



The Physiologist

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Association of Chairs of Departments of Physiology 2011 Survey Results

Susan DeMesquita and Marshall H. Montrose
American University of the Caribbean School of Medicine;
and Univ. of Cincinnati, OH

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. ❖

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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

<i>US citizen/resident aliens</i>			
Predoctoral male	199	Postdoctoral male	98
Predoctoral female	190	Postdoctoral female	85
<i>Foreign</i>			
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)

Number of Foreign Pre- & Postdoctoral Students/Trainees					Number of Foreign Pre- & Postdoctoral trainees whose primary source of support is:		
	Predoctoral		Postdoctoral			Pre-doctoral	Postdoctoral
	Male	Female	Male	Female			
African	3	2	1	0	Institutional	64	16
Asian/Pacific Islander	59	71	86	66	Research Grants	187	265
Central/South American	5	5	8	7	Private Foundations	5	17
European/Canadian, etc.	7	9	18	20	Home (foreign) Gov.	1	2
Middle Eastern	15	7	17	8	Other	13	3
Other	0	0	2	7	Total	270	303
Total	89	94	132	108			

Table 3. Institution Summary

Type of Institution (n=39)		Space Controlled by Department	
		Average	
Private	8	Research Space	17,292
Public	31	Administrative Space	3,606
Total	39	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	20	227	17
13	7,624,323	21	3,902,248	30	150,086	11	21,422	28	182	26
14	7,439,600	19	4,071,700	23	193,890	16	18,799	22	217	21
15	7,359,222	24	3,151,536	34	116,724	31	11,903	14	265	27
16	7,301,890	8	5,090,420	21	221,323	4	27,710	27	184	23
17	7,142,648	20	4,040,077	22	212,636	34	10,486	4	385	19
18	6,985,425	16	4,517,429	12	282,339	12	19,848	19	228	16
19	6,874,050	17	4,320,000	10	308,571	8	22,681	25	190	14
20	6,596,135	25	3,096,533	32	129,022	13	19,798	30	156	24
21	6,416,238	14	4,610,568	7	354,659	22	14,824	7	311	13
22	6,369,418	10	4,860,421	6	373,879	17	17,535	13	277	13
23	6,018,921	27	2,801,015	26	186,734	6	25,288	36	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	37	12,484	37	150	12
33	3,703,091	37	1,063,371	37	55,967	29	14,921	8	71	19
34	3,701,965	35	1,624,365	17	270,728	21	5,528	31	294	6
35	3,566,099	34	1,750,587	31	145,882	39	11,329	38	155	12
36	3,059,688	38	918,000	38	45,900	32	16,292	35	56	20
37	2,831,516	36	1,523,409	28	169,268	20	12,470	39	122	9
38	2,263,000	31	1,900,000	35	105,556	30	13,552	33	140	18
39	1,433,859	39	350,000	39	43,750	25	11,203	33	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

Second Meeting of the Puerto Rico Physiological Society

The Puerto Rico Physiological Society (PRPS) celebrated its 2nd Annual Scientific Meeting as part of the First Caribbean Obesity Summit held on March 2, 2012 at the Ponce Hilton Resort and Casino. This dual meeting brought together a diverse group of medical and public health professionals, practitioners, academicians, researchers, and students (postdoctoral, graduate and undergraduate) from across the Island and the US to explore the science and impact of obesity on the population, as well as highlight recent advances in physiology. Attendance at

the meeting totaled more than 200 registered individuals, and 12 research posters were presented by students from the three major medical schools on the island.

The meeting began at about 8:30 AM with a continental breakfast and welcoming remarks from Leon Ferder, President of the PRPS and Chairman of the Department of Physiology and Pharmacology at Ponce School of Medicine and Health Sciences, and Anne Peterson, Director of the Public Health Program. Obesity is a multifaceted phenomenon of genetic, molec-

ular, environmental, and behavioral factors that invariably determines metabolism, appetite and body weight. As in the US and other parts of the developed world, obesity rates have reached epidemic proportions in Puerto Rico. According to the Kaiser Foundation, Puerto Rico has surpassed the US in obesity prevalence and type 2 diabetes. The First Caribbean Obesity Summit provided an educational and scientific forum for participants to discuss and define responses to help reduce the obesity trend and associated diseases and to



León F. Ferder (President, PRPS) interacting with speakers Cynthia Pérez and Christina Palacios (seated).



Kevin Hall presents "The calculus of calories: Quantifying the effect of energy imbalance on weight change".



PRPS members and conference attendees during morning sessions.



John E. Hall, Keynote Speaker presents “Pathophysiology of hypertension in obesity and metabolic syndrome.”



Nadine Gracia presents “Obesity and Health Disparities.”

improve overall health, productivity and quality of life of people of Caribbean, Puerto Rican and Hispanic origin.

The program included a cadre of speakers from prominent universities and health centers in Puerto Rico and the US, as well as local and federal agencies, covering topics from diabetes and kidney disease to school lunch and farmer’s market nutritional programs.

The morning sessions moderated by Caroline Appleyard (PRPS) com-

menced with two presentations from the Univ. of Puerto Rico School of Public Health related to obesity and the metabolic syndrome (Cynthia Pérez and Christine Palacios), followed by the public health keynote speaker, Nadine Gracia, Acting Director of the Office of Minority Health of the US Department of Health and Human Services and Former Advisor on Childhood Obesity in the Office of the First Lady. Gracia updated the audience on the recent federal initiatives aimed at obesity and

health disparities in the Hispanic population.

During the later part of the morning Kevin Hall (Senior Investigator, NIDDK) and Susan Fried (Boston Univ. School of Medicine) gave scientific sessions related to energy imbalance and the metabolic consequences of obesity.

The research keynote address Pathophysiology of Hypertension in Obesity and Metabolic Syndrome was presented by John E. Hall, Professor



Susan Fried presents “Obesity causes and metabolic consequences.”



Graduate student Raisa Loucil presents her poster.



Namyr Antonio Martinez receives First Place poster award from Dr. Jorge D. Miranda (President-elect, PRPS) and Dr. León F. Ferder (President, PRPS).



Public Health Related session moderator, Anne Peterson.

and Chair of Physiology and Biophysics; Director of the Center of Excellence in Cardiovascular-Renal Research at the Univ. of Mississippi Medical Center; Editor-in-chief of the American Journal of Physiology and Hypertension; and co-author of Textbook of Medical Physiology.

During a lunchtime session, the posters and the student presenters were evaluated by six judges on the overall quality of the presentations. The best three poster presentations received a cash award. The selections were as follows:

First Place, Namyr Antonio Martinez, Univ. of Puerto Rico Medical Sciences. The title of Martinez's presentation was "Membrane Rafts Involvement in the Anti-apoptotic Action of P2Y2 Receptors During Mechanical Injury of 1321N1 Astrocytoma Cells" (Advisors: JD Miranda & WI Silva).

Second Place, Abigail Ruiz from Ponce School of Medicine and Health Sciences. The title of Ruiz's presentation was "CXCL12a induces proliferation and migration of human endometrial epithelial cells expressing CXCR4" (Advisor: I Flores).

Third Place, Ángel de la Cruz from Univ. Central del Caribe. The title of de la Cruz's presentation was: "Glial involvement in the development of Parkinson's disease" (Advisor: M Inyushin).

In the afternoon, the meeting adjourned into two separate rooms to hold concurrent sessions related to diabetes (including a presentation by Elba



Abigail Ruiz receives Second Place poster award from Dr. Jorge D. Miranda (President-elect, PRPS) and Dr. León F. Ferder (President, PRPS).



Ángel de la Cruz receiving Third Place poster award from Dr. Jorge D. Miranda (President-elect, PRPS) and Dr. León F. Ferder (President, PRPS).



2012-2013 PRPS committee members. From left to right: Jose O. Garcia, Nelson Escobales, Caroline B. Appleyard, León F. Ferder, Priscila Sanabria, Amelia Rivera, and Jorge D. Miranda.

Blanes, Executive Director of the Puerto Rican Diabetes Association, and talks by Kaumudi Joshipura, and Leon Ferder); and public health, with panels moderated by Peterson on "Puerto Rican Risk factors for Obesity & its Complications" and "Puerto Rican Obesity Related Programs."

The PRPS portion of the meeting concluded with a business meeting in which the new officers for 2012-2013 were selected as follows: President: Jorge Miranda (Univ. of Puerto Rico-School of Medicine); President-Elect: Dr. Caroline B. Appleyard (Ponce School of Medicine and Health Sciences [PSMHS]); Past President: Leon Ferder

(PSMHS); Secretary/Treasurer: Priscila Sanabria (Univ. Central del Caribe); Councilor: Eugenio Longo (Bio-PR Associates); Councilor: Jose O. Garcia (Postdoctoral student, Univ. of Puerto Rico School of Medicine); Councilor: Amelia Rivera (Univ. Central del Caribe); Past President: Nelson Escobales (Univ. of Puerto Rico School of Medicine). The PRPS acknowledged this year's sponsors for their support which included the American Physiological Society, Bristol-Myers Squibb, Ponce School of Medicine and Health Sciences (PSMHS), Universidad Central del Caribe, UPR-Medical Sciences Campus

(UPR-MSC), the RISE training programs at PSMHS and UPR-MSC, the City of Ponce, US Department of Health and Human Services Office of Minority Health, the National Institute of Diabetes and Digestive and Kidney Disease, and the Puerto Rico Departments of Health, Education, Agriculture and Sports and Recreation.

The meeting concluded at 5:45 PM, after closing remarks from Joxel Garcia, PSMHS President and Dean, and presentation of the poster prizes at an awards ceremony. ❖

Caroline B. Appleyard,
PRPS

CALL FOR NOMINATIONS

For the Editorship of

Comprehensive Physiology

www.comprehensivephysiology.com/WileyCDA

Nominations are invited for the Editorship of *Comprehensive Physiology* to succeed R. Terjung, who will complete his term as Editor on June 30, 2013. The APS Publications Committee plans to interview candidates in the Fall of 2012.

Applications should be received before **August 15, 2012**.

Nominations, accompanied by a curriculum vitae, should be sent to the Chair of the APS Publications Committee via regular mail:

Hershel Raff, Ph.D.
American Physiological Society
9650 Rockville Pike
Bethesda, MD 20814-3991

You may also send your nominations to Hershel Raff via e-mail, care of the APS Publications Dept. Administrative Assistant, Charmon Kight (ckight@the-aps.org).

5/9/12

New Regular Members

*transferred from student membership

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Zaghloul Ahmed
The College of Staten Island, NY

Mohammad M. Al-bataineh*
Univ. of Pittsburgh, PA

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Andrea Barreiro
Southern Methodist Univ., TX

Andrew H. Bass
Cornell Univ., Ithaca, NY

Robert Gerard Bennett
Univ. of Nebraska

Jianli Bi
Wake Forest Univ., NC

David Boone
Univ of Chicago, IL

Glenn Neville Borlace
Univ. of South Australia

Michale Campos
Qualcomm Research, San Diego, CA

Boris P. Chagnaud
Ludwig Maximilians Univ., Germany

Junjie Chen
Washington Univ., St. Louis, MO

Yingjie Chen
Univ. of Minnesota

Birgitte Mønster Christensen
Aarhus Univ., Aarhus, Denmark

Sarah C. Clayton*
Univ. of Iowa

Michael Crair
Yale Univ., CT

Pamela Davern
Baker IDI Heart & Diabetes Inst., Australia

Rodrigo Del Rio
Univ. of Nebraska Med. Ctr.

Steven P. Driska
Temple Univ., PA

Robert Druzinsky
Univ. of Illinois, Chicago

Ali Dogan Dursun*
Kirikkale Ünv., Kirikkale, Turkey

Behzad Ebrahimi
Mayo Clinic, MN

Alfonso Eirin
Mayo Clinic, MN

Gidon Felsen
Univ. of Colorado Sch. Med.

Roman Fomin
American-Russian Int'l Assoc., WA

David W. Franklin
Univ. of Cambridge, UK

Heidi Nicole Fridolfsson
Univ. of California, San Diego

Ko Fujimori
Osaka Univ., Japan

Robert J. Full
Univ. of California, Berkeley

Felicity Gavins
Imperial College of London, UK

Bijan Ghaleh
Faculte De Medicine, Creteil, France

Yanhong Guo
Univ. of Michigan

Silke Haerteis
Univ. Erlangen-Nürnberg, Germany

Scott H. Harrison
North Carolina A&T State Univ.

Ilkka Heinonen
Univ. of Turku, Finland

Juha J. Hulmi
Univ. of Jyväskylä, Finland

Kenichi Ikejima
Juntendo Univ., Tokyo, Japan

Malcolm J. Jackson
Univ. of Liverpool, UK

Sudhir Jain
Univ. of Toledo, OH

Nathan T. Jenkins*
Univ. of Missouri, Columbia

Blair D. Johnson
Mayo Clinic, MN

Chris W.D. Jurgens
Virginia Commonwealth Univ.

James A. Kaltenbach
Cleveland Clinic Foundation, OH

Svetlana Kalujnaia
Univ. of St. Andrews, UK

Akira Kato
Tokyo Inst. of Tech., Kanagawa-ken, Japan

Shinichi Kato
Kyoto Pharmaceutical Univ., Japan

Ellinor Kenne
Karolinska Inst., Sweden

Michail Keramidas*
Royal Inst. of Tech., Sweden

Hye-Young Kim
Chungbuk Nat'l. Univ. Hosp., Rep of Korea

Peter Christiaan Klink
Netherlands Inst. of Neurosci.

Ashok Kumar
Univ. of Toledo, OH

Thomas Langer
US Army Inst. Surgical Res., TX

Anna Katherine Leal*
Penn State Univ.

Daeyeol Lee
Yale Univ., CT

Jun Li
Cincinnati Children's Hosp., OH

Jianming Liu*
Univ. of California, San Francisco

Jing Liu
Columbia Univ., New York, NY

Yusen Liu
Res. Inst. Nationwide Children's Hosp., Columbus, OH

Eric E. Lloyd
Baylor College of Medicine, TX

Katrina Macleod
Univ. of Maryland

Akhil Maheshwari
Univ. of Illinois, Chicago

E. Matthew Morris*
Univ. of Missouri, Columbia

Hayley A. Mattison
Univ. of Washington, Seattle, WA

Delphine Blandine Maurel
INSERM Unit U658, Orleans, France

Ulrike Mende
Rhode Island Hosp. & Brown Univ., MA

Tanecia Tanecia R. Mitchell*
Univ. of Alabama, Birmingham

Arivarasu Natarajan Anbazhagan
Univ. of Illinois, Chicago

Daniel Ryan Moore
Univ. of Guelph, Canada

Adam E. Mullick
Isis Pharmaceuticals, CA

Sydney R. Murphy*
Univ. of Mississippi

Michele Nawata
Univ. of Arizona

Everson Araujo Nunes
Univ. Fed Da Santa Catarina-CCB, Brazil

Paula Nunes*
Univ. de Genève, Switzerland

Yasumasa Okazaki
Univ. Grad. Sch. of Med, Nagoya, Japan

Rena Orman
SUNY Downstate Med. Ctr., NY

Lisa Osborne
Uniformed Services Univ, MD

Jessica M. Osmond*
Univ. of New Mexico, Albuquerque

Helen Palmer
Norwegian Univ. of Sci. and Tech.

Yuan-Xiang Pan
Univ. of Illinois, Urbana-Champaign

Michelle S. Parvatiyar
Univ. of California, Los Angeles

Neal S. Peachey
Cleveland Clinic, OH

Gustavo R. Pedrino*
Univ. Fed. De Goias, Brazil

Alessandro Pocai
Merck & Co., Rahway, NJ

John Richard Prowle
Royal London Hosp. UK

Daniel R. Prows
Cincinnati Children's Hosp., OH

MD Saydur Rahman
Univ. of Texas, Austin

Satish Ramnarayan Raj
Vanderbilt Univ., TN
Madhumitha Rajagopal
Univ. of Kansas
Ankita Roy
Univ. of Pittsburgh, PA
Myoung-gwi Ryou*
Univ. of North Texas HSC, TX
Seema Saksena
Univ. of Illinois, Chicago
Mohamed Salem
West Virginia Univ.
Abdulhalim Salim Serafi
UMM Alqura Univ., Jeddah,
Saudi Arabia
Cara Lynn Sherwood*
Arizona HSC, Tucson
Tatum S. Simonson
Univ. of California, San Diego
Purnima Singh
Tulane Univ., New Orleans, LA
Amika Singla
Univ of Michigan, Ann Arbor, MI

Joshua S. Speed*
Georgia HSU, Augusta, GA
Patric K. Stanton
New York Med. College, Valhalla, NY
Graeme Stasiuk
Imperial College of London, UK
Xiaoxiao Tang
Univ. of Iowa
Jun Tian
Univ. of Nebraska Med. Ctr.
Zsuzsanna Tucsek
Univ. of Oklahoma
Domenico Tupone
Oregon HSU
Marcin Ufnal
Medical Univ., Warsaw, Poland
Natal Van Riel
Eindhoven Univ. of Tech., Netherlands
Pinaki Deepak Wani
Somaiya Med. College, Mumbai, India
Arshani N. Wansapura*
Univ. of Cincinnati, OH
Jyoti J. Watters
Univ. of Wisconsin, Madison

Vithanage Sujith Weerasinghe
Univ. of Michigan
Michael P. Wiggs*
Florida Univ., Gainesville
Robert W. Wiseman
Michigan State Univ., East Lansing
Da Xu
Univ. of Waterloo, Canada
Sergiy Yakovenko
West Virginia Univ.
Toshiki Yamada
Mount Desert Island Biol. Lab,
Salisbury, ME
Alper Yildirim
Louisiana State Univ., Shreveport
Gokhan Yilmaz
UMDNJ, Newark, NJ
Henry Yin
Duke Univ., NC
Wei Zhao
MA Eye & Ear Infirmary, Boston
Robert F. Zoeller
Florida Atlantic Univ., Boca Raton

New Graduate Student Members

Eunus Sheemul Ali
Flinders Univ., Australia
Lauren Marie Azevedo
Michigan State Univ.
Cory Walter Baumann
Georgia State Univ.
Matthew Belzer
Univ. of Arizona
Pallab Bhattacharya
Hindu Univ., India
Bhupal P. Bhetwal
Univ. of Nevada, Reno
Mark Bilodeau
Dartmouth Medical Sch., NH
Christopher Bishop
Univ. of California, Davis
Sylvia Ruck Branum
Univ. of North Texas
Chloe W. Bryant
St. Louis Univ., MO
Heather N. Carter
York Univ., Canada
Shanon L. Casperson
Univ. of Texas Medical Branch
Gaspar R. Chiappa
Hospital Clinic, De Porto Alegre, Brazil
Ann Belton Collins
Univ. of Alabama, Tuscaloosa
Silvana Constantinescu
Univ. of Southern California
Andrea Lee Estrada
Colorado State Univ.
Jessica Leigh Faulkner
Univ. of Mississippi
Kristin M. French
Emory Univ., GA
Fleur Garton
Univ. of Sydney, Australia

Jared A. Godar
Vanderbilt Inst. Imaging Sci., TN
Joanne Clare Gordon
Royal Veterinary College, UK
Craig Wayne Grobbelaar
Univ. of Pretoria, South Africa
Fabio Guidobaldi
Univ. Natl de Rosari, Argentina
Jonathan Heimlich
Georgia Health Scis. Univ.
Chansol Hurr
Univ. of Texas, Austin
Casey S. John
Appalachian State Univ., NC
Tim Just
Univ. of Alberta, Canada
Anton Issa Khalilieh
Ben- Gurion Univ. of the Negev, Israel
Chrysa Anna Kousera
Imperial College of London, UK
Panagiotis Koutakis
Univ. of Nebraska
Alisha Lacewell
Univ. of Oregon
Michael George Leavitt
Brigham Young Univ., UT
Da Li
China Medical Univ.
Nicholas Lituchy
Adelphi Univ., South Africa
Daniel Robert Machin
Univ. of Texas, Austin
Rudo F. Mapanga
Stellenbusch Univ., South Africa
David McCarty
Univ. of Maryland, Baltimore
Gretchen Moran
Colorado State Univ.

Vance Alexander Naughton
Imperial Sch. of London, UK
Patricia Maria Nunes
Radboud Univ./ Nijmegen Med. Ctr.,
Netherlands
Jonathan Michael Oliver
Texas A&M Univ.
Meghana Pandit
Univ. of Utah
Laura Beth Payne
Virginia Tech.
Pablo Anibal Perez
Cordoba Univ., Argentina
Valerie Marie Piet
Louisiana State Univ.
Ransom Harold Poythress
Boston Univ., MA
Loren Rose Reese
Colorado State Univ.
Kathleen Reyskens
Stellenbosch Univ., S. Africa
Robert Steven Rogers
Univ. of Kansas Med. Ctr.
Jessica Renee Santos
Univ. of Colorado
Felcy Selwyn
Univ. of Kansas Med. Ctr.
Joshua Roger Sheak
Univ. of New Mexico
Tiffani Nicole Slaughter
Univ. of Missouri Med. Ctr.
Sophie Xu Teng
Louisiana State Univ.
Myra Ellen Woodworth-Hobbs
Emory Univ., GA
Bojun Zhang
Univ. of New Mexico

New Undergraduate Student Members

Larry L. Bachman
Univ. of California, San Diego

Paulo José Basso
Univ. De São Paulo, Brazil

Luke Norman Belval
Univ. of Connecticut

Pamela Chenard
Laurentian Univ., Canada

Kathan Chintamaneni
Washington Univ., St. Louis, MO

Aida Freire Valls
Pompeu Fabra Univ., Spain

David Michael Hallowell
Brigham Young Univ., UT

Breann Nicole Kluck
College of St. Benedict, MN

Elizabeth F. Miller
California Univ. of PA

Kelsey Mosher
Arizona State Univ.

Brandon Anthony Newmyer
Radford Univ., VA

Justin Nicoll
Univ. of Rhode Island

Humphrey Petersen-Jones
Michigan State Univ.

Raul Ramos
San Diego State Univ., CA

Ben Sebuufu
Gordon College, MA

Stephen Tamm
West Texas A&M

Recently Deceased Members

Henry S. Badeer
Omaha, NE

Bernard E. Bouscarel
Washington, DC

Leonard F. Cipriano
Alamo, CA

Francis N. Craig
Cockeysville, MD

Jose M.R. Delgado
San Diego, CA

Emilia M. Hogan
New Haven, CT

Matthew N. Levy
Cleveland, OH

Arthur J. Riopelle
Houston, TX

Milton J. Schiffrin
Seattle, WA

William A. Spencer
Sterling, VA

Daniel J. Stone
Somers, NY

Ignatius L. Trapani
Depoe Bay, OR

New Affiliate Member

Miguel Agustin Bustillos
California Univ.

CALL FOR NOMINATIONS

For the Editorship of the

American Journal of Physiology–Renal Physiology

ajprenal.org

Nominations are invited for the Editorship of *AJP-Renal Physiology* to succeed T. Kleyman, who will complete his term as Editor on June 30, 2013. The APS Publications Committee plans to interview candidates in the Fall of 2012.

Applications should be received before **August 15, 2012**.

Nominations, accompanied by a curriculum vitae, should be sent to the Chair of the APS Publications Committee via regular mail:

Hershel Raff, Ph.D.
American Physiological Society
9650 Rockville Pike
Bethesda, MD 20814-3991

You may also send your nominations to Hershel Raff via e-mail, care of the APS Publications Dept. Administrative Assistant, Charmon Kight (ckight@the-aps.org).

4-11-12

APS Supports 24 Undergraduate Researchers

The American Physiological Society's Undergraduate Summer Research Fellowships (UGSRF) program is sponsored by the APS Career Opportunities in Physiology Committee and funded by the APS Council. In 2007, APS doubled the number of fellowships. In 2012, we will again be funding 24 undergraduates for the summer. The program was established in 2000, making this the 13th year of the program.

These fellowships are to support full-time undergraduate students to work in the laboratory of an established investigator. The intent of this program is to excite and encourage students to pursue a career as a basic or clinical research scientist. Faculty sponsors/advisors must be active members of the APS in good standing but do not have to be US residents. Past awardees include stu-

dents from Canada, South America, and Israel.

These Fellowships provide a \$4,000 summer stipend to the student (10 weeks of support), a \$300 grant to the faculty sponsor/advisor, and up to \$1,300 to the student so that he/she may attend and present their data at the APS annual meeting, Experimental Biology 2013. ♦

2012 APS UGSRF Awardees.

Student/Student Institution	Research Host/Host Institution
Rees A. Burt East Tennessee State Univ.	Robert Wondergem East Tennessee State Univ.
Adam Fellows Univ. of Oxford, UK	Georges E. Haddad Howard Univ.
Juan G. Garcia Univ. of Texas at Austin	Douglas G. Burrin Baylor College of Medicine
Haley E. Gillham Univ. of Oregon	Jeffrey S. Gilbert Univ. of Oregon
Zakkary Hardyniec Alma College	Charlotte A. Peterson Univ. of Kentucky
Naava Hadassah C. C. Honer Wright State Univ.	David L. Goldstein Wright State Univ.
Vidyasagar Jha Dr. M.G.R Univ., India	Margarita C. Curras-Collazo Univ. of California, Riverside
Zulqarnain Khan Univ. of Maryland, Baltimore	Andrea L. Meredith Univ. of Maryland School of Medicine
Christie Kimball Tulane Univ.	Yumei Feng Tulane Univ. School of Medicine
Jacob Kohler Ursinus College	Beth A. Bailey Ursinus College
Sofia K. H. Morsing Karolinska Institutet, Sweden	Jennifer S. Pollock Georgia Health Sci. Univ.
Christian Munevar Univ. of California, Berkeley	Martin Tresguerres Univ. of California, San Diego
Jenn Nhan Univ. of Utah	J. David Symons Univ. of Utah Medical School
Amber R. D. Nielsen Univ. of North Dakota	Van A. Doze Univ. of North Dakota
Uttara Partap Williams College	Steven J. Swoap Williams College
Humphrey Petersen-Jones Michigan State Univ.	Stephanie W. Watts Michigan State Univ.
Timothy J. Peterson Univ. of Wisconsin, Madison	Gordon S. Mitchell Univ. of Wisconsin, Madison
Lorrie Sims Eastern Kentucky Univ.	Francisco H. Andrade Univ. of Kentucky
Luke Stewart East Carolina Univ.	David A. Brown East Carolina Univ.
Jarred Stratton Duquesne Univ.	Benedict J. Kolber Duquesne Univ.
Lisa Walker Amherst College	Carmen C. Sucharov Univ. of Colorado, Denver
Molly K. Watkins Univ. of Minnesota	Benjamin F. Miller Colorado State Univ.
Kirsten A. Wood Loyola Univ., New Orleans	Lisa M. Harrison-Bernard Louisiana State Univ., New Orleans

2012 Writing and Reviewing for Scientific Journals Course Draws Large Number of Participants from Different Scientific Societies

The APS Professional Skills Training Course on Writing and Reviewing for Scientific Journals was held January 12-15, 2012 in Orlando, FL. Thirty-four students and nine instructors, including members of the American Association of Anatomists (AAA) and the Genetics Society of America (GSA) took part. During this course, students learned the essentials of manuscript writing and reviewing while gaining valuable opportunities for networking and collaboration.

FASEB MARC generously provided travel awards to eligible underrepresented minority students. Participants who successfully applied and received these travel awards were Stan Andrisse, Saint Louis Univ.; Kristine DeLeon, UTHSCSA (APS); Karla Haack, Univ. of Nebraska Medical Center (APS); Michelle Juarez, Univ. of California San Diego (GSA); Lawrence Olala, Georgia Health Sciences Univ.; Kingsley Osuala, Wayne State Univ.; and Charles Rogers, Texas A&M Univ.

Additional trainees who participated in the course included: Sarah Baker, Univ. of Arizona (APS); Maria Barnes, Pennington Biomedical Research Center; Melinda Beavers, Georgia Health Sciences Univ.; Eileen Chang, Univ. of Florida College of Medicine (APS); Charles Downs, Emory Univ. (APS); Nero Evero, Univ. of Colorado Denver; Jennifer Feenstra, Loma Linda Univ. (AAA); Augustin Gonzalez-Vicente, Henry Ford Hospital; Styliani Gouloupoulou, Georgia Health Sciences



Charles Lang (center) discussing manuscripts with participants during a break out session.

Univ. (APS); Christine Gross, Georgia Health Sciences Univ.; Nathaniel Hart, Univ. of Arizona (APS); Namita Hattangady, Georgia Health Sciences Univ.; Jennifer Hotzman, Duke Univ. (AAA); Suttira Intapad, Univ. of Mississippi Medical Center; Li Li, Univ. of Alabama at Birmingham; Ida Lund, Oslo Univ. Hospital; Raffaele Pilla, Univ. of South Florida (APS); Maria Rabaglino, Univ. of Florida; Juilee Rege, Georgia Health Sciences Univ.; Julie Reynolds, Ohio State Univ. (GSA);

Sutheera Sangsiri, Michigan State Univ.; Minoru Shinohara, Georgia Institute of Technology (APS); Kathryn Spitler, Georgia Health Sciences Univ. (APS); Shawn Stasko, Univ. of Kentucky (APS); Joshua Stone, East Carolina Univ. (APS); Katherine Tuggle, Univ. of Alabama at Birmingham; and Achini Vidanapathi-rana, East Carolina Univ.

APS would like to thank the following members for generously offering their expertise and time as instructors for the course: Kim Barrett, Univ. of California San Diego; Heddwen Brooks, Univ. of Arizona; Charles Lang, Penn State Univ. College of Medicine; Cynthia Meininger, Texas A&M Health Science Center; Peter Wagner, Univ. of California San Diego; Mike Wyss, Univ. of Alabama, Birmingham; and Irving Zucker, Univ. of Nebraska College of Medicine. APS would also like to thank Lauren McIntyre, Univ. of Florida, from GSA and Gary Schoenwolf, Univ. of Utah School of Medicine, from AAA for representing their societies as instructors.

The next Writing and Reviewing for Scientific Journals course will be held January 17-20, 2013 in Orlando, FL. For more information, Email education@the-aps.org. ❖



Kim Barrett (center) with her group of course participants.

APS Poster Presentation and Networking Courses Help Trainees Prepare for Experimental Biology

APS offered two Online Professional Skills Training courses this spring to help trainees prepare for the 2012 Experimental Biology meeting: "How to Present a Scientific Poster" and "How to Network at a Scientific Meeting." This was the first year that the courses were held and they were both well-received.

Sixteen trainees took part in the week-long How to Present a Scientific Poster course. During this course students took part in activities, online discussions, video viewings, and readings in order to learn how to introduce a poster, prepare a poster presentation, and present at a scientific meeting. APS would like to thank the following members who served as instructors for the course: Carmen Hinojosa-Laborde, US Army Institute of Surgical Research; Mesia Moore Steed, Wake Forest Univ;

and Thomas Pressley, Texas Tech Univ. Health Science Center. Participants who successfully completed the course were: Christiaan Robert De Vries, Univ. of Medicine and Dentistry of New Jersey; Aditi Dubey, Univ. of Medicine and Dentistry of New Jersey; Abigail Ruiz-Rivera, Ponce School of Medicine (APS); Tiffany Shih, Univ. of Medicine and Dentistry of New Jersey; Sophie Xu Teng, Louisiana State Univ. Health Sciences Center (APS); Vaishali Veldurthy, Univ. of Medicine and Dentistry of New Jersey; Tzung-Ju Wu, Univ. of Medicine and Dentistry of New Jersey; and Yanfei Yang, Univ. of Medicine and Dentistry of New Jersey.

Eight trainees took part in the week-long How to Network at a Scientific Meeting Course. During this course, participants recorded audio and/or video introductions and received feed-

back from their peers and instructor and also received valuable information on conducting oneself at a scientific meeting and other social networking events. APS would like to thank the following members who served as instructors for the course: Mark Knuepfer, Saint Louis Univ. School of Medicine, and Johana Vallejo, Midwestern Univ. of Osteopathic Medicine. Participants who successfully completed the course were: Janice Barros-Monteiro, Ponce School of Medicine; Paulo Caceres, Henry Ford Hospital (APS); Liu Liu, Tulane Univ. Medical School (APS); Abigail Ruiz-Rivera, Ponce School of Medicine (APS); Netanya Spencer, Univ. of Iowa (APS); Kathryn Spitler, Georgia Health Sciences Univ. (APS); and Jun Sun, Rush Univ. (APS). ❖

CALL FOR NOMINATIONS

For the Editorship of the *American Journal of Physiology– Regulatory, Integrative and Comparative Physiology* ajpregu.org

Nominations are invited for the Editorship of *AJP–Regulatory, Integrative, and Comparative Physiology* to succeed C. Sigmund, who will complete his term as Editor on June 30, 2013. The APS Publications Committee plans to interview candidates in the Fall of 2012.

Applications should be received before **August 15, 2012**.

Nominations, accompanied by a curriculum vitae, should be sent to the Chair of the APS Publications Committee via regular mail:

Hershel Raff, Ph.D.
American Physiological Society
9650 Rockville Pike
Bethesda, MD 20814-3991

You may also send your nominations to Hershel Raff via e-mail, care of the APS Publications Dept. Administrative Assistant, Charmon Kight (ckight@the-aps.org).

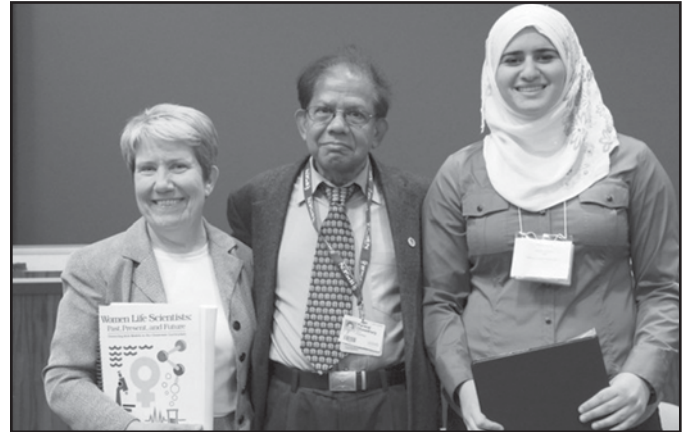
APS 2012 Science Fairs

Science Fair Awardee & Project Title	Teacher	Grade Level	Science Fair	APS Member Judge
Qainat Muhammad Blast From the Past: Low Fat vs. Full Fat Foods	Elizabeth Triplett	8th	Harmony Sci. Academy Euleless Sci. Fair	Dave Knight
Victoria Shields What Type of Bag Will Preserve Fruit for the Longest Amount of Time?	Diane McCann	7th	St. Benilde School Sci. Fair	Lisa Harrison-Bernard
Kenneth Zhou Prediction and Analysis Association Rates of Actin-Binding Proteins	Angela Breza-Pierce	11th	Lawton Chiles High School	Brant Chase
Claudia Gaither The Antioxidant Curcumin: "Cure"-cumin or Not?	Amy Johnson	8th	Hilsman Middle School	Julia Schmitz
Christopher Brown Saxitoxin Degradation	Rhonda Fields	11th	Ballard High School Sci. Fair	Syed Khundmiri
Valerie Sarge Control of the drosophila heart rate: effects of Ca ²⁺ and Ca ²⁺ regulation on the larval heart rate	Paul Dunbar	8th	Kentucky American Water Company Sci. Fair	Kenneth Campbell
Robert Kitaoka Analyzing and Reducing Impact Acceleration of High Sped Projectiles in Sports Recreation	Janet Michet	8th	54th Rochester Regional Sci. Fair	Arthur Beyder
Sanjana Adurty Does Playing a Team Sport Affect Lung Capacity?		8th	Pennsylvania Jr. Academy of Sci.; Region 7 Sci. Fair	Alan Sved
David Fliter The Dirty Truth	Tyson Vrbas	8th	Manhattan Catholic School Sci. Fair	Barry Bradford
Sarah Frederick My Plastic Brain	Jim Larsen	8th	Diocese of Salt Lake City, Diocesan Sci. Fair	Daniel Malleske
Nicolette Laird Analysis of the Tumorigenic miR106-b-25 miRNA in Different Breast Cancer Subtypes	Kristin Donley	12th	Roche Regional Sci. Fair	Christopher Lowry
Herman Makosky Do Trumpet Players Have Greater Lung Capacity than Non-trumpet Players?	Mark Smeltz	7th	CASEF	Patricia Silveyra
Gisele Sampayo Quick Math	Sandra Morfit	5th	Episcopal Day School Sci. Fair	Masako Isokawa
Sarah Alshemi Evidence of Microglia Activation in a Model of Visceral Pain	Annice Steadman		Central Arkansas Regional Sci. Fair	Parimal Chowdhury
Olivia Dure Brain Plasticity: The Effect of Age (A Three Year Study)	Maureen Frye	11th	Central Alabama Regional Sci. and Engineering Fair	Michael Wyss
Jamarcus Ellison Pump, Pump, Pump it Up: The Effect of Caffeine on the Blood Pressure	LaRhonda Brown	7th	Central Alabama Regional Sci. and Engineering Fair	Michael Wyss
Tara Webster Effect of Mental and Physical Exercise on Heart Rate & Blood Pressure	Anita Marko	7th	Delaware Valley Sci. Fair	David Crandall

Science Fair Awardee & Project Title	Teacher	Grade Level	Science Fair	APS Member Judge
Erin Kim Manipulation of Genes Involved in Longevity of C. Elegans	Robert Pergolizzi	10th	North Jersey Regional Sci. Fair	Sue Shapses
Elizabeth Dente The Benzoin-Based Complex: A New Frontier for Skin Repair	Robert Pergolizzi	12th	North Jersey Regional Sci. Fair	Sue Shapses
Sarah Kunch Energy Variation in Babies With Hypoplastic Left Heart Syndrome and Normal Babies	Gail Kunch	11th	Eastern Iowa Sci. and Engineering Fair	Thomas Schmidt
Mohit Jain CCL2 Deficiency Accelerates B-amyloidosis and Impaired Memory Acquisition in a Mouse Model of Alzheimer's Disease	Tomomi Kiyata	12th	Greater Nebraska Sci. and Engineering Fair	G. Patrick Lambert
Karenn Langhals The Effects of Saturated and Unsaturated Fats	Jeanette Marshall	7th	OAS District 6 Sci. Day	Nancy Woodley



Sarah Frederick was awarded best physiology project for her research on "My plastic brain". She is pictured with APS member Daniel Mallese.



Sarah Alshemi was awarded best physiology project for her research on "Evidence of Microglia Activation in a Model of Visceral Pain." She is pictured with APS member Parimal Chowdhury and teacher Annice Steadman.



APS member Alan Sved awarded Sanjana Adurty best physiology project for her research on "Does playing a team sport affect lung capacity?"



APS member Michael Wyss gave awards for best physiology project to Olivia Dure and Jamarcus Ellison at the Central Alabama Regional Science and Engineering Fair.



Qainat Muhammad was awarded best physiology project for her research on “Blast from the Past: Low Fat vs. Full Fat Foods.” She is pictured with her teacher **Elizabeth Triplett**.



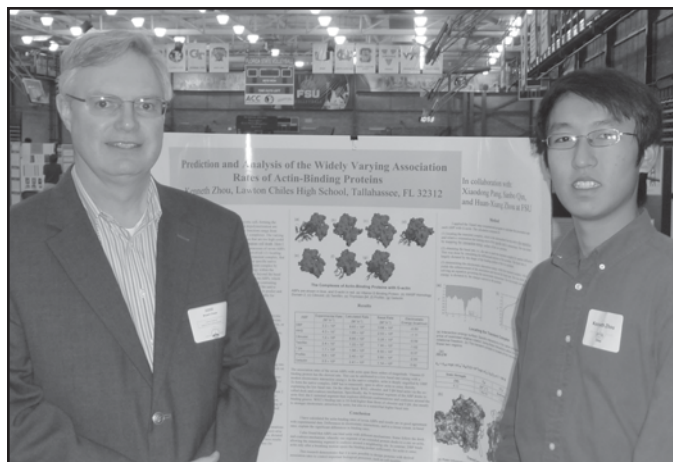
“Quick Math” project presented by **Gisele Sampayo** received the best physiology award. She is pictured here with her teacher **Sandra Morfit**.



“The Antioxidant Curcumin: “Cure”-cumin or Not?” project by **Claudia Gaither** received the best physiology award. She is pictured with teacher **Amy Johnson**.



APS members across the US and in Alaska for local science fairs. In 2012 we had 34 requests for awards.



“Prediction and Analysis of the Widely Varying Association Rates of Actin-Binding Proteins” research presented by Kenneth Zhou was awarded best physiology project by APS member Bryant Chase.



APS member Lisa Harrison-Bernard awarded Victoria Shields for her project “What type of bag will preserve fruit for the longest amount of time? Will it be a clear plastic bag, a brown paper bag, a green bag, a black garbage bag, or a mesh bag?”

Science Policy

Budget Control Measure Threatens Research

Federal spending caps established in the Budget Control Act (BCA) of 2011 pose a significant threat to domestic spending programs, including research supported by the National Institutes of Health. If Congress fails to conform to the spending caps in the BCA, automatic cuts of approximately 9.1 percent would go into effect in January of 2013. This process, known as sequestration, would devastate federally funded research programs by slashing already strained budgets.

A report (<http://www.faseb.org/Portals/0/PDFs/opa/4.16.12%20Sequestration%20and%20the%20NIH%20pdf.pdf>) by FASEB estimates that because certain budget categories at the NIH are largely made up of federal salaries and could not be reduced in the short

term as required by the BCA, the cuts would disproportionately affect the extramural budget. FASEB calculates that the extramural budget would be cut by approximately 11.1%. The FASEB report goes on the detail the potential effects the cuts would have in each state, as well as the long-term negative consequences for the scientific workforce.

The APS joins FASEB in urging Congress to avoid the cuts that would be triggered by sequestration, and provide the NIH with \$32 billion in FY 2013.

The entire FASEB report can be viewed at <http://bit.ly/J6vZGj>.

APS Members Send Messages to Congress

During a one-month period from February to March 2012, an email alert went to all APS members in the United States asking them to contact their Members of Congress in support of funding for the National Institutes of Health. Some 762 APS members responded—about 12.6% of US members. This produced a total of 2,286 email messages to Congress: 766 to Representatives and 1,520 to Senators.

As Congress considers how to allocate scarce federal dollars, it is critical for every voter to tell them about the importance of NIH funding. To contact your Members of Congress visit: <http://bit.ly/Hh4wil>. ❖

Insights Into A Successful Dual Scientific Career and Partnership

Ann and Derek Schreihofers
Univ. of North Texas Health Sciences Center

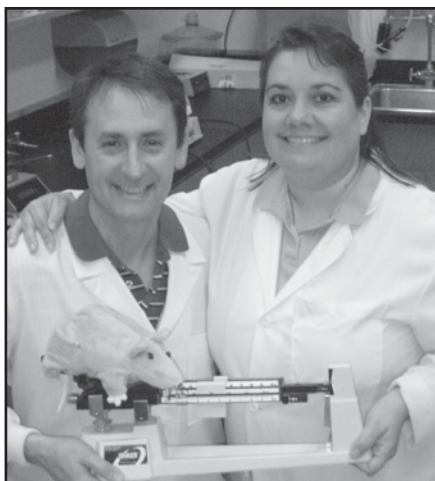
We were pleased to be asked to write about our experiences as a dual-career scientist couple, although analyzing how one manages such a feat is almost as daunting as living it. Everyone has a unique story, and our writings reflect our experiences. That said, we have come to appreciate some universal truths to successfully managing the complex lifestyle of a dual-career family. For those of you too busy to read this entire article, we leave you with these thoughts. Even the most successful, seemingly unstressed couples face challenges that make them wonder how or why they got themselves into their state of affairs, but it is the immense rewards of being a scientist and family member that make the occasional chaos worthwhile.

What Are Keys to Maintaining a Successful Partnership for a Dual-career Family?

Both partners must begin with a clear understanding that having two careers and a family requires a partnership. Whatever the plan, both partners have to be fully on board. Open and brutally honest communication is essential. Compromise does not result in winners and losers but what is in the best long-term interest of the partnership or family. The key is that both partners feel that they get equitable consideration in the long run. Life is complicated and circumstances change, but as long as you are talking about it you are most of the way there.

How Does This Partnership Work Practically?

Divide and conquer. There is no such thing as man's work or women's work when managing a family and two careers. Even without children, managing a household takes effort that must be shared. If tasks are clearly allocated, there is no second-guessing or passing the buck. Each partner should take on tasks they like and ones they like less. In addition, sanity requires periodic guilt-free "me time" that needs to be ensured for each partner. Maintain a master calendar with events, deadlines, and trips and highlight the hard deadlines. Keep surprises to a minimum, knowing that unexpected issues will arise. Another strategy is to buy as much help as you can afford. Time is our most precious



Derek and Ann Schreihofers

resource, and dual-career couples have the benefit of more income. Hiring someone to mow the lawn or clean the house allows you to spend more time with your work, children, and partner.

How Do You Maintain Equality?

You don't, at least not every day. The key is that each partner gives and takes fairly over time. When a work deadline or time-consuming task is approaching, the relative contributions of each partner may temporarily shift on the home front. It should not always be the same partner, unless this is a mutually agreeable plan. Being fair to your partner and his/her needs is critical. Each partner's goals, wants, and concerns need to be expressed regularly, because these are not fixed commodities. Life's unexpected paths may require a reconsideration of each partner's issues. Consistent and open communications go a long way to minimize conflicts. If you don't speak up, you cannot assume your partner will know if there is an issue to be resolved. Do not fear conflict. Things get missed, and tasks get forgotten or overlooked. It is reasonable to get upset and express your feelings. It is not constructive to retaliate or hold a grudge. Forgiveness and understanding can go a long way to strengthening a partnership.

How Do You Stay Connected as a Couple or a Family?

Dual-career couples with families face numerous commitments. However, a fulfilling life requires periodic levity.

Reward yourselves for your hard work in managing busy schedules. Enrich your partnership by going out as a couple and by celebrating each other's accomplishments. Also set aside special times for your family. We have "family movie nights" complete with treats and late bed times and "family game nights" where the television is off and the board games come out. We plan periodic outings to museums, zoos, or vacation spots. It gives the family something to look forward to and shows your kids they are part of your plans, not something that gets in the way of your plans.

Life is short and time goes much too fast. Taking a moment to remind someone that they are important or checking in with them about their day makes all the difference. Use all available forms of communication that work for you and yours: heart-to-heart talks, texting, emails, phone calls, Facebook messages, Skype, notes left in a sack lunch, etc. With the advent of electronic communications you can stay well connected even when you are not together.

What Are Good Strategies to Find Two Jobs?

First, you must be honest with yourself and each other with regard to goals and abilities. You may have different ambitions or want to move at a different pace. Having partners at different career stages also impacts strategy. However, it would be short sighted to choose a situation that was great for one but unsupportive for the other regardless of career stage. This scenario sets up problems for career progression that will haunt you later. Finding two jobs means a longer search, more applications, and more negotiations. Our approach is "don't push your partner on a potential employer, but don't hide them either." Dual scientific career couples are more and more common, and negotiations will go more positively if a potential employer knows your deal-breaking issues up front. However, you need to be realistic about the viability of each of your candidacies and figure out how to optimize your dual package in a way that will be most attractive for you and your potential employer and institution. If your strategy includes positions at different institutions, consider large-

er metropolitan areas. There is a better chance of finding good situations for both, and if one job doesn't work out there are more options for new opportunities without having to move.

How Can You Be Seen as Two Individuals Instead of Two for the Price of One?

Even if you enjoy working together, make unique contributions, particularly at the start of your careers. Make sure your primary lines of work are diverse enough that you will not be competing with each other for positions, grants, or resources. Using different methodological approaches can help distinguish you and provide potential to help each other. Develop your own scientific networks and attend different meetings if possible. Avoid publishing together until you are established as independent investigators. You can unofficially help each other without putting a label on it. Finally, contribute to different aspects of your scientific community. Serve on different committees, teach different classes, and collaborate with different colleagues. If you attend the same faculty meetings, don't vote as a block.

How Do You Decide When to Start a Family?

The easiest answer is, when both of you are ready. Starting a family is wonderfully rewarding, but it is an enormous commitment. If both partners are not fully invested, this is a recipe for failure. There is no magic period of career stage, and it may not always happen when you plan it. You need to acknowledge that there are only so many hours in the day and that adding a new little bundle of time commitment will impact your job productivity. This is the time to assess your day to improve efficiency and perhaps minimize time sinks that are not constructive. It is okay to be apprehensive about adding a person to your already busy dual-career life. If you aren't, you haven't thought about it enough! That said, apprehension comes with motivation to make needed changes. You cannot have it all, but you can have parts of it all, albeit at a slightly slower pace. If you are ready, don't wait. We hear people saying things like, "I want to wait until I have tenure." Maybe this was more feasible when the average age for first time grantees was 34 back in 1980, but today the average age of first R01 awardees is

42 years of age and institutions are delaying tenure decisions. Biology will not wait for your career to reach benchmarks. Too many career couples have waited only to find it was too late to have children. If a family is a priority for you, then make it a priority. The rest will sort itself out.

How Do You Identify a Family Friendly Workplace?

Ideally, this is an issue you investigate before taking a job, but it may not occur to people who are not thinking of starting a family when they take a position. There are tangible considerations like maternity leave (not required by law or even available in many places), on-site day care, and published policies on family leave, but these are not as important as the environment. Is the workplace culture driven by the clock or the bottom line? Being at important meetings, teaching classes, training lab personnel, getting grants, and publishing are the keys to academic success. Face time with your colleagues is very important, but you do not have to be in your office or lab for set hours every day to accomplish your career benchmarks. A fabulous benefit of this career is the flexibility that comes with a bottom-line priority and the ability to do many job-related tasks from a computer. Make sure you know what the expectations are from those who matter, specifically how key people define successful faculty members. Examine whether women with families are employed in a position comparable to yours and whether they have been promoted in a timely manner. This is a good barometer of a family friendly work place. Additionally, are there potential colleagues with significant childcare responsibilities? There is strength in numbers. Having more people around who understand what you are going through increases the probability of accommodation for your life choices.

How Do You Prioritize the Many Facets of Your Work and Home Life?

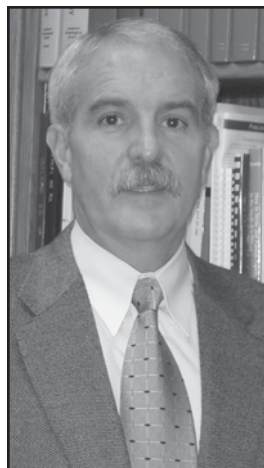
Identify the deal breakers for your life plan. These will shape the decisions you make for your home life and work life. For example, we made a decision early on that we would not live apart geographically for the sake of work. Identify key factors needed to maintain your job/professional life.

Make critical face time and contribute substantially to workplace and your profession. Set annual goals for submissions of papers and grants, etc. Participate in a scientific society and attend meetings and establish a broad and supportive network. Many aspects of our jobs are made feasible by having networks. Identify key factors to maintain your home life. With no kids: maintaining the home, the finances, the meals, family ties/friends. With kids: keeping them fed, safe, loved, on-track, and stimulated. Add in the extras for each arena when time and energy permit. It is easy to get in the habit of treating everything as important. Separate out the critical tasks, and add in the extras when you can.

In closing, remember to keep your sense of humor—smiles are contagious and you cannot be afraid to laugh at yourself. Confess your sins and move on. Remember to breathe and pace yourself for the long haul. Keep in mind that those who make it look easy also experience the ups and downs of a dual scientific career family. ♦

Ann Schreihofers is an Associate Professor in the Department of Integrative Physiology and Derek Schreihofers is a Research Associate Professor in the Department of Pharmacology & Neuroscience at the Univ. of North Texas Health Science Center. Both received their PhDs in neuroscience at the Univ. of Pittsburgh before accepting positions as Associate Professors at the Medical College of Georgia in 2001. They moved to the Univ. of North Texas in 2011. Ann studies how the brain regulates autonomic control of the cardiovascular system in health and disease states. Recently she has investigated how common conditions, such as obesity and exposure to chronic intermittent hypoxia (as a model for the intermittent hypoxemia of obstructive sleep apnea), alter sensory inputs to the brain, function of cardiovascular regulatory neurons of the brain stem, and sympathetic nerve activity to cardiovascular targets. Derek studies how soy compounds protect the brain from injury due to stroke in rodents by examining diet- and hormonally-induced changes in gene expression in relation to neuroprotection from cerebrovascular disease.

Philip Clifford Receives NPA's 2012 Distinguished Service Award



Philip S. Clifford

Associate Dean for Postdoctoral Education and professor of Anesthesiology and Physiology at the Medical College of Wisconsin (MCW). As Associate Dean, he oversees professional and career development for postdoctoral scholars and graduate students. His contributions at MCW have led to *The Scientist* naming the institution as one of the Best Places to Work for Postdocs for the past three years.

Clifford's work has expanded beyond MCW to influence the postdoctoral community on the national level. He regularly provides practical career planning workshops at national meetings and regional postdoctoral conferences and serves as a guest speaker at numerous local institutions. He is widely recognized in the postdoctoral community for his dedication and active involvement toward the betterment of the postdoctoral experience. He has worked closely with the APS Trainee Advisory Committee to develop programs to enhance the postdoctoral experience.

He served as co-author of the Individual Development Plan (IDP) for postdoctoral students, developed by the FASEB's Science Policy Committee. The IDP delineates a process designed to assist with the identification of long-term career objectives and short-term goals and establishes a framework for communication between postdoctoral students and their faculty mentors. Clifford has also worked with the Postdoctorate Committee of the Association of American Medical Colleges (AAMC) Graduate Research,

Education, and Training (GREAT) Group to co-author *The Compact Between Postdoctoral Appointees and Their Mentors*.

Ed W. Childs is currently Chairman,

at Morehouse School of Medicine, Department of Surgery Atlanta, GA. Previously, Childs was at Texas A&M Univ. Health Sciences Center, Department of Surgery, Temple, TX.

Kirk Wendell Evanson has taken a Postdoctoral Trainee position in the Department of Physiology at the Univ. of Tennessee Health Science Center, Memphis, TN. Prior to this move, Evanson was a Student in the Department of Health Kinesiology and Recreation Dance at the Univ. of Arkansas.

Samuel H. Frey is now Miller Family Chair in Cognitive Neuroscience Professor, Dept. of Psychological Sciences Director at the Univ. of Missouri, Columbia. Previously, Frey was a Professor in the Department of Psychology at the Univ. of Oregon, Eugene.

Hans Gregersen is now Director Professor in the SDC Department at Aarhus Univ., Denmark. Prior to this move, Gregersen was Research Director in Center of Visceral Biomechanics and Pain at Aalborg Hospital Science & Innovation Center, Aalborg, Denmark.

Milton H. Hamblin has taken a Professor position at Tulane School of Medicine, Department of Pharmacology, New Orleans, LA. Prior to this position, Hamblin was at the Univ. of Michigan, Dept Internal Med. Div. Cardiovascular Medicine, Ann Arbor.

Nicholas James Hudson is now Deputy Head of School and Professor of Innovation in Medical Education & Rural Medicine, Univ. of New England, Armidale, Australia. Prior to this move, Hudson was at Commonwealth Science and Industrial Research Organization in Brisbane, Australia.

Simon J. Lees is presently a Assistant Professor of Physiology at Northern Ontario School of Medicine Medical Sciences Division, Thunder bay, ON, Canada. Lees had been an Assistant Professor at Colorado State

Univ., Department of Health and Exercise Science, Fort Collins, CO.

Jon E. Mogford is now the Associate Vice Chancellor for Strategic Initiatives, Texas A&M Univ. System, College Station, TX. Previously, Mogford was at DARPA-Defense Sciences Office, Arlington, VA.

Michael Paffett is now a Postdoctoral Research Fellow in the Division of Pharmaceutical Sciences, Univ. of New Mexico College of Pharmacy, Albuquerque. Previously Paffett was a Postdoctoral Fellow at Lovelace Respiratory Research Institute in Albuquerque, NM.

Reza Sharif-Naeini is now an Assistant Professor in the Department of Physiology & Cell Information Systems Group, McGill Univ., Montreal, Quebec, Canada. Prior to this move, Sharif-Naeini was a Postdoctoral Fellow in the mission Campus at the Univ. of California, San Francisco, CA.

Nelson Spruston is currently Scientific Program Director and Lab Head at Howard Hughes Medical Institute Department of Janelia Farm Research, Ashburn VA. Previously Spruston was at Northwestern Univ. Department of Neurobiology & Physiology, Evanston, IL

Dandan Sun is presently Professor at Univ. of Pittsburgh, Department Neurology, Pittsburgh, PA. Prior to this position, Sun was at the Univ. of Wisconsin-Madison Department Neurology, Madison, WI.

Xenia T. Tigno is now the Program Officer in the National Institute of Nursing Research at the NIH, Bethesda, MD. Prior to the move Tigno was Associate Professor in the Department of Molecular Pharmacology and Physiology at the Univ. South Florida, College of Medicine, Tampa, FL.

Mack H. Wu, is presently a Professor of Surgery and Molecular Medicine at the Univ. of South Florida-Morsani College of Medicine, Department of Surgery, Tampa, FL. Prior to this position Wu was Assistant Professor at the Univ. of California, Davis, Department of Surgery, Sacramento, CA. ❖

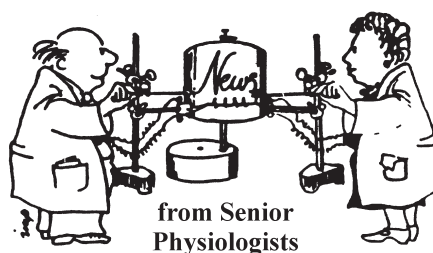
Letter to Martin Frank

Donald B. Jennings writes: "When I was in High School, I initially thought of doing Engineering Physics. However, I did first aid for the football team and the coaches suggested that I should do Medicine. In Sept. 1951 I entered the six-year Medical program at Queen's University in Kingston, Ontario, Canada. In the summers of 3rd and 4th years of Medicine I worked in the Laboratory of Dr. Donald Hatcher (Hatch) of the Department of Physiology. I measured skin (paw) and muscle (thigh) blood flow of anesthetized dogs employing plethysmography during low-dose infusions of adrenaline and noradrenaline and using smoked paper and a kymograph.

"At the end of 5th year (1956), Dr. Garfield Kelly, Director of the Cardio-Pulmonary Laboratory at Kingston General Hospital, and Dr. Hatcher arranged for me to visit the Pulmonary Function Laboratory of Dr. Julius Comroe, Jr. at the University of Pennsylvania in Philadelphia. There I learned basic tests which I subsequently established in the Kingston General Hospital (including nitrogen washout test for the FRC and the single breath N₂ test for airway gas distribution). I was used as a subject in Dr. Dubois's original plethysmograph and Dr. John Rankin used me as a subject in establishing the single breath Diffusing Capacity. Bob Forster and Norman Staub were in the group at that time.

"After graduating in medicine in 1957, I did a rotating internship and then a year in Medicine at the Montreal General Hospital. Subsequently, I returned to Queen's and completed the M.Sc.(Med) and PhD with Dr. Hatcher in studies of the humeral regulation of cardiac output during chronic anaemia in anesthetized dogs and its relation to blood erythropoietin levels.

"I was privileged in 1962 to be offered a position as Fellow by Dr. Comroe, Jr. at the Cardiovascular Research Institute of the University of



California in San Francisco. There I worked under Dr. Malcolm McIlroy in the Exercise Laboratory and worked with Drs. Jay Nadel and Warren Gold in the Pulmonary Function Laboratory. I also served as a subject for Dr. John Severinghaus on one of his high altitude expeditions to the White Mountain Laboratory and contributed CSF and arterial blood. From my graduate and postdoctoral experiences I was convinced that studies of cardiorespiratory adaptations required a conscious animal model unimpaired by anaesthetic agents. I also appreciated the limitations and complications of using humans as experimental subjects.

"Returning to Queen's University in July 1964 as a Senior Fellow of the Canadian Heart Foundation and a Faculty appointment in the Department of Physiology, I established a conscious dog model for chronic studies in which respiration was measured through an endotracheal tube in a chronic tracheostoma, arterial blood obtained from an exteriorized carotid artery and in some studies cisternal CSF was obtained via an implanted cannula system. Right heart catheterization was performed via an external jugular vein. I brought back with me the blood gas measurement system developed in San Francisco. We established an environmental chamber for studies of chronic adaptations primarily at first related to chronic hypercapnia and metabolic acidosis. Studies also encompassed the environmental effects of temperature and the dietary effects of NaCl on respiratory control. We became interested in the role of cir-

cumventricular organs, and Angiotensin II and AVP in respiratory control.

"**Our most significant contribution** was to demonstrate that the difference between strong cations and strong anions (the strong ion difference of Peter Stewart) in the CSF predicted the ventilatory regulation of PaCO₂ in the conscious dog. The effect of CO₂ on respiratory control was independent of the strong ion difference (1). **We also demonstrated** in conscious dogs that angiotensin (appeared to be a brain angiotensin stimulated via the carotid chemoreceptors) contributed to the respiratory and acid-base adaptation to prolonged hypoxia (2).

(1) Jennings, D.B. **Invited Review:** Frontiers in Respiratory Physiology. Breathing for protein function and H⁺ homeostasis. *Respir. Physiol.* 93: 1-12, 1993.

(2) Heitman, S. J. and Jennings, D.B. Angiotensin II modulates respiratory and acid-base responses to prolonged hypoxia in conscious dogs. *Am. J. Physiol.* 275 (Regulatory, Integrative and Comp. Physiol. 44): R390-R399, 1998.

"With my graduate students, I regularly attended the annual meetings of the APS. We were nurtured by the stimulating discussions with colleagues and the excellent scientific meetings. My reflections for potential graduate students and postdoctoral fellows are that if you choose to follow a scientific career, you will have a long training period with hopefully a faculty position at the end. You need to have a tolerant and creative partner to survive relatively modest financial support and long hours away from the family. You will need to cheerfully endure the constant criticism of colleagues to publish and of granting committees when raising research funds. However, the exciting challenges of the experiment, the stimulating interaction with graduate students, trainees, technicians and colleagues results in a wonderful and fulfilling career. ❖

The Wine Wizard

Peter Wagner

Hi all: here are some nice bottles in which to drown your tax woes. I just hope you can find them. Remember the internet and the local bottle shop both are ways to find wines you may not see in the supermarkets. Many wines can now be shipped between states. Here's an idea: Did you pick them up when you came to the EB meeting in April. Coulda packed them in your luggage in styrofoam lined boxes.

Whites:

2009 Landmark Chardonnay "Overlook" Sonoma, CA \$20. Yes, a chardonnay for \$20 in this column!! This is the new style: a nose of citrus and baked apple and slight vanilla. Forward clean apple and lemon fruit, excellent, crisp acid, and little oak. Nice viscosity. A total contrast to the big buttery oaky style of yesteryear.

2010 Franciscan Chardonnay, Napa Valley \$12. Yes, a second chardonnay in one column!! This is for those of you who still yearn for the big buttery oaky style of yesteryear. Butterscotch and tropical fruit on the nose and palate. Clean, viscous, big, buttery, an oak bomb with decent citrus/tropical fruit.

2010 L'Oliveto Chardonnay, Russian River \$15. *Three* in one column?? Must have lost my marbles. The nose took a while to open, but the palate was right there from the start—clean and crisp, apply, with low oak. Back to the new style, with good acidity and very little oak.

2010 Carmel Road Chardonnay, Monterey \$12. *Another* damn chard. This none has a forward, clean, fresh tropical fruit nose. The palate is complex and creamy with lychee, citrus, apricot and tropical fruit. Good acid, not too heavy and light oak.

2011 Crios Torrontes, Mendoza, Argentina \$10. This is typical of the Torrontes grape with a very forward lychee/raisiny nose, making you think a dessert wine is in the glass. But there



Peter Wagner

is a clean lemony dry palate with very good acidity. This wine has a rich finish, not at all hard or lean as some tend to be.

Red wines

Alas! Cheap GOOD reds are harder and harder to find. Trust me, I will keep looking. In the meantime.....

2009 Lucienne Pinot Noir, Santa Lucia Highlands, Doctor's vineyard \$20. Ever since that (@#\$\$^&*) movie, Pinot has been disproportionately expensive. Surprise: here is a terrific Pinot at, for this grape, a great price. This is a special occasion wine. The nose is forward with lots of cherry fruit, and sweet oak and vanilla. None of that @#\$\$^&* pickle barrel character from the oak and stems, just lush fruit. The palate is lush and viscous and varietal. There is a little tannin and good acid for structure; there is great balance and considerable depth and length.

2009 Bonneau Pinot Noir, Sonoma Coast, Sangiacomo vineyard \$23. Lots of cherry fruit, slight oak char on the nose. The palate has smooth, lush varietal cherry fruit, light oak, slight oak char, good acid, some earth and cola,

and is clean and balanced.

2008 Bonneau Cabernet Sauvignon, Sonoma, \$28. yes, expensive. But better than more notorious wines costing two and three times as much. This has very deep color, and a tight nose that took a while to open (which is actually a good thing). This is a big, extracted wine with strong but balanced tannins and great dark berry fruit. There are dried herbs, earthiness, good acid, and excellent balance and length. There is evident American oak (dill), but this is not over the top. Special occasion wine.

2009 Sebastiani Cabernet Sauvignon, Sonoma \$13. About half the price and half as good as the Bonneau, but still a very nice wine. The nose has lots of dark cherry and some dill and a hint of yeast. There is forward red/dark cherry fruit, some dill, good acid and medium soft tannins.

2007 Benziger Merlot, Sonoma \$14. This wine smells and tastes quite young. It has a forward, fresh, slightly grapey nose with a little green pepper. On the palate, there is lots of red/dark cherry fruit; some dill; soft tannin, and slight green pepper. It is a fairly light style wine. It is good, not great.

2010 R Cabernet Franc, Clarksburg, Salman vineyard \$19. While a bit costly, I wanted to mention this if you wanted to try a rarely bottled grape variety (usually used as a blending wine in Bordeaux reds). This is typical of the grape—floral red cherry and slight stemmy herbal green characters on the nose and palate; fairly light in style, clean, not too tannic, with bright acid and a touch of black pepper.

These should keep you going for a while—if you can find them. Hope so. I did. ♦

Faculty Position

Department Chair: Pharmacological and Physiological Science:

Saint Louis Univ., a Catholic Jesuit institution dedicated to education, research, service and health care, has initiated a national search for the next William Beaumont Professor and Chair of the Department of Pharmacological and Physiological Science (<http://med-school.slu.edu/pharmphys>). The successful applicant will have a PhD or MD degree, a strong record of academic achievement in cellular and molecular mechanisms of biological processes, a sustained record of extramural research funding, administrative leadership, experience in both graduate student and medical student education, and enthusiasm for mentoring junior faculty. Interested candidates should submit a cover letter, curriculum vitae and a description of their leadership vision to <http://jobs.slu.edu> (Req. ID# 20120062). Letters of nomination may be sent by email to Enrico Di Cera, M.D., Chair of the Search Committee (enrico@slu.edu). Saint Louis Univ. is an Affirmative Action, Equal Opportunity Employer, and encourages nominations and applications of women and minorities.

Postdoctoral Positions

Postdoctoral Fellowship: An NIH-funded postdoctoral position in human cardiovascular physiology is available in the Bruno Balke Biodynamics Laboratory at the Univ. of Wisconsin, Madison, in the Department of Kinesiology. We investigate neurovascular mechanisms controlling blood flow in the skeletal muscle or cerebral circulations during acute stressors like exercise and hypoxia. A main research question is how obesity or metabolic syndrome alters these mechanisms, and how lifestyle changes can influence blood flow control. Fellows will have many opportunities to develop their independence, including: 1) the free-

dom to explore a variety of techniques (state-of-the-art medical imaging, Doppler ultrasound of arm and leg, plethysmography, Transcranial Doppler, Microneurography, MRI) including invasive approaches (arterial drug infusions, IV blood sampling, muscle biopsies, etc); 2) access to varied forms of exercise (arm, leg, whole body); 3) access to clinical populations (obese, metabolic syndrome, aging, diabetes prevention program); 4) opportunities to teach lectures and labs at the undergraduate and graduate level; and 5) ability to mentor undergraduate, masters, and PhD level students. Outstanding fellows will be expected to fully participate in study design, implementation and statistical analysis, in addition manuscript and grant writing. We are searching for a creative fellow who is willing to apply our approaches to answer innovative questions. In addition to a focus on outstanding ethical, mechanistic human physiology research, we encourage trainees to explore career options and work to find a healthy personal and professional life balance. The Biodynamics Laboratory offers a rich intellectual environment of three exercise physiology labs, complemented by superb UW resources including: the UW Cardiovascular Research Center (<http://cvrc.wisc.edu/>), the Respiratory Neurobiology Training Program (<http://www.vetmed.wisc.edu/cbs/mitchell/rntp/index.htm>), career development resources, and collaborative opportunities with PIs in other cardiopulmonary research labs, and Medical Physics (<http://www.med-physics.wisc.edu/>). More information on the Schrage Lab can be found at <http://kinesiology.education.wisc.edu/kinesiology/research/laboratories/bruno-balke-biodynamics-lab/schrage-lab>. Applicants should hold a doctoral degree (MD, DVM, or PhD in physiology or closely related field-eg kinesiology). Some experience with human subjects and biochemical approaches is desirable, but most important is the intellectual drive to master the best tools and approaches to answer novel questions. Review of applications starts immediately until position is filled. We

expect a minimum two-year commitment with the possibility of further support. We encourage women and minorities to apply [AA/EOE]. Salary and benefits will be commensurate with experience and in accordance with NIH policies. Please send a letter of application indicating your research interests and career goals, along with a curriculum vitae, and the names and contact information of two references to: William G Schrage, PhD, wschrage@education.wisc.edu

Postdoctoral Fellow Position:

Applications are being accepted immediately for a postdoctoral position in the laboratory of Dr. Juanita Merchant, MD, PhD at the Univ. of Michigan, Ann Arbor. The lab focuses on chronic inflammation in the gastrointestinal tract leading to cancer (focus on gastric or colon). A variety of techniques are used, including cellular immunology, cancer and molecular biology, microbiology and animal physiology. One project focuses on the role of sonic hedgehog in chronic gastric inflammation leading to gastric cancer, whereas another project focuses on the role of the tumor suppressor menin in chromatin modulation of gastrin gastrin gene expression leading to the development of gastrinomas. A third project focuses on the role of transcription factor ZBP-89 (ZNF148) in serotonin b production and innate mucosal defense. Successful applicants will have recently completed their PhD or MD and should have experience in molecular biology and microbiology. Knowledge of transgenic animal physiology is also highly desirable. Openings in the lab will be available IMMEDIATELY. For further information about the projects and past publication in the area please view the lab website at: <http://www.sitemaker.umich.edu/merchant.lab>. To apply for a position contact Dr. Merchant by e-mail at: merchanj@umich.edu. Please attach your CV and a cover letter with your contact information and the names of three references. ❖

Current Calls for Papers

Physiological Genomics

Mitochondrial Metabolism

NextGen Sequencing Technology-Based Dissection of Physiological Systems

Technology Development for Physiological Genomics

Understanding the Mechanisms of Disease Using Biomarkers
(Submission deadline: June 1, 2012)

American Journal of Physiology—Gastrointestinal and Liver Physiology

Physiology and GI Cancer

Intestinal Stem Cells in GI Physiology and Disease

Innovative and Emerging Technologies in GI Physiology and Disease

American Journal of Physiology—Renal Physiology

Aldosterone and Epithelial Na⁺ Channels
(Submission deadline: July 1, 2012)

Journal of Applied Physiology

Muscle Dysfunction in COPD
(Submission deadline: July 1, 2012)

Mechanisms of Sympathetic Regulation in Cardiovascular Disease
(Submission deadline: July 1, 2012)

Commentaries on Point:Counterpoint and Viewpoint Articles

Advances in Physiology Education

Teaching and Learning of Professional Ethics

American Journal of Physiology-Lung Cellular and Molecular Physiology

Bioengineering the Lung: Molecules, Materials, Matrix, Morphology, and Mechanics

For a complete list of current Calls for Papers, visit *The Physiologist* website.

Meetings & Congresses

July 2-5

Physiology 2012, Edinburgh, UK. *Information:* The Physiological Society, Peer House, Verulam Street, London, WC1X 8LZ. Tel.: +44 (0) 207 269 5725; Email: events@physoc.org; Internet: <http://www.physoc.org/p12/>.

July 2-6

Joint EMBL-EBI/Wellcome Trust Course: Resources for Computational Drug Discovery, Cambridge, UK. *Information:* Internet: https://registration.hinxton.wellcome.ac.uk/display_info.asp?id=288.

July 5-7

The Seventh 2012 International Symposium on Cough, London, UK. *Information:* Karina Dixon, National Heart & Lung Institute, Imperial College, Dovehouse St., London SW3 6LY. Email: k.dixon@imperial.ac.uk.

July 7-10, 2012, Omaha, NE

2012 APS Conference: Autonomic Regulation of Cardiovascular Function in Health and Disease. *Information:* <http://www.the-aps.org/mm/Conferences/APS-Conferences/2012-Conferences/Autonomic-Regulation-of-Cardiovascular-Function-in-Health-and-Disease>.

July 12-13

60 Years of Hodgkin and Huxley, Cambridge, UK. *Information:* The Physiological Society, Peer House, Verulam Street, London, WC1X 8LZ. Tel.: +44 (0) 207 269 5725; Email: events@physoc.org; Internet: <http://www.physoc.org/handh/>.

July 17-18

ASBMR Topical Meeting on Bone and Skeletal Muscle Interactions, Kansas City, MO. *Information:* ASBMR Business Office. Tel.: 202-367-1161; Email: asbmr@asbmr.org; Internet: <http://www.asbmr.org/Meetings/TopicalMeetings.aspx>.

July 27-29

7th Postgraduate Course on Gastrointestinal Motility and Neurogastroenterology in Clinical Practice and Young Investigator Forum, Chicago, IL. *Information:* American Neurogastroenterology and Motility Society, 45685 Harmony Lane, Belleville, MI 48111. Tel.: +1 734-699-1130; Fax: +1 734-699-1136; Internet: <http://www.motilitysociety.org/>.

July 31-August 2

2012 International Human Cadaver Prosection Program, Gary, IN. *Information:* Internet: <http://iusm-nw.medicine.iu.edu/research-programs/talarico-lab/cadaver>.

August 17-20

XII-th Oxford Conference "Breathing, Emotion and Evolution", Almelo, The Netherlands. *Information:* Internet: <http://www.oxford2012.nl/>.

October 10-13, 2012, Westminster, CO

APS Intersociety Meeting: Integrative Biology of Exercise VI. *Information:* <http://www.the-aps.org/mm/Conferences/APS-Conferences/2012-Conferences/Integrative-Biology-of-Exercise>.

2012 APS Conference: Autonomic Regulation of Cardiovascular Function in Health and Disease



Date & Location

July 7-10, 2012
Hilton Omaha
Omaha, Nebraska (USA)

Deadlines

Abstract: March 30, 2012
Advance Registration: June 8, 2012
Housing: June 9, 2012

Preliminary Program

- Angiotensin Converting Enzyme 2 and ANG (1-7): Roles in Central Hypertension
- Oxidative Stress and Sympathetic Regulation
- Mechanisms of Baro and Chemoreceptor Sensory Transduction: A Link to Sympatho-excitation in Disease
- Sympatho-excitatory Mechanisms in Cardiovascular Disease
- Sympathetic Mechanisms in Human Hypertension
- The "Gladiator" Session
- Nitric Oxide and Sympatho-vagal Regulation
- Device Therapy for Hypertension and Heart Failure

For more information or to register, visit: <http://bit.ly/AutoConference>



2012 APS Intersociety Meeting: The Integrative Biology of Exercise VI



Date & Location

October 10-13, 2012
Westin Westminster Hotel
Westminster, Colorado (USA)

Deadlines

Abstract: June 20, 2012
Advance Registration: Sept. 5, 2012
Housing: Sept. 18, 2012

Preliminary Program

- Integrating Human "Omics" to the Molecular Physiology of Exercise
- Personalized Exercise Prescription Based Upon Integrative Biology
- Mechanisms Behind Adaptations to Physical Activity/Inactivity
- Acetylation: Linking Changes in NAD to Metabolism and Growth
- Cardiovascular Benefits of Exercise: Insight from Animal Studies
- Cardiovascular Benefits of Exercise: Insight from Human Studies
- Fit, Fat and Lean Liver: Exercise Adaptations in Non-traditional Tissues
- Skeletal Muscle Lipid Droplet Biology in Exercise and Disease
- Physical Activity is Necessary for Optimal Brain Function
- The Impact of Heat Shock Protein Expression on Muscle Metabolism, Exercise Capacity and Disease Prevention
- Hot Topics in Exercise Physiology
- Unified Cellular and Molecular Mechanism of Muscle Hypertrophy

For more information or to register, visit: <http://bit.ly/ExerciseConference>



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 100% Cotton, Adult Sizes only: S, M, L, XL, XXL, XXXL; Color: Black only



T-shirt

"I'm Alive! Thanks to Animal Research" High quality 50/50 blend (Colors: red and navy blue) Select Sizes Available



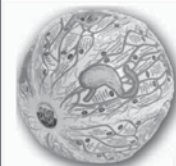
T-shirt

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Ceramic Mug

"I'm Alive! Thanks to Animal Research" Rich royal blue 11oz. ceramic mug with classic good looks.



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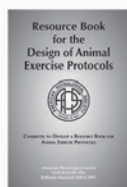
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Enjoy the symphonic suite *Body Notes* performed by the San Diego Chamber Orchestra at Copley Symphony Hall, San Diego, California, on April 5, 2005, as part of XXXV IUPS Congress.



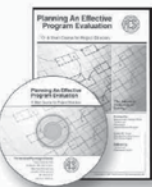
Women Life Scientists: Past, Present, and Future

Life sciences models for outreach to students. Increase student's exposure both to female science role models and to hands-on, inquiry approach and problem-solving science activities, as recommended by the National Science Education Standards. Modules drop easily into middle and high school life sciences curricula.



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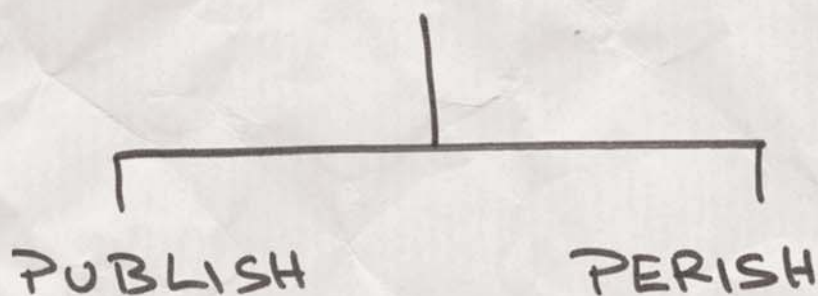
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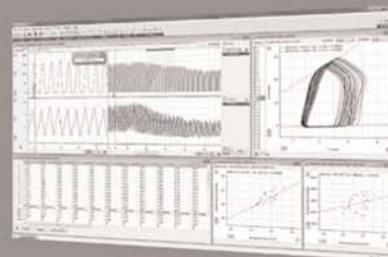


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