly returned to your department	72.93 (n=30)
Percentage of indirect costs returned to your department	22.50 (n=32)
Percentage of total faculty salaries derived from research grants (does not include fringe benefits costs)	34.45 (n=42)

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	\$23,659,053	1	\$14,964,488	2	\$ 680,204	5	36,041	3	\$415	22
2	17,761,566	2	11,103,846	7	370,128	4	36,732	9	302	30
3	11,905,886	4	7,255,178	5	381,851	2	39,104	27	186	19
4	11,516,495	5	7,190,094	10	287,604	14	20,530	5	350	25
5	10,305,243	12	5,265,482	27	181,568	11	24,166	20	218	29
6	10,238,535	6	6,360,768	3	489,290	6	34,468	29	185	13
7	9,473,065	3	8,065,455	8	336,061	1	40,900	23	197	24
8	8,686,532	9	5,535,372	21	205,014	15	20,058	11	276	27
9	8,640,509	17	4,347,698	18	228,826	9	26,926	34	161	19
10	8,604,157	13	5,121,090	22	204,844	27	13,932	4	368	25
11	8,573,209	29	3,179,086	29	167,320	39	10,486	8	303	19
12	8,489,672	10	5,323,913	28	177,464	33	12,729	2	418	30
13	8,426,846	11	5,319,383	17	231,278	17	19,147	10	278	23
14	8,359,049	8	5,695,669	4	406,834	23	16,401	6	347	14
15	8,293,212	7	6,305,292	12	274,143	8	27,510	18	229	23
16	8,098,620	23	3,423,059	31	163,003	3	37,289	39	92	21
17	7,944,542	26	3,366,952	24	198,056	20	16,975	22	198	17
18	7,848,063	18	4,221,112	33	150,754	13	21,422	24	197	28
19	7,439,600	16	4,397,194	25	191,182	19	18,799	16	234	23
20	7,415,767	15	4,578,294	16	240,963	18	19,040	14	240	19
21	7,013,376	24	3,413,106	20	227,540	22	16,569	21	206	15
22	6,917,695	30	3,107,925	14	258,994	24	15,924	25	195	12
23	6,873,688	14	4,807,520	1	1,602,507	7	30,000	35	160	3
24	6,832,587	31	2,984,897	23	198,993	10	25,288	38	118	15
25	6,775,598	19	3,912,066	9	326,006	12	21,463	30	182	12
26	6,129,917	22	3,785,814	13	270,415	16	19,848	26	191	14
27	5,947,797	33	2,256,448	36	118,760	28	13,922	33	162	19
28	5,947,468	27	3,274,665	34	130,987	26	14,492	19	226	25
29	5,864,508	34	2,198,607	38	81,430	35	11,903	28	185	27
30	5,803,687	25	3,398,818	11	283,235	32	12,994	13	262	12
31	5,666,020	20	3,890,984	15	243,187	21	16,905	17	230	16
32	5,179,841	21	3,811,252	6	381,125	37	11,236	7	339	10
33	4,961,131	32	2,816,638	26	187,776	44	3,395	1	830	15
34	4,794,061	28	3,199,040	19	228,503	31	13,391	15	239	14
35	4,445,683	35	2,075,996	35	129,750	34	12,484	32	166	16
36	4,417,195	36	2,031,901	32	156,300	25	14,774	37	138	13
37	4,305,630	42	150,000	42	7,500	38	10,526	42	14	20
38	4,036,077	38	1,664,729	39	72,380	40	6,165	12	270	23
39	3,779,450	39	1,124,982	40	70,311	30	13,500	40	83	16
40	3,772,065	37	1,971,977	30	164,331	36	11,329	31	174	12
41	3,382,954	41	692,889	41	40,758	29	13,583	41	51	17
42	2,124,839	40	741,345	37	82,372	41	5,283	36	140	9
43	909,627	43	58,000	43	7,250	42	5,064	43	11	8
44	844,649	44	23,000	44	5,750	43	4,613	44	5	4

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
All	Private Medical	26	11	13	3	53
	Public Medical	12	22	36	13	83
Physiology	All Medical Schools	18	17	24	8	67

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

		25th	Median	75th	Mean	Number of Faculty
Chair	All Schools	225,000	256,000	296,000	266,200	67
	Medical Public	216,000	245,000	277,000	246,500	44
	Medical Private	244,000	293,000	389,000	304,000	23
Professor	All Schools	133,000	156,000	183,000	161,500	540
	Medical Public	133,000	156,000	183,000	161,800	379
	Medical Private	132,000	158,000	184,000	160,700	161
Associate Professor	All Schools	95,000	108,000	124,000	110,900	309
	Medical Public	94,000	108,000	122,000	109,200	204
	Medical Private	98,000	110,000	129,000	114,000	105
Assistant Professor	All Schools	69,000	85,000	95,000	84,000	395
	Medical Public	68,000	83,000	93,000	81,600	265
	Medical Private	72,000	90,000	102,000	88,900	130
Instructor	All Schools	46,000	52,000	64,000	55,500	61
	Medical Public	46,000	50,000	60,000	54,100	44
	Medical Private	51,000	60,000	69,000	59,200	17

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

2011-2012		2010-2011		2009-2010		% Change 2009-2010 to 2010-2011	
Mean	Median	Mean	Median	Mean	Median	Mean	Median
124,300	115,000	123,200	114,000	122,100	112,000	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	230,000	224,000	200,000	261,000
	Median	248,000	255,000	250,000	283,000
	75th	311,000	303,000	285,000	299,000
	Mean	277,400	282,200	243,100	276,500
	Total Faculty	18	17	24	8
Professor	25th	143,000	131,000	124,000	144,000
	Median	165,000	152,000	148,000	164,000
	75th	186,000	181,000	176,000	204,000
	Mean	165,200	158,200	153,200	181,400
	Total Faculty	112	144	199	85
Associate Professor	25th	104,000	94,000	92,000	104,000
	Median	115,000	106,000	103,000	112,000
	75th	129,000	123,000	119,000	136,000
	Mean	117,400	110,500	105,000	117,800
	Total Faculty	73	94	112	30
Assistant Professor	25th	74,000	70,000	65,000	75,000
	Median	93,000	85,000	81,000	91,000
	75th	103,000	93,000	91,000	96,000
	Mean	90,400	85,400	78,800	87,600
	Total Faculty	79	117	157	42
Instructor	25th	52,000	48,000	46,000	44,000
	Median	62,000	61,000	51,000	47,000
	75th	66,000	74,000	61,000	54,000
	Mean	59,600	60,800	54,700	50,100
	Total Faculty	11	5	37	8

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

		All Basic Science Depts.	Physiology
Chair	25th	214,000	225,000
	Median	263,000	256,000
	75th	315,000	296,000
	Mean	268,400	266,200
	Total Faculty	546	67
Professor	25th	134,000	133,000
	Median	161,000	156,000
	75th	196,000	183,000
	Mean	171,200	161,500
	Total Faculty	4,291	540
Associate Professor	25th	97,000	95,000
	Median	112,000	108,000
	75th	130,000	124,000
	Mean	115,200	110,900
	Total Faculty	3,141	309
Assistant Professor	25th	73,000	69,000
	Median	88,000	85,000
	75th	100,000	95,000
	Mean	88,200	84,000
	Total Faculty	3,959	395
Instructor	25th	50,000	46,000
	Median	55,000	52,000
	75th	66,000	64,000
	Mean	60,400	55,500
	Total Faculty	624	61