MONEY

The new ACDP report shows the changing reality for physiology in academia.

BY REBECCA A. CLAY

Good decisions start with good data. That's the idea behind the Association of Chairs of Departments of Physiology's (ACDP's) annual survey, which has gone out to North American physiology and physiology-related departments for more than two decades. The data allow chairs to make persuasive arguments for more resources and for departments to see how they measure up in areas such as the proportion of women and underrepresented minority trainees or department space designated for research. You can use the ACDP data, along with an accompanying salary survey, as a tool to advocate for yourself or your department.

The ACDP data offer a snapshot of faculty and student demographics, departmental budgets, research space, time spent teaching and other points of interest. This year's response rate was 27 percent, with 54 partial or complete surveys returned from 39 public medical schools, 13 private medical schools and two private nonmedical schools.

The average annual departmental budget among respondents was \$9,007,876, with departments in private medical schools reporting average budgets of \$11,176,976 and those in public medical schools averaging \$8,603,269. (Outside research grants and contracts accounted for an average of \$5,054,693 of departmental budgets.) On average, departments reported that

they controlled 29,596 square feet of space, with 23,153 square feet of that space devoted to research activities. Average annual stipends were \$47,018 for postdoctoral trainees and \$26,977 for predoctoral trainees.

The survey results over the past few decades—with data since 1996 available online at www.acdponline. org/home/surveys/past-surveys—offer a look at how physiology as a field has been changing. "This is a wonderful archive," says Elsa I. Mangiarua, PhD, a professor of biomedical sciences at Marshall University's Joan C. Edwards School of Medicine in Huntington, W.V., who has worked on the survey for the past five years. "It's a great service to the community; it keeps historical data that we don't have in any other place I know of."

Take diversity among the next generation of physiologists. "There has been a concerted effort to enhance recruitment of women into science, technology, engineering and mathematics careers," says ACDP President and APS Past President Patricia E. Molina, MD, PhD, FAPS, who heads the department of physiology at Louisiana State University Health Sciences Center in New Orleans. The statistics show those efforts are slowly paying off, with women accounting for 37 percent of graduate students and postdoctoral trainees in 1998 compared with 48 percent in 2018. Similarly, the percentage of racial and ethnic minorities among predoctoral graduate students and postdoctoral trainees who are U.S. citizens and resident

Student Contact Hours for Faculty per Year

| STUDENT TYPE | AVERAGE (HOURS) | NO. OF DEPTS. |
|--------------|--|---|
| Graduate | 284 | 29 |
| Medical | 47 | 24 |
| Other | 284 | 29 |
| Graduate | 61 | 45 |
| Medical | 41 | 42 |
| Other | 131 | 28 |
| Graduate | 46 | 30 |
| Medical | 23 | 36 |
| Other | 61 | 16 |
| | Graduate Medical Other Graduate Medical Other Graduate Medical Medical | Graduate 284 Medical 47 Other 284 Graduate 61 Medical 41 Other 131 Graduate 46 Medical 23 |

aliens has edged up from 24 percent in 1998 to 28 percent in 2018.

The number of foreign predoctoral graduate students and postdoctoral trainees has fluctuated over the past two decades, jumping from 29 percent in 1998 to 43 percent in 2008, then declining to 36 percent in 2018. Recent immigration policies may be having an impact, particularly among students "from countries that have greater barriers for visas," Molina says.

When it comes to salary information, ACDP now relies on data collected

by the Association of American Medical Colleges (AAMC). "We were getting smaller percentages of faculty responding, and AAMC can get 99 percent of all physiology departments to respond," says Melinda Lowy, executive assistant for ACDP, who administers ACDP's survey. "That's much more valuable."

The results from AAMC's 2018 survey reveal that total compensation is "creeping up," at least when it comes to physiology department faculty with PhDs, Lowy says. Median compensation for PhD faculty increased 4 percent between fiscal year 2016 and 2017 and fiscal year 2017 and 2018, with median salaries increasing from \$125,000 to \$130,000. For faculty with MDs, median compensation was down 2.8 percent over the same period, with median salaries decreasing from \$141,000 to \$137,000. (The data combine mean and median values for assistant, associate and full professors.)

Administrators often argue that a single "mega-department" combining all the basic sciences needs less funding and fewer resources than multiple individual departments, Lowy says. As a result, "departments have issues with being merged right now,"

Faculty Summary based on Race and Ethnicity

(n=53 depts.) "-" indicates no value

| | MALE | FEMALE | NOT SPECIFIED | TOTAL |
|-------------------------------|------|--------|---------------|-------|
| Asian/Pacific Islander | 126 | 50 | 1 | 177 |
| Black (not Hispanic) | 7 | 1 | _ | 8 |
| Hispanic | 31 | 20 | _ | 51 |
| Native American | 0 | 1 | _ | 1 |
| White (not Hispanic) | 494 | 210 | 1 | 705 |
| Foreign National | 40 | 15 | _ | 55 |
| Not identified race/ethnicity | _ | - | - | _ |
| Not identified gender | _ | - | 1 | 1 |
| TOTAL | 698 | 297 | 3 | 998 |

Race/Ethnicity of US Citizen/Resident Alien Pre- and Postdoctoral Students/Trainees

(n=48 depts.) "-" indicates no value

| | PREDO | CTORAL | POSTDOCTORAL | | |
|------------------------|-------|--------|--------------|--------|--|
| | MALE | FEMALE | MALE | FEMALE | |
| Native American | - | 2 | - | 1 | |
| Asian/Pacific Islander | 34 | 27 | 26 | 14 | |
| Black (not Hispanic) | 18 | 30 | 6 | 7 | |
| Hispanic | 27 | 31 | 5 | 10 | |
| White (not Hispanic) | 230 | 232 | 85 | 69 | |
| Other | _ | _ | _ | _ | |
| TOTAL | 309 | 322 | 122 | 101 | |

she says, adding that she hopes the ACDP and AAMC data will be both informative and useful for discussions with administrators. For example, chairs and program directors can use the ACDP data to make the case for more resources.

"This survey allows people to go to their deans, vice presidents for research or whomever and say, 'We have all these research dollars, yet compared to other departments we don't have as much space' or 'We're not getting back some of the money from indirect costs

like other departments are," Lowy says. "Or they can say, 'Our faculty have way more hours of teaching compared to other faculty and compared to the grants we're bringing in."

Knowledge is power when it comes to salary negotiations—and the AAMC salary data can be especially useful for researchers planning their next career move. "If you're applying for a job as an associate professor, you can see what the average salary is," Lowy says. "If they're offering you way under that amount or way over ... you have something you can go back in and negotiate with." Chairs and program directors can also use the salary data to make the case for higher salaries for their faculty.

For those who already have jobs, the data allow comparisons with peers in similar institutions in their regions or nationally. "The salary data is always an eye-opener," Mangiarua says. 🔊

View the full survey data at www.the-aps.org/tphysmag.

Budget by Institution

| | ALL INSTITUTIONS | NO. OF DEPTS | MEAN NO. OF FACULTY | PRIVATE MEDICAL | NO. OF DEPTS | MEAN NO. OF FACULTY | PUBLIC MEDICAL | NO. OF DEPTS | MEAN NO. OF FACULTY |
|---|---------------------|-----------------|---------------------------|--------------------|-----------------|---------------------------|-------------------|-----------------|---------------------------|
| Institutional (Hard money, e.g., operating costs, state allocations) | \$2,558,936 | 49 | 21 | \$2,690,457 | 12 | 18 | \$2,493,982 | 35 | 22 |
| Outside Research Grants and Contracts (direct costs only) | 5,054,693 | 48 | 21 | 5,543,809 | 12 | 18 | 5,025,754 | 35 | 22 |
| Training Grants (direct costs only) | 334,002 | 22 | 22 | 370,358 | 6 | 20 | 320,369 | 16 | 23 |
| Endowments | 567,234 | 36 | 21 | 1,571,842 | 9 | 18 | 246,283 | 25 | 23 |
| Indirect Cost Recovery (amount returned to department) | 477,687 | 35 | 23 | 1,477,993 | 6 | 21 | 270,727 | 29 | 23 |
| Other Budget Support | 875,309 | 33 | 22 | 1,679,306 | 6 | 18 | 722,668 | 26 | 24 |
| Avg. Departmental Budget | 9,007,876 | 49 | 21 | 11,176,976 | 12 | 18 | 8,603,269 | 35 | 22 |
| SD | 6,526,012 | | | 9,382,670 | | | 5,249,988 | | |
| TOTAL FACULTY | | | 1,015 | | I | 212 | | | 776 |

Non-medical: only two departments responded so those numbers are not presented separately but are included in All Institutions.

Complete Ranking According to Total Dollars

| TOTAL | .DOLLARS | RESEA DOLLA | ARCH GRANT ARS | | ARCH DOLLARS ACULTY | RESEA | ARCH SPACE | RESE/ DOLL | ARCH ARS SQ. FT. | NO. OF FACULTY |
|-------|---------------|----------------|-------------------|------|------------------------|-------|------------|---------------|---------------------|-------------------|
| RANK | \$ | RANK | \$ | RANK | \$ | RANK | \$ | RANK | SQ. FT. | |
| 1 | \$ 35,516,990 | 3 | \$ 11,806,049 | 2 | \$ 491,919 | 2 | \$ 49,118 | 15 | 240 | 24 |
| 2 | 24,928,046 | 1 | 16,206,531 | 4 | 438,014 | 4 | 44,336 | 8 | 366 | 37 |
| 3 | 22,691,410 | 2 | 15,672,126 | 7 | 412,424 | 9 | 34,591 | 5 | 453 | 38 |
| 4 | 17,677,597 | 10 | 7,595,560 | 5 | 421,976 | 8 | 36,042 | 25 | 211 | 18 |
| 5 | 17,558,123 | 5 | 9,561,204 | 11 | 382,448 | 23 | 20,367 | 4 | 469 | 25 |
| 6 | 16,794,526 | 8 | 8,414,263 | 3 | 467,459 | 20 | 21,913 | 7 | 384 | 18 |
| 7 | 14,263,717 | 7 | 8,613,690 | 32 | 172,274 | 5 | 38,298 | 19 | 225 | 50 |
| 8 | 13,721,377 | 4 | 10,065,972 | 1 | 529,788 | 3 | 48,939 | 29 | 206 | 19 |
| 9 | 13,649,946 | 11 | 7,313,970 | 15 | 304,749 | 10 | 33,754 | 23 | 217 | 24 |
| 10 | 12,427,148 | 9 | 7,814,694 | 8 | 411,300 | 14 | 30,953 | 13 | 252 | 19 |
| 11 | 12,385,791 | 6 | 9,032,008 | 10 | 392,696 | 7 | 36,048 | 14 | 251 | 23 |
| 12 | 11,531,394 | 21 | 4,523,057 | 27 | 196,655 | 15 | 27,440 | 35 | 165 | 23 |
| 13 | 11,524,670 | 13 | 6,500,000 | 26 | 196,970 | 44 | 10,414 | 2 | 624 | 33 |
| 14 | 11,362,570 | 17 | 6,179,233 | 14 | 308,962 | 12 | 32,384 | 32 | 191 | 20 |
| 15 | 11,345,032 | 14 | 6,256,008 | 20 | 250,240 | 6 | 37,098 | 33 | 169 | 25 |
| 16 | 10,833,615 | 18 | 5,782,329 | 30 | 175,222 | 16 | 26,020 | 20 | 222 | 33 |
| 17 | 10,669,041 | 20 | 4,621,336 | 41 | 107,473 | 11 | 33,170 | 37 | 139 | 43 |
| 18 | 8,985,451 | 15 | 6,223,237 | 18 | 270,576 | 43 | 10,555 | 3 | 590 | 23 |
| 19 | 8,905,833 | 16 | 6,195,790 | 6 | 413,053 | 19 | 22,168 | 11 | 279 | 15 |
| 20 | 8,513,890 | 27 | 3,975,695 | 25 | 220,872 | 26 | 19,053 | 27 | 209 | 18 |
| 21 | 8,350,156 | 28 | 3,931,998 | 36 | 140,429 | 18 | 23,924 | 36 | 164 | 28 |
| 22 | 7,683,929 | 19 | 4,882,879 | 9 | 406,907 | 30 | 16,729 | 10 | 292 | 12 |
| 23 | 7,582,302 | 24 | 4,304,724 | 40 | 110,378 | 21 | 21,517 | 30 | 200 | 39 |
| 24 | 7,565,306 | 22 | 4,440,766 | 12 | 317,198 | 31 | 15,916 | 12 | 279 | 14 |
| 25 | 7,527,468 | 12 | 7,000,000 | 23 | 233,333 | 45 | 10,100 | 1 | 693 | 30 |
| 26 | 7,137,539 | 26 | 4,116,015 | 17 | 274,401 | 25 | 19,417 | 24 | 212 | 15 |
| 27 | 6,505,481 | 37 | 2,662,208 | 45 | 88,740 | 1 | 49,427 | 45 | 54 | 30 |
| 28 | 6,356,404 | 30 | 3,428,132 | 24 | 228,542 | 28 | 17,446 | 31 | 196 | 15 |
| 29 | 6,096,719 | 23 | 4,400,000 | 16 | 293,333 | 42 | 11,427 | 6 | 385 | 15 |
| 30 | 6,011,771 | 29 | 3,859,819 | 19 | 257,321 | 29 | 17,096 | 18 | 226 | 15 |
| 31 | 6,006,594 | 31 | 3,197,136 | 37 | 127,885 | 33 | 14,492 | 21 | 221 | 25 |
| 32 | 5,995,368 | 25 | 4,241,204 | 21 | 249,483 | 24 | 20,223 | 26 | 210 | 17 |
| 33 | 5,878,750 | 39 | 2,317,766 | 38 | 121,988 | 13 | 31,563 | 42 | 73 | 19 |
| 34 | 5,411,774 | 36 | 2,728,793 | 28 | 194,914 | 37 | 12,484 | 22 | 219 | 14 |
| 35 | 5,161,872 | 33 | 2,940,383 | 34 | 163,355 | 38 | 12,475 | 16 | 236 | 18 |
| 36 | 4,828,008 | 48 | 198,208 | 48 | 9,910 | 27 | 18,500 | 47 | 11 | 20 |
| 37 | 4,516,683 | 32 | 3,184,810 | 29 | 176,934 | 17 | 24,000 | 39 | 133 | 18 |
| 38 | 4,382,172 | 38 | 2,420,548 | 31 | 172,896 | 40 | 11,623 | 28 | 208 | 14 |
| 39 | 4,276,280 | 42 | 1,698,422 | 42 | 106,151 | 34 | 13,210 | 40 | 129 | 16 |
| 40 | 3,933,273 | 40 | 2,071,875 | 35 | 159,375 | 35 | 12,507 | 34 | 166 | 13 |
| 41 | 3,930,983 | 34 | 2,848,584 | 13 | 316,509 | 46 | 9,356 | 9 | 304 | 9 |
| 42 | 3,914,698 | 43 | 1,538,306 | 39 | 118,331 | 22 | 21,204 | 43 | 73 | 13 |
| 43 | 3,892,607 | 35 | 2,838,968 | 33 | 166,998 | 39 | 12,048 | 17 | 236 | 17 |
| 44 | 3,877,456 | 44 | 1,278,047 | 43 | 91,289 | 32 | 14,774 | 41 | 87 | 14 |
| | | | | | | | | | | |
| 45 | 2,991,150 | 41 | 1,699,530 | 22 | 242,790 | 36 | 12,500 | 38 | 136 | 7 |
| 46 | 1,930,000 | 47 | 229,000 | 47 | 22,900 | 41 | 11,600 | 46 | 20 | 10 |
| 47 | 1,697,743 | 46 | 561,398 | 46 | 62,378 | 47 | 8,289 | 44 | 68 | 9 |
| 48 | 1,337,256 | 45 | 1,253,034 | 44 | 89,502 | | | | | 14 |
| 49 | 1,320,000 | | | | | 48 | 2,975 | | | 7 |

Association of Chairs of Departments of Physiology (ACDP)

2018 ANNUAL SURVEY

Faculty Summary Based on Position

(n=53 departments)

| | NO | AVERAGE NO. YEARS IN | NO | AVERAGE NO. YEARS IN | GENDER | TOTAL | TOTAL AVERAGE NO. YEARS IN |
|---------------------|-----|-------------------------|-----|-------------------------|-----------|---------------|----------------------------|
| Chair | NO. | POSITION | NO. | POSITION | NOT GIVEN | NUMBER A A | POSITION |
| Criair | 33 | 14.3 | 10 | 1.1 | 1 | 44 | 12.9 |
| Professor | 323 | 14.7 | 96 | 11 | | 419 | 13.9 |
| Associate Professor | 174 | 8.1 | 80 | 7.1 | | 254 | 7.8 |
| Assistant Professor | 135 | 5.1 | 78 | 5 | 1 | 214 | 5 |
| Instructor | 31 | 5 | 31 | 6.1 | | 62 | 5.5 |
| Rank not given | 4 | | 1 | | | 5 | 9.2 |
| TOTAL | 700 | | 296 | | 2 | 998 | |

Tenure Status in Each Department by Degree

(n=53 departments)

| | TENURED | | NOT TENURED BUT ELIGIBLE | | NOT ELIGIBLE | | NOT IDENTIFIED | | |
|---------------------|---------|-------------------|-----------------------------|-------------------|--------------|-------------------|----------------|-------------------|-----|
| | NO. | YEARS IN POSITION | NO. | YEARS IN POSITION | NO. | YEARS IN POSITION | NO. | YEARS IN POSITION | |
| M.D. | 13 | 12.8 | 6 | 6 | 6 | 14.8 | 1 | | 26 |
| Ph.D. | 555 | 12.6 | 156 | 3.4 | 158 | 7 | 20 | 8.9 | 889 |
| 2 Doctorates | 37 | 10.2 | 11 | 4.1 | 19 | 10.2 | 1 | | 68 |
| Other | 2 | | 0 | | 10 | 7.1 | 1 | | 13 |
| Tenure not reported | • | | | | | | | | 2 |
| TOTAL | 607 | | 173 | | 193 | | 23 | | 998 |

Student/Trainee Summary

(n=48 departments)

| | PREDO | CTORAL | POSTDOCTORAL | | |
|---------------------------|-------|--------|--------------|--------|--|
| | MALE | FEMALE | MALE | FEMALE | |
| US Citizen/Resident Alien | 309 | 322 | 122 | 101 | |
| Foreign | 80 | 97 | 186 | 118 | |
| TOTAL | 389 | 419 | 308 | 219 | |

Foreign National Predoctoral Trainee Completions

(as of June 30, 2018) (n=18 depts.)

| MALE | FEMALE |
|------|-----------------------|
| 0 | 1 |
| 9 | 14 |
| 2 | 1 |
| 2 | 2 |
| 2 | 3 |
| 0 | 0 |
| 15 | 21 |
| | 0 9 2 2 2 |

Number and Ethnicity of Foreign Pre- and Postdoctoral Students/Trainees

(n=48 departments)

| | PREDO | CTORAL | POSTDOCTORAL | | |
|-------------------------|-------|--------|--------------|--------|--|
| | MALE | FEMALE | MALE | FEMALE | |
| African | 3 | 4 | 1 | 0 | |
| Asian/Pacific Islander | 44 | 53 | 102 | 46 | |
| Central/South American | 8 | 5 | 12 | 15 | |
| European/Canadian, etc. | 10 | 7 | 34 | 37 | |
| Middle Eastern | 15 | 27 | 29 | 10 | |
| Other | 0 | 1 | 8 | 10 | |
| TOTAL | 80 | 97 | 186 | 118 | |

US/Resident Alien Predoctoral Trainee Completions

(as of June 30, 2018) (n=34 depts.)

| | MALE | FEMALE |
|------------------------|------|--------|
| Native American | 0 | 0 |
| Asian/Pacific Islander | 5 | 10 |
| Black (not Hispanic) | 3 | 4 |
| Hispanic | 3 | 5 |
| White (not Hispanic) | 44 | 28 |
| Foreign | 80 | 97 |
| TOTAL | 55 | 47 |

Total Predoctoral Trainee Completions During the Year Ending June 30, 2018

(n=37 depts.)

| | TOTAL |
|--------|-------|
| Female | 68 |
| Male | 70 |
| TOTAL | 138 |

Primary Source of Support for Foreign Pre- and Postdoctoral Trainees

(n=46 depts.)

| (ii io depter) | PREDOCTORAL | POSTDOCTORAL |
|---------------------------|-------------|--------------|
| Institutional | 103 | 23 |
| Research Grants | 139 | 244 |
| Private Foundations | 9 | 10 |
| Home (foreign) Government | 12 | 8 |
| Medical | Non-medical | 3 |
| TOTAL | 269 | 288 |

Teaching Interactions with Students in Fields of Study

(n=54 depts.)

| | NO. OF DEPTS. | % |
|------------------|---------------|----|
| M.D./D.O | 46 | 85 |
| D.D.S | 16 | 30 |
| D.V.M. | 5 | 9 |
| Allied Health* | 24 | 44 |
| Pharmacy | 9 | 17 |
| Other Biomedical | 37 | 69 |
| Life Science | 28 | 52 |
| Bioengineering | 25 | 46 |
| Other** | 14 | 26 |

 $^{^{\}ast}$ Allied Health is assumed to include: dental hygienist, nurses, occupational $the rap ists, physical\ the rap ists, physicians' assistants, etc.$

Average Annual Stipend

(US\$)

| | AVERAGE | NO. OF INSTITUTIONS |
|--------------|-----------|---------------------|
| Predoctoral | \$ 26,977 | 46 |
| Postdoctoral | \$ 47,018 | 45 |

Space Controlled by Department

| | AVERAGE SPACE (SQ. FT.) | NO. OF DEPTS. |
|----------------------|----------------------------|---------------|
| Research Space | 23,153 | 49 |
| Administrative Space | 3,539 | 48 |
| Teaching Space | 2,381 | 29 |
| Other Space: | 2,647 | 29 |
| TOTAL | 29,596 | 49 |

Other includes common space, prep room, storage, core facilities, offices

Type of Institution

| | MEDICAL | NON-MEDICAL |
|---------|---------|-------------|
| Private | 13 | 2 |
| Public | 39 | 0 |
| TOTAL | 52 | 2 |

Medical Physiology Course Type

| | YES | NO | TOTAL RESPONDED |
|-----------------------------------|-----|----|--------------------|
| Integrated Course (Systems based) | 38 | 12 | 50 |
| Traditional (Discipline-based) | 25 | 26 | 51 |
| Integrated Preclinical Curriculum | 40 | 11 | 51 |

Financial Information

| | AVERAGE | NO. OF DEPTS. |
|--|---------|------------------|
| Current fringe benefit rate most frequently used for Primary faculty | 32 | 48 |
| Federally negotiated indirect cost rate for FY 17-18 off campus | 28 | 46 |
| Federally negotiated indirect cost rate for FY 17-18 on campus | 53 | 48 |
| For faculty salaries raised from grants, etc., percentage of allocated salary dollars directly returned to your department | 63 | 32 |
| Percentage of indirect costs returned to your department | 16 | 31 |
| Percentage of total faculty salaries derived from research grants (do not include fringe benefits costs) | 34 | 45 |
| Percentage of faculty having extramural research funding greater than \$100,000/year | 55 | 47 |

^{**} Other includes pre-professional and graduate students (both MS and PhD)

American Association of Medical Colleges (AAMC)

2018 MEDICAL SCHOOL FACULTY COMPENSATION SURVEY

Distribution of Medical Schools Responding to AAMC Medical School Faculty Compensation Survey

| | NORTHEAST | MIDWEST | SOUTH | WEST | TOTAL |
|---------------------|-----------|---------|-------|------|-------|
| ALL | | | | | |
| Private Medical | 28 | 12 | 14 | 5 | 59 |
| Public Medical | 13 | 23 | 38 | 17 | 91 |
| PHYSIOLOGY | | | | | |
| All Medical Schools | 17 | 20 | 29 | 9 | 75 |

Change in Total Compensation for Physiology Department Ph.D. and M.D. Faculty

| | 2017 | - 2018 | 2016 | - 2017 | 2015 | - 2016 | 2016- | HANGE 2017 TO 7-2018 |
|---------------|------------|-----------|---------|---------|---------|---------|-------|----------------------------|
| | MEAN | MEDIAN | MEAN | MEDIAN | MEAN | MEDIAN | MEAN | MEDIAN |
| Ph.D. Faculty | \$ 141,700 | \$130,000 | 139,200 | 125,000 | 136,200 | 125,000 | 1.8 | 4 |
| M.D. Faculty | 80 | 97 | 186 | 118 | 186 | 118 | 186 | 118 |

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

Summary Statistics on Physiology Department Ph.D. and M.D. Faculty Compensation

| | | 25TH | MEDIAN | 75TH | MEAN | NO OF FACULTY |
|--------------|-----------------|------------|------------|------------|------------|---------------|
| CHAIR | All Schools | \$ 234,000 | \$ 285,000 | \$ 342,000 | \$ 296,100 | 58 |
| | Medical Public | 240,000 | 288,000 | 334,000 | 293,500 | 39 |
| | Medical Private | 214,000 | 279,000 | 375,000 | 301,300 | 19 |
| CHIEF | All Schools | 201,000 | 240,000 | 299,000 | 248,000 | 5 |
| | Medical Public | | | | | 3 |
| | Medical Private | | | | | 2 |
| PROFESSOR | All Schools | 147,000 | 177,000 | 210,000 | 184,100 | 504 |
| | Medical Public | 147,000 | 174,000 | 206,000 | 182,400 | 331 |
| | Medical Private | 147,000 | 182,000 | 224,000 | 187,300 | 179 |
| ASSOC. PROF. | All Schools | 110,000 | 123,000 | 138,000 | 125,600 | 325 |
| | Medical Public | 108,000 | 123,000 | 137,000 | 123,000 | 214 |
| | Medical Private | 112,000 | 123,000 | 144,000 | 130,500 | 111 |
| ASST. PROF. | All Schools | 75,000 | 95,000 | 107,000 | 93,300 | 334 |
| | Medical Public | 74,000 | 93,000 | 105,000 | 91,100 | 228 |
| | Medical Private | 75,000 | 98,000 | 116,000 | 98,000 | 106 |
| INSTRUCTOR | All Schools | 53,000 | 60,000 | 71,000 | 63,100 | 85 |
| | Medical Public | 52,000 | 60,000 | 72,000 | 62,300 | 47 |
| | Medical Private | 55,000 | 62,000 | 70,000 | 64,200 | 38 |

Summary Statistics on Physiology Department Ph.D. and M.D. Faculty Compensation by Region

| | | I | Ph.D. I | Faculty | | M.D. Faculty | | | |
|--------------|-------|------------|------------|------------|------------|--------------|------------|-----------|------------|
| | | NORTHEAST | MIDWEST | SOUTH | WEST | NORTHEAST | MIDWEST | SOUTH | WEST |
| CHAIR | 25th | \$ 234,000 | \$ 240,000 | \$ 228,000 | \$ 281,000 | | | | |
| Me | dian | 279,000 | 292,000 | 270,000 | 306,000 | | | | |
| | 75th | 342,000 | 377,000 | 329,000 | 353,000 | | | | |
| 1 | Mean | 302,200 | 322,700 | 272,400 | 308,300 | | | | |
| Total fa | culty | 14 | 14 | 23 | 7 | 2 | 3 | 4 | 2 |
| CHIEF | 25th | | | | | | | | |
| Me | dian | | | | | | • | | |
| | 75th | | | | | | | | |
| | Mean | | | | | | | | |
| Total fa | culty | 0 | 3 | 2 | 0 | 1 | 0 | 0 | 0 |
| PROFESSOR | 25th | \$ 154,000 | \$ 153,000 | \$140,000 | \$ 155,000 | \$ 187,000 | \$ 117,000 | \$132,000 | \$ 161,000 |
| Me | dian | 179,000 | 179,000 | 170,000 | 187,000 | 213,000 | 178,000 | 192,000 | 196,000 |
| | 75th | 208,000 | 216,000 | 204,000 | 223,000 | 280,000 | 224,000 | 276,000 | 244,000 |
| | Mean | 182,200 | 186,800 | 174,600 | 201,500 | 230,100 | 171,600 | 206,000 | 211,500 |
| Total fa | culty | 96 | 142 | 179 | 87 | 21 | 5 | 26 | 12 |
| ASSOC. PROF. | 25th | \$118,000 | \$109,000 | \$106,000 | \$ 115,000 | | \$109,000 | \$104,000 | |
| Me | dian | 127,000 | 121,000 | 121,000 | 127,000 | | 124,000 | 118,000 | |
| | 75th | 143,000 | 137,000 | 137,000 | 143,000 | | 148,000 | 142,000 | |
| I | Mean | 133,800 | 123,500 | 121,500 | 127,100 | • | 128,900 | 118,300 | |
| Total fa | culty | 79 | 93 | 123 | 30 | 3 | 11 | 16 | 3 |
| ASST. PROF. | 25th | \$ 75,000 | \$ 74,000 | \$ 74,000 | \$ 76,000 | | \$ 55,000 | \$ 73,000 | |
| Me | dian | 100,000 | 96,000 | 90,000 | 98,000 | | 97,000 | 80,000 | |
| | 75th | 116,000 | 106,000 | 104,000 | 111,000 | | 102,000 | 92,000 | |
| 1 | Mean | 98,700 | 94,200 | 89,000 | 96,400 | | 81,300 | 80,300 | |
| Total fa | culty | 64 | 97 | 135 | 38 | 2 | 7 | 16 | 4 |
| INSTRUCTOR | 25th | \$ 52,000 | \$ 48,000 | \$ 53,000 | \$ 60,000 | | | | |
| Me | dian | 59,000 | 58,000 | 60,000 | 72,000 | • | | | |
| | 75th | 65,000 | 72,000 | 66,000 | 79,000 | | | | |
| I | Иean | 64,100 | 60,900 | 60,900 | 68,600 | | | | |
| Total fa | culty | 14 | 15 | 37 | 19 | 2 | 1 | 0 | 1 |

Salary comparison between all basic science departments and physiology departments for both PhD and MD faculty

| | 1 | Ph.D. F | aculty | M.D. Faculty | | |
|--------------|---------------|----------------------------|------------|----------------------------|------------|--|
| | | ALL BASIC SCIENCE DEPTS | PHYSIOLOGY | ALL BASIC SCIENCE DEPTS | PHYSIOLOGY | |
| CHAIR | 25th | \$ 245,000 | \$ 234,000 | \$ 291,000 | \$ 280,000 | |
| | Median | 305,000 | 285,000 | 400,000 | 350,000 | |
| | 75th | 361,000 | 342,000 | 484,000 | 449,000 | |
| | Mean | 309,200 | 296,100 | 409,900 | 372,400 | |
| | Total faculty | 500 | 58 | 110 | 11 | |
| CHIEF | 25th | \$ 165,000 | \$ 201,000 | \$ 251,000 | | |
| | Median | 227,000 | 240,000 | 323,000 | | |
| | 75th | 292,000 | 299,000 | 355,000 | | |
| | Mean | 247,100 | 248,000 | 322,600 | | |
| | Total faculty | 70 | 5 | 19 | 1 | |
| PROFESSOR | 25th | \$ 155,000 | \$ 147,000 | \$ 176,000 | \$ 156,000 | |
| | Median | 185,000 | 177,000 | 217,000 | 204,000 | |
| | 75th | 227,000 | 210,000 | 275,000 | 271,000 | |
| | Mean | 197,100 | 184,100 | 238,700 | 212,200 | |
| | Total faculty | 4,510 | 504 | 628 | 64 | |
| ASSOC. PROF. | 25th | \$ 110,000 | \$ 110,000 | \$ 119,000 | \$ 108,000 | |
| | Median | 127,000 | 123,000 | 143,000 | 123,000 | |
| | 75th | 147,000 | 138,000 | 182,000 | 147,000 | |
| | Mean | 131,600 | 125,600 | 156,800 | 124,900 | |
| | Total faculty | 3,508 | 325 | 352 | 33 | |
| ASST. PROF. | 25th | \$ 83,000 | \$ 75,000 | \$ 88,000 | \$ 68,000 | |
| | Median | 100,000 | 95,000 | 111,000 | 90,000 | |
| | 75th | 118,000 | 107,000 | 150,000 | 102,000 | |
| | Mean | 102,100 | 93,300 | 125,200 | 84,500 | |
| | Total faculty | 4,215 | 334 | 414 | 29 | |
| NSTRUCTOR | 25th | \$ 55,000 | \$ 53,000 | \$ 65,000 | | |
| | Median | 62,000 | 60,000 | 78,000 | | |
| | 75th | 73,000 | 71,000 | 109,000 | | |
| | Mean | 67,800 | 63,100 | 93,000 | | |
| | Total faculty | 659 | 85 | 54 | 4 | |