

**SONSOLES DE LACALLE, MD, PHD
500 KELTON AVE.
LOS ANGELES, CA 90024
310-985-9405**

March 9, 2012

Ms. Nancy Cook
Managing Director
Gyres International
P. O. Box 439
Oxford, MD 21654

Dear Ms. Cook:

Please accept this letter as a statement of my interest in the position of Dean, College of Science and Health at William Paterson University (as seen in The Chronicle of Higher Ed. online). This position is precisely the next step I want to take professionally, as it would allow me to contribute to shape the future of undergraduate education and work with a diverse student body. In my career, I have functioned within different academic communities in the roles of faculty and founding chair. I am comfortable with both internal management and external representation of an academic unit. Collectively, these past 20 years have provided me with a breadth of perspectives and understanding of organizational demands that contribute to my ability to be an effective member of this institution's leadership team. I believe my academic and research backgrounds have provided me with the knowledge and skills that are closely aligned with the requirements for this role.

I received my education from the University of Navarra, Spain. After completing my postdoctoral training at the University of Chicago (1990-1992), I became an Instructor (1992-1996) and Assistant Professor (1996-1999) in Neurology at Harvard Medical School, where I taught in the "Nervous System and Behavior" block, under the *New Pathway* curriculum, a problem-based learning approach. After 5 years at California State University Los Angeles, where I received tenure, I joined the faculty at the College of Science and Health, Charles Drew University of Medicine and Science, in the fall of 2004. I was attracted by the exciting challenge of starting a new department and developing a new program. Becoming the founding Chair of the Department of Biomedical Sciences in the College of Science and Health meant designing the curriculum, shepherding it through the approval process, recruiting students and faculty, performing assessment, etc. In this process I became intimately involved in the issues of diversity, access to education, motivation, and, in particular, the higher education of our underrepresented and minority populations. After serving as founding chair for the last six years, I have now returned fully to my research and teaching roles.

As department chair, I was solely responsible for the administration of the \$500K unrestricted budget received from the Dean, as well as several external sources of funding. My budget management style has always been based on transparency and strategic planning, as I am well aware that in order to provide relevant programs in a cost effective way, it is important to align the mission and the resources. In the last 5 years I also have been responsible for the administration of \$6 million received from the federal government to support both educational and research activities in the department. That funding generated additional \$2 million for the university in F&A. Over 40% of this funding came from grant applications

that I wrote and submitted. In my efforts at obtaining extramural funding I worked closely with our Grants and Contracts office, organized grant writing training workshops for the faculty, and participated in the design and implementation of policies that would contribute to a seamless operation of research programs. However, my success in obtaining funding came from providing individual encouragement and support, and finding the best way to ensure the success of each faculty member in grant writing.

As a member of the Charles Drew University's academic community, I have joined whole-heartedly in its mission to provide quality learning experiences to a very diverse student body. More specifically, within the College of Science and Health, I have worked hard to ensure the success of our programs in educating the next generation of health care researchers and providers that will reflect the community of health seekers. Most of the students at Charles Drew University are first generation college students, many of which need support and guidance as they become socialized into a higher education environment. While the challenges are often great, the rewards are outstanding when the outcomes exceed even the students' own expectations.

However, I first encountered the challenge of bringing diversity to the scientific workforce when I joined the faculty at California State University, Los Angeles. At that time I participated in outreach activities organized by the California Latino Medical Association, and was particularly inspired by the work of Prof. David Hayes-Bautista: during this time I learned about immigration, access to education, and to healthcare in California: sociological facts, demographics, success rate in educational pursuits, and other hard data. One consequence of this exposure was my involvement in the establishment of a grass-roots organization, Future Latino Doctors National Network, for which I serve as Vice-President, and through which I have facilitated the access of a dozen minority students to medical school. Learning about "scientific pipeline issues" in California has not been for me just a theoretical pursuit. While at California State University I obtained funding and directed a minority training grant for undergraduates, the COR program, funded by the National Institute of Mental Health (NIH). Among other successful outcomes, one of the participants, Maria Corona, a Mexican immigrant and currently a PhD candidate in Clinical Psychology, is portrayed in a *Los Angeles Times* article while participating in a science outreach event. Later on, when I moved to Charles Drew University, I directed a 5-year infrastructure grant (a RIMI program) also funded by NIH, which allowed me to develop the undergraduate program in biomedical sciences. Beginning in 2002 and until today, I participate as an *ad hoc* member of NIH study sections, on many occasions for the Minorities Opportunities in Research (MORE) program of NIGMS. In 2005 I was appointed to serve as standing member of the MARC subcommittee, a task that offered me substantial exposure to minority-serving programs throughout the country, both through grant review (the committee met three times per year) and through site visits (about three to four per year).

I love science, and I particularly enjoy bringing students (and the general public) into my lab, and into science in general. From the very beginning of my career I have fully incorporated students into my research group, resulting in 13 coauthored publications (two more are in preparation). Of the 36 students who have worked with me to date, more than half have been ethnic minorities, and 24 were women. Most (if not all) came from underprivileged backgrounds: low income communities, recent immigrants, first generation college students, English language learners, etc. I try to provide a model they can relate to, especially for those of Latino descent, as I *look like them and sound like them*. I encourage my students to join a local Toast Masters club, or take a creative writing class to improve their English and their ability to communicate. I share my experience as a woman who strives to balance family and work, and who understands the importance of family ties. I can also relate to their families, and through bilingual discussions am able to bring the world of school, science and research closer to them. In this way, families are better aware of how to help their children succeed, and realize that becoming a scientist or a doctor is also possible for them. These experiences have led me to seek NIH funding to teach premedical students and future scientists how to communicate with the public. A short video that illustrates some of this work has been published online (<http://www.scivee.tv/node/14801>) and other pieces are forthcoming.

As a systems neuroscientist, I seek to understand brain aging. My laboratory is studying structural plasticity and brain responses to selective cell loss, and the extent to which the aged nervous system reacts to signals that can promote synaptogenesis and neural regeneration. We have acquired extensive experience in this area in the last 15 years, supported by awards from the National Institute of Aging (NIH) to study compensatory sprouting of the basal forebrain cholinergic neurons. Recently, we have broadened our research focus by examining another sprouting phenomenon of neural cells -the process of denervation-reinnervation in muscle during aging, and whether myostatin, which has a potent hypotrophic effect in muscle, can activate motor unit sprouting during aging. While my interest in aging and age-related disorders remains the focus of this work, this project –which is also closely related to Kinesiology research interests- also represents a new direction, applying my expertise to new questions and a different area of the nervous system.

In all these endeavors, from curriculum development to assessment, from mentoring faculty to administering grants, to developing a research program, I strive to apply a team-work approach to solving issues, and maintain the value of achieving agreement or consensus, allowing proper time and process for buy-in from all stakeholders, a sure way of turning decisions into concrete policies/procedures and following them towards success. I am a firm believer in the value of going full circle: from decision making to implementation, to communication, execution and then evaluation of results.

I have attached here my full academic CV and a list of references. I look forward to further exploring with you the relevance of my experiences and skills, and their fit to the needs of William Paterson University.

Yours truly,

A handwritten signature in blue ink that reads "S de Lacalle". The signature is written in a cursive, flowing style. Below the signature is a horizontal blue line that underlines the name.

Sonsoles de Lacalle, MD, PhD

CURRICULUM VITAE

Date prepared: March 7, 2012

Name: Sonsoles de Lacalle

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1731 East 120th Street, Los Angeles, CA 90059
Phone: 323-563-5853; Fax: 323-563-5858

Email: sdelaca@cdrewu.edu (alternate: sdelacalle@mac.com)

Education:

1990 M.D., Ph.D., University of Navarra, Pamplona, Spain
1982 M.A., International Institute of Education, Rome, Italy

Postdoctoral Training:

1990-92 Research Fellow, University of Chicago: Department of Pharmacological and Physiological Sciences, Committee on Neurobiology (Dr. C. B. Saper laboratory).

Medical Licensure:

1992 European Community Certification
1990 Member of the College of Physicians of Navarra, Spain

Academic Appointments:

2004-pres. Associate Professor, Charles Drew University of Medicine and Science
2004-2010 Chair, Dept. Biomedical Sciences, Charles Drew University
1999-04 Assistant Professor of Biology, California State University Los Angeles (tenured)
1996-99 Assistant Professor in Neurology, Harvard Medical School
1992-96 Instructor in Neurology, Harvard Medical School
1990-92 Teaching Assistant in Neuroanatomy, University of Chicago Medical School
1987-90 Lecturer in Anatomy and Neurobiology, University of Navarra, Spain

Other Professional Positions:

1992-99 Staff Scientist, Department of Neurology, Beth Israel Deaconess Medical Center
1994 Visiting Professor, University of Navarra School of Medicine, Spain
1990-92 Fulbright Scholar, Commission for Educational Exchange between the United States of America and Spain; Department of Pharmacological and Physiological Sciences, University of Chicago
1989-90 Research Fellow, Department of Health of Navarra, Spain
1989 Traveling Fellow, University of Navarra to Department of Anatomy, University of Cambridge, England

Awards and Honors:

2011 Outstanding Achievement Award from the King/Drew Magnet High School, 2011 Medicine and Science Careers Program

2008-10	Treasurer (Elected), Faculty for Undergraduate Neuroscience
2006-12	NCRR SEPA Award (and ARRA supplement 2009-2011)
2006	Society for Neuroscience's Neuroscientist-Teacher Partnership Award
2002-04	NIMH T32 Award
2001	Department of Defense, award from the Infrastructure Support Program for Historically Black Colleges and Minority Institutions
2001	California State University Los Angeles Academic Senate, Innovative instruction award
2000	Professional Development Award, California State University Los Angeles
2000-06	R01 Award, NIH/NIA/ORWH
2000	UAS Grant Seed Money Fund Award
1997	W.F. Milton Fund Award
1995-01	FIRST Award NIH/NIA
1990-92	Fulbright Scholar
1989	Traveling Grant, Department of Health of Navarra; Department of Anatomy, University of Cambridge, England
1987-90	Pro Iuventute Foundation Predoctoral Fellowship

Membership in Professional Societies

2001-pres.	Council for Undergraduate Research (CUR)
2000-pres.	Faculty for Undergraduate Neuroscience (FUN)
1999-pres.	Fulbright Alumni Association
1992-98	European Women in Science and Humanities Association (EWISH)
1990-pres.	American Association for the Advancement of Science (AAAS)
1990-pres.	Society for Neuroscience (SfN)
1988-00	European Neuroscience Association (ENA)

Ad hoc reviewer

Journals: *Neurodegeneration, Journal of Comparative Neurology, Brain Research Bulletin, Experimental Neurology, Journal of Neuropathology and Experimental Neurology, Archives of General Psychiatry, Journal of Neuroscience Research, Regulatory Peptides, Neurobiology of Disease, Brain Research, Hippocampus, Neuroscience Letters, Journal of Neuroendocrinology, Journal of Neuroscience, Journal of STEM Research.*

Book review for Oxford University Press (Academic division)

Judge, Annual California State University, Los Angeles, Student Symposium on Research, Scholarship and Creative Activity; Symposium Chair, Southern California Conference on Undergraduate Research'02, Caltech November, 2002.

Grant Reviewer for NIH/NIGMS, Howard Hughes Medical Institute, PIUNA (Research Foundation, University of Navarra, Spain), NIH/NCRR, NIH/NCMHD, Neurological Foundation of New Zealand.

Committee Assignments:

a. National

2011-	" Board of Directors, Lexington College, Chicago, IL
2007-10	Executive Committee, Faculty for Undergraduate Neuroscience
2005-09	Standing Member, MARC Subcommittee, National Institute of General Medical Sciences, National Institutes of Health
2000-pres.	Minority Biomedical Research Support Review Panel, National Institute of General Medical Sciences, National Institutes of Health (<i>ad hoc</i>)
2002-pres.	Special Emphasis Review Panel, National Institutes of Health
2002-03	National Research Council, HHMI Predoctoral Fellowships Review Panel

b. Local

Charles Drew University of Medicine and Science:

- 2010-2011 Academic Senate Legislative Council
- 2007-pres. Academic Senate Finance Committee
- 2004-2010 Executive Committee on Research; Institutional Research Space Committee
- 2005-10 Appointments and Promotions Committee, College of Science & Health

California State University, Los Angeles:

- 2002-04 Graduate Studies Subcommittee (alternate), College of Natural and Social Sciences
University Undergraduate Studies subcommittee (alternate)
- 2002-03 Graduate Affairs Committee (alternate), Dept. Biological Sciences
- 2001-02 Academic Resources Committee (alternate), College of Natural and Social Sciences
- 2000-04 Institutional Animal Care and Use Committee (Chair: 2002-04)
- 2000-04 Committee on Instructional Affairs, Dept. of Biological Sciences (Chair: 2003-04)
- 2000-01 Committee on Graduate Students Affairs (alternate), College of Natural and Social Sciences
- 1999-01 Committee on Fiscal Affairs, Department of Biological Sciences
- 1999-00 Committee on Part-time Faculty and Committee on Graduate Affairs (alternate)
Department of Biological Sciences

Community Service, Mentorship and other Leadership Roles

- 2010 " Co-Director, Los Angeles Kids Judge! Science Fair, sponsored by the National Center for Research Resources (NCRR) and BEEMNET (www.beascientist.org)
- 2009-2009 " Natural Sciences Advisory Committee, Los Angeles Southwest College, Los Angeles, CA
- 2009 " Symposium Organizer and Proposer: Society for Neuroscience Annual Meeting, 2009 (accepted: "Translational Neuroscience: From Bench to Classroom and Back", Oct. 18.)
- " Co-Director, Los Angeles Kids Judge! Science Fair, sponsored by the National Center for Research Resources (NCRR) and BEEMNET.
- 2008 " Invited Panelist, "Exploring Health Careers", East Los Angeles Community College, December 6, 2008
- " Invited Panelist, "Survival Skills and Ethics", 14th Annual Conference. Snowmass (CO), June 8-13, 2008.
- " Co-Director, Los Angeles Kids Judge! Science Fair, sponsored by the National Center for Research Resources (NCRR) and BEEMNET.
- 2007 " Invited Panelist, "The Heart of Our Community", Latino Medical Student Association Regional Meeting, USC/Keck School of Medicine, April 20, 2007.
- " Invited speaker and mentor, National Youth Leadership Forum on Medicine, June 27 and July 11, 2007.
- " Mentor, Society for Neuroscience's Committee on Women in Neuroscience
- " Co-Director, Los Angeles Kids Judge! Science Fair, sponsored by the National Center for Research Resources (NCRR) and BEEMNET.
- 2006 " Presenter, National Science Teachers Association Meeting, Anaheim, CA, April 6, 2006.
- " Mentor, Society for Neuroscience's Neuroscientist-Teacher Partner Program on behalf of Elba Romo, Paramount High School.
- " Research Mentor, NIDDK-C. Drew U. National High School Student Summer Research Program
- " Invited speaker and mentor, National Youth Leadership Forum on Medicine, June 27 and July 24, 2006.
- 2005 " Research Mentor, NIDDK-C. Drew U. National High School Student Summer Research Program
- " Invited speaker and mentor, National Youth Leadership Forum on Medicine, June 28-29, 2005.
- 2004 " Co-Director, second East LA Kids Judge! Neuroscience Fair, sponsored by BEEMNET and the National Institute on Drug Abuse.
- " Invited panelist, Caltech Ph.D./Postdoc Career Conference. Sponsored by the Career Development Center and the Alumni Association in collaboration with the Caltech Postdoc Association and Graduate Student Council. September 10, 2004.

- 2003 " Invited speaker, "I want to be a Doctor! Latino MD panel", organized by CALMA and FLDNN on June 5, 2004, at the Student Center in East L. A. College.
- " Panelist, Caltech Ph.D./Postdoc Career Conference. Sponsored by the Career Development Center and the Alumni Association in collaboration with the Caltech Postdoc Association and Graduate Student Council.
- " Co-Director, East LA Kids Judge! Neuroscience Fair, sponsored by BEEMNET and the National Institute on Drug Abuse.
- " Invited speaker, Neuroscience week at the Los Angeles County Office of Education Juvenile Hall.
- " Mentor, Bridges to the Baccalaureate, Pasadena City Col./ California State U. Los Angeles; mentee: Christopher Saenz -- <http://www.cur.org/highlights/bio.asp#139>
- 2002 " Coordinator, Neuroscience Initiative, Council for Graduate Studies/Sloan Foundation Science Masters' Initiative. Office for Graduate Studies and Research
- 2002-pres. " Vice-President and founding member, Future Latino Doctors National Network, Inc.
- 2002-04 " Advisor and mentor for the Health Careers Opportunity Program (HCOP), National Institutes of Health/California State University Los Angeles
- 2001-04 " Advisor, California State University Undergraduate Students' Neuroscience Club
- 2001-06 " Mentor and co-director, "Updates on Science and Technology", a monthly get-together for high school science teachers
- 2000-pres. " Fulbright Association, Greater Los Angeles Area Chapter
- 1999 " Undergraduate Honor's Thesis Advisor, Harvard University, Cambridge (MA)
- 1999-pres. " Academic Advisor, Westfield Intercollegiate Residence, Los Angeles (CA)
- 1997 " Doctoral Thesis Advisor, University of Heidelberg, Germany
- 1997-99 " Northeastern University Graduate Students Association (Boston, MA): invited speaker and participant in the panel discussion: "Know no limitations"
- 1996 " Undergraduate Honor's Thesis Advisor, Northeastern University, Boston (MA)
- 1995-00 " Member, Scientific Committee, Istituto per la Cooperazione Universitaria, Rome (Italy)
- 1994 " Harvard-Radcliffe Science Alliance Program (Cambridge, MA), invited speaker and mentor
- " Beth Israel Deaconess Medical Center, Department of Neurology, Program Co-organizer, Seminars in Human Neurobiology: Neurotrophic Factors

RESEARCH FUNDING INFORMATION

Active

- 2006-12 National Institutes of Health, R25 RR23296 (\$1,002,631) PI
"Would you like to be a scientist? Discover Biomedical Sciences!"

Pending

- 2012-14 National Institutes of Health, AN3467689; PI
"Effect of myostatin inhibition on compensatory remodeling of muscle innervation"
- 2012-17 National Institutes of Health, 1R01AG042577-01 PI
"Deciphering the role of myostatin in sarcopenia and aged-related neurodegeneration"

Past

- 2009-11 ARRA Supplement to R25RR23296 PI
- 2003-08 National Institutes of Health, 1P20 MD000545-01 (\$4,660,000) PD
"C. R. Drew U. Col. of Allied Health Undergraduate Biomedical Research and Training Program" (PI: M. G. Sayed)
- 2000-07 National Institutes of Health, R01 AG17605 (\$914,499) PI
"Estrogen and cholinergic system interactions in aging"

2002-04	National Institutes of Health, T34MH65184 (\$1,334,939) "Careers Opportunities in Research (COR) in Mental Health"	PD
2001-03	National Institutes of Health, NIA Estrogen and cholinergic system interactions in aging (\$84,853) Supplement to R01 AG19597 for Kate Lee	PI
2001-02	California State University Los Angeles, Academic Senate (\$2,500) Innovative instruction award: "Multimedia and Cell Biology Curriculum Integration"	PI
2001	Department of Defense (\$105,000) Infrastructure Support Program: "Acquisition of a fluorescence microscope and related instruments to set up a core resource for research and teaching"	PI
2000	California State University Auxiliary Services Seed Grant (\$5,000) "Mechanisms of action of estrogen on cholinergic neurons in vitro"	PI
1995-01	National Institutes of Health, R29 AG12401 (\$350,000) "Cholinergic denervation and reinnervation in aging"	PI
1997	W. F. Milton Fund (\$10,000) Thrombin-protease nexin-1 clearance in Alzheimer's disease	PI
1995-97	National Institutes of Health "Mechanisms of neurofibrillary degeneration" C.B. Saper, PI	Collaborator
1991-97	Mathers Foundation "Chemical neuroanatomy of schizophrenia" C.B. Saper, PI	Collaborator
1990-92	Commission for Educational Exchange, USA and Spain. Fulbright/Ministry of Education and Science Visiting Scholar Program "Immunohistochemical study of the parabrachial region of the human brain"	PI
1990	Department of Health of the Local Council of Navarra "Cell loss in the supraoptic and paraventricular nuclei in Alzheimer's disease"	PI
1989-90	Department of Health of the Local Council of Navarra "Memory and aging"	PI
1987-90	Association of Friends of the University of Navarra "Senescence of the nucleus basalis of Meynert: a morphometric and histochemical study"	PI

TEACHING

Local Contributions

a. Charles Drew University courses

2010-11	Brain and Behavior (lecturer and course director) Neuroanatomy (lecturer and course director) Ethics in Research (lecturer and course director)
2008-09	Leadership Seminar II (lecturer and course director) Ethics in Research (lecturer and course director) Brain and Behavior (lecturer and course director)
2007-08	Leadership Seminar I (lecturer and course director)

California State University Los Angeles Courses

2002-04	Brain and Behavior (lecturer and course director)
2000-02	Molecular Determinants of Neuronal Morphology (Graduate seminar) (lecturer and course director)

- 2000-01 Developmental Neurobiology (lecturer and course director)
- 1999-03 Cell Biology (lecturer and course director, and laboratory instructor)
- 1999-04 Neuroanatomy (lecturer and course director)

b. Selected Invited Lectures/Seminars:

- 2011 " Pomona College, Faculty for Undergraduate Neuroscience Workshop
- 2010 " Pitzer College, Claremont, CA: Program in Neuroscience
" East Los Angeles Community College, MESA Program
" Touro University - College of Osteopathic Medicine
- 2006 " 54th National Conference on Science Education: "Teaching Undergraduates to Communicate Science through Kids Judge! Fairs", NSTA, Anaheim April 6.
- 2004 " Department of Basic Medical Sciences, College of Osteopathic Medicine of the Pacific: "Brain Compensatory Mechanisms and Hormones"
- 2003 " Invited speaker, 9th Annual Latino Behavioral Health Institute Conference, September 23-25. Sponsored by NIMH.
- 2001 " Southern California Academy of Sciences: "Neurotrophic effects of estrogen on the cholinergic basal forebrain"
- 2000 " California State University Los Angeles, Science Lecture Series: "The Brain: Window to the World"
" Department of Pathology, Community Memorial Hospital, Ventura, CA: "Estrogen and dementia: Basic mechanisms and clinical applications of hormonal treatments in Alzheimer's disease"
" ADRC, University of Southern California: "Lesion-induced plasticity of the cholinergic system"
- 1999 " Department of Biology and Microbiology, California State University Los Angeles

c. Advisory Responsibilities and Leadership Roles:

- 2010-11 Elected senator, Academic Senate, Charles Drew University (one year term)
- 2010 Invited speaker, Careers in Neuroscience, Withier College
- 2004-10 Chair, Department of Biomedical Sciences, College of Science and Health, Charles Drew University of Medicine and Science, Los Angeles
- 2002-03 Advisor, HCOP, California State University Los Angeles
- 2002 Coordinator, Neuroscience Initiative, CGS/Sloan Science Master's Initiative, Office of Graduate Studies and Research, California State University Los Angeles
- 1999-2004 Neuroscience Interest Group steering committee, California State University Los Angeles. From 2002: Seminar coordinator.
- 1999-pres Undergraduate Honor's Thesis Advisor, Master's Thesis Advisor and Master's Thesis Committee Member, California State University Los Angeles
- 1999-00 Molecular Biology Journal Club steering committee, California State University Los Angeles

d. Advisees:

" at Charles Drew University (2004-present)

- Steven Murata – undergraduate research 2008-11 (graduated from Wash U. in St. Louis in 2011)
- Gilberto Botello – undergraduate research 2007 (currently in Medical School at the UNM)
- Bryan Hyler – research thesis 2006-07 (as 3rd year Medical Sch stud; graduated M.D. June 2008)
- Lizeth Martinez – NIDDK High School summer Program 2005-06 (graduated from UCI in 2010)
- Jason Lunden – Master's in Biology, 2005-2007 (currently at Temple U. PhD program)
- Imogene Williams – NIDDK High School summer Prog 2008-09 (currently undergrad at Smith Coll)
- Edson Mancilla -- SPUR summer high school program 2008 (currently undergrad at Columbia U.)
- Christopher Saenz -- research assistant 2008 (currently grad student at MIT's Brain Institute)

" at California State University (1999-2004)

- Christopher Saenz - undergrad research, 2003-2004 (NIGMS/MBRS Bridges student, now at MIT)
- Gladys Felix – Postgraduate research, 2004-2005 (started at Columbia Medical School in 2005)

Rita Lukacs – Postbac studies in Biology, 2003-2004 (started PhD at UCLA in 2004)
 Anna Haluschak – undergraduate research, 2004
 Yukie Kanda-Lewis – undergraduate research, 2004
 Daisy Chau - Master's in Biochemistry, 2002-2004
 Angela Guo - Alhambra High Biomedical Independent Studies Program, 2002-2004
 Steven Pan - undergraduate research, 2002-2004
 Corinne Macias - undergraduate research, 2002
 Katherine Nelson - undergraduate research, 2002
 Jeff Reinecke - undergraduate research, 2002
 Quinton Bradley - Master's in Biology, 2001-2004
 Melika Eskalaei – Graduate research, 2001-2003
 Bibhu Mohanty - Undergraduate research, 2001-2004 (began Medical School in 2004)
 Cathy Hanks - undergraduate research, 2001
 Kate Lee - Master's in Biology, 2001-2003 (currently faculty at Santa Monica High School)
 Rosana Leos - Undergraduate Honor's Thesis, 2000-2001 (moved to CSUN-MPH program)
 Kenny Chow - Alhambra High Biomedical Independent Studies Prog., 2000-2002 (went on to UCB)
 Reymundo Dominguez - Master's in Biology, 2000-2003 (currently postdoctoral at USC)
 Stephanie H. Peppermuller, PhD - Postdoctoral fellow, 2000-2001
 Thomas Borowski, PhD - Postdoctoral fellow, 2000-2004 (currently faculty at Pitzer College)
 Caroline Yang - Master's in Biology and teaching credential, 1999-2000
 Ivet Hartonian - Undergraduate Honors Thesis (graduated *magna cum laude*), 1999-2000
 Master's in Biology, 2000-2003 (currently Resident in Neurology UCLA)
 Cathy Jalali – Graduate research, 2000-2002 (currently PhD candidate at Columbia)
 Judy Vargas – Postbac research 1999-2000 (graduated from UCLA Medical School in 2004)
 Lionel Lee - Undergraduate directed study, 1999
 Desiree Alvarado - Undergraduate directed study, 1999

Regional, National and International Contributions

a. University and Medical School Courses

- 1996-99 Human Nervous System and Behavior, Harvard Medical School
 Tutor and examiner; 8 weeks/year as tutor (50 h.), 9 second year medical school students in the tutorial. Course director: Dr. E. Fushpan (1996-1998) and Dr. D. Cardozo (1998-1999).
- 1995-96 Human Nervous System and Behavior, Harvard Medical School
 Examiner. Course director: Dr. E. Fushpan.
- 1994-95 The Human Body, Harvard Medical School
 Gross Anatomy Laboratory Instructor (35 students in the section); 50 hours/year. Course director: Dr. D. Goodenough.
- 1993-94 Human Nervous System and Behavior, Harvard Medical School
 Tutor and examiner; 10 weeks/year as tutor (50 h.), 8 second year medical school students in the tutorial. Course director: Dr. E. Fushpan.
- 1990-92 Neuroanatomy, Pritzker School of Medicine, University of Chicago
 Laboratory Instructor: 30 medical school students; 80 hours/year. Course director: Dr. C.B. Saper.
- 1989-90 Anatomy, University of Navarra, Pamplona, Spain
 Lecturer: 110 B.Sc. students (Diploma in Nutrition); 20 lectures/year.
- 1988-90 Biological Foundations of Personality, University of Navarra, Pamplona, Spain
 Lecturer and course director: 25 B.A. students; 20 lectures/year.
- 1987-90 Embryology, Gross Anatomy and Neuroanatomy, University of Navarra, Pamplona, Spain
 Lecturer and laboratory instructor: 160 medical students (lectures) and 80 medical students (laboratory); 20 hours/year (as lecturer); 40 hours/year (as laboratory instructor). Course director: Prof. Dr. L. M. Gonzalo.
- 1987-88 Ethics and Misconduct in Science, University of Navarra, Pamplona, Spain
 Lecturer: 60 graduate students; 8 hours/year. Course director: Prof. Dr. N. Lopez-Moratalla.

b. Invited Seminars (selected)

- 2007 " "Structural Impact of Estrogen in the Brain: Relevance to Healthy Aging", Symposium on Reproductive Aging and the Female Brain, Conference on Steroids and the Nervous System, Breckenridge March 27-31.
- 2005 " Saul Krasner Memorial Science Lecture, US Coast Guard Academy: "The effect of estrogen on structural changes in brain cells"
- 2004 " Michigan State University, Program in Neuroscience
" University of Texas at San Antonio, Biology Dept.
" Uniformed Services University, Dept. Anatomy, Physiology & Genetics
- 2003 " Stanford Research Institute, Biosciences Division: "Structural plasticity of the nervous system: the role of estrogen"
" Texas A&M University, Dept. of Veterinary Anatomy
- 2002 " University of California Riverside, Department of Biomedical Sciences: "Structural plasticity of the nervous system: the role of sex hormones"
- 2000 " Istituto per la Cooperazione Universitaria, Rome, Italy
- 1999 " Department of Neurobiology, Northeastern Ohio U. Coll. of Medicine, Rootstown, OH
" Department of Neurobiology, University of Tennessee, Memphis, TN
" Department of Biomedical Sciences, Marquette University, Milwaukee, WI
- 1998 " Department of Anatomy and Neurobiology, Boston University School of Medicine
" Department of Psychiatry, McLean Hospital, Belmont, MA
" Department of Anatomy, Medical College of Virginia, Richmond, VA
" Institute of Histology and General Embryology, University of Fribourg, Fribourg, Switzerland
" Department of Psychiatry, Uniformed Services University, Bethesda, MD
- 1997 " Department of Anatomy, Case Western Reserve University, Cleveland, OH
" Department of Anatomy, University of Iowa College of Medicine, Iowa City, IO
" Department of Anatomy and Cell Biology, State University of New York, Buffalo, NY
- 1996 " Dept. of Basic Medical Sciences, University of Lleida School of Medicine, Lleida, Spain
- 1995 " Dept. of Human Anatomy and Physiology, University College Dublin, Dublin, Ireland
" Department of Physiology, University of Valladolid School of Medicine, Valladolid, Spain
" Department of Anatomy and Cell Biology, Complutense University School of Medicine, Madrid, Spain

c. Other Advisory Responsibilities and Leadership Roles:

- 2010 Invited panelist, Professional Skills Workshop, Society for Neuroscience Meeting, San Diego, Friday November 12, 2010.
- 2010-11 Organizing Committee, SEPA 2011 Conference, National Center for Research Resources, NIH
- 2007-10 Treasurer-elect (2007-08) and Treasurer (2008-2010), Faculty for Undergraduate Neuroscience
- 2004 Chair, Society for Neuroscience 2004 Minisymposium: "Gonadal Hormone Modulation of Brain Vulnerability", San Diego, October 27, 2004
- 2003 External advisor for the program, "Multidisciplinary Training in Neuroscience" Oregon Health Sciences University, Portland (OR)
- 1999 Undergraduate Honor's Thesis Advisor, Harvard University, Cambridge (MA)
- 1997 Doctoral Thesis Advisor, University of Heidelberg, Germany
- 1996 Undergraduate Honor's Thesis Advisor, Northeastern University, Boston, MA
- 1997-99 Northeastern University Graduate Students Association (Boston, MA): invited speaker and participant in the panel discussion: "Know no limitations"
- 1994 Harvard-Radcliffe Science Alliance Program (Cambridge, MA), invited speaker and mentor
- 1994 Program Co-organizer, Seminars in Human Neurobiology: Neurotrophic Factors

d. Advisees:

- Tracy A. Thall, Honors Thesis, Harvard University, 1998-99 (graduated from UCLA Medical School in 2004).
- Luisa Melo, Undergraduate Research, Northeastern University, Boston, MA, 1997-98.
- Stefani Mentz, Doctoral Thesis, University of Heidelberg Medical School, Germany, 1997-1999.
- Sunita Kulkarni, Undergraduate Research and Honors Thesis, Northeastern University, 1996-98 (graduated from SUNY-Stony Brook Medical School in June'02).

PUBLICATIONS

citations taken from Google scholar on 3/6/12

Original Reports (students co-authors marked with *)

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Other Presentations at Scientific Meetings:

- 2011 National Center for Research Resources (NCRR) Science Education Partnership Award Annual Conference, Seattle (WA),
- 2010 National Center for Research Resources (NCRR) Science Education Partnership Award Annual Conference, McWane Science Center and Doubletree Hotel, Birmingham (AL), April 11-14.
- 2010 Council of Colleges of Arts & Sciences, Seminar for Department Chairs, Bahia Resort, San Diego (CA), October 7-9.
- 2009 "Ethics of Scientific Research: Educational Challenges". International Workshop on Bioethics, Pontifical University of the Holy Cross, Rome (Italy) March 20-21.
- 2008 3rd Workshop on Plasticity and Repair in Neurodegenerative Disorders, Lake Arrowhead Conference Center (CA) May 15-18, 2008.
- 2006 2nd Workshop on Plasticity and Repair in Neurodegenerative Disorders, Lake Arrowhead Conference Center (CA) May 11-14, 2006.
- 2005 3rd International Meeting on Steroids and the Nervous System. Fondazione per le Biotecnologie, Turin (Italy) February 13-17, 2005.
- 2005 Neurostereology Workshop, Marine Biological Laboratory, Woods Hole, MA (March 19-24)
- 2004 Plasticity and Repair in Neurodegenerative Disorders, Lake Arrowhead Conference Center (CA) February 19-22, 2004 (invited).
- 2004 Workshop on Steroid Hormones and Brain Function, Breckenridge (CO), March 27-31, 2004.
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- 2003 Keystone Symposium on "Axonal Connections: Molecular cues for development and regeneration," Keystone (CO), February 13-17, 2003: "Axonal sprouting of cortical projections in the adult."
- 2002 "Behavioral effects of estrogen treatment on an animal model of cholinergic dysfunction". The 5th International Congress of Neuroendocrinology. Bristol (UK) August 31 – September 4, 2002.
- 2001 "Neurotrophic effects of estrogen on the cholinergic basal forebrain". Southern California Academy of Sciences, California State University Los Angeles, May 4, 2001.
- 2001 "Neurotrophic effects of estrogen on the cholinergic basal forebrain". Keystone Symposium on Neuronal and Vascular Stress: A New Window on Alzheimer's Disease. Durango (Colorado), January 15-21, 2001.
- 2000 "In vivo neuroprotection of injured CNS neurons by a single injection of a DNA plasmid encoding the bcl-2 gene". Molecular and Cellular Mechanisms of Brain Repair. Fondazione per le Biotecnologie. Torino (Italy), October 11-14, 2000.

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- 1999 "Long-term sleep-wake EEG/EMG recordings in rats after unilateral intraparenchymal infusion of the specific cholinergic toxin 192 IgG-saporin into the nucleus of the diagonal band of Broca". 13th Annual Meeting of the Associated Professional Sleep Societies. Orlando (Florida), June 19-24, 1999.
- 1999 "Expression of thrombomodulin in human astrocytes". Keystone Symposium on Molecular Mechanisms in Alzheimer's Disease. Taos (New Mexico), March 3-8, 1999.
- 1995 "Transneuronal effects of lesions in the basal forebrain cholinergic system". Elba International Neuroscience Program: "Neural Plasticity, Trauma and Regeneration", Marina di Campo, Isola d'Elba (Italy), September 9-20, 1995.
- 1991 "Is there a correlation between the morphometric changes observed in the supraoptic and paraventricular nuclei of hypothalamus and those that appear in the nucleus basalis in patients with Alzheimer's disease?" 2nd European Congress of Gerontology. Madrid (Spain), September 11-14, 1991.
- 1991 "Nucleus basalis of Meynert: relation between neuropathological changes and evolutive stage of the Alzheimer's disease". 2nd European Congress of Gerontology. Madrid (Spain), September 11-14, 1991.
- 1990 "Núcleo basal de Meynert en la enfermedad de Pick". VI Neurological Winter Seminar. Candanchú (Spain), January 28 to February 3, 1990.
- 1990 "Hipertrofia nuclear y pérdida celular en el núcleo basal de Meynert de pacientes con la enfermedad de Alzheimer". XVIII National Congress of Geriatrics and Gerontology. Las Palmas de Gran Canaria (Spain), May 2-5, 1990.
- 1990 "Cell loss and nuclear hypertrophy in topographical subdivisions of the nucleus basalis of Meynert in Alzheimer's disease". The Basal Forebrain: Anatomy to Function. Hyatt Regency, Chicago (USA). May 24-27, 1990.
- 1990 "Enfermedad de Alzheimer: cambios en el núcleo basal de Meynert". Multidisciplinary Symposium on Alzheimer's Disease and Other Dementias. Pamplona (Spain), September 16-19, 1990.
- 1990 "Envejecimiento del núcleo basal de Meynert". XIV National Congress of the Spanish Anatomic Society. Córdoba (Spain), September 19-21, 1990.
- 1989 "Participación hipotalámica en la enfermedad de Alzheimer. Estudio morfométrico". II National Congress of the Spanish Society of Neuroscience. Sevilla (Spain), October 2-5, 1989.

Participation in Courses and Seminars:

- 2011 National Center for Research Resources (NCRR) Science Education Partnership Award Annual Conference, May 8-10, Seattle (WA).
- 2011 Quantifying the impact of an Undergraduate Mentoring Program on 4th Grade Students. 41st Annual Meeting of the Society for Neuroscience, Annual Brain Awareness Campaign, Saturday November 12, 2011, Washington D.C.
- 2010 National Center for Research Resources (NCRR) Science Education Partnership Award Annual Conference, McWane Science Center and Doubletree Hotel, Birmingham (AL), April 11-14.
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- 2008 Metabolic pathways of longevity, Keystone Symposium, March-April 2008.
- 2007 Survival Skills and Ethics, 13th Annual Conference. Snowmass (CO), June 10-15, 2007.
- 2006 National Center for Research Resources (NCRR) Science Education Partnership Award Annual Conference, University of Utah, Salt Lake City, October 19-21, 2006.
- 2006 University of Michigan: Enriching the Academic Experience of College Science Students. May 17-19, 2006.
- 2006 Philosophy of Biology Conference: Evolution and Evidence in Biological Theory. California State University, Northridge (CA), May 6, 2006.

- 2006 Workshop: Teaching Undergraduates to communicate science through Kids Judge! Fairs. National Science Teachers Association (NSTA) Annual Meeting, Anaheim (CA) April 6, 2006.
- 2006 Workshop on Steroid Hormones and Brain Function and the Conference on Sex and Gene Expression. Breckenridge, CO, March 28 – April 1, 2006.
- 2005 Neurostereology Workshop. Special Topics Course at the Marine Biological Laboratory, Wood Hole, MA, March 19-24, 2005. Course Director: Mark West.
- 2004 UCLA Conference in History & Philosophy of Science – Concepts of Cause: Physics, Biology, History and Philosophy. Dodd Hall, November 7, 2004.
- 2004 Workshop on Steroid Hormones and Brain Function, Breckenridge (CO), March 27-31, 2004.
- 2004 Plasticity and Repair in Neurodegenerative Disorders, Lake Arrowhead Conference Center (CA) February 19-22, 2004 (invited).
- 2003 Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Albuquerque (NM), October 2-5, 2003.
- 2001 Undergraduate Neuroscience Education: from the Enchanted Loom to the World Wide Web. Organized by the Project Kaleidoscope and the Faculty for Undergraduate Neuroscience. Trinity College, Hartford (CT), June 22-24, 2001.
- 2001 International Meeting on Steroids and the Nervous System. Turin (Italy), February 11-14, 2001. Presented an oral communication.
- 2001 Keystone Symposium on Neuronal and Vascular Stress: A New Window on Alzheimer's Disease. Durango (CO), January 15-21, 2001. Presented a paper in poster format.
- 2000 Building and Re-building the Brain, Neuroscience Symposium, organized by the University of California at Irvine.
- 1999 Molecular Biology of Aging, organized by the Marine Biological Laboratory. Woods Hole, MA. Invited fellow, Ellison Foundation. Directors: L. Guarente and D. Wallace.
- 1999 Molecular Mechanisms in Alzheimer's Disease, organized by the Keystone Symposia. Taos, NM. Organizers: B. A. Yankner and D.J. Selkoe.
- 1998 Mouse Behavioral Analysis, organized by Cold Spring Harbor Laboratory. Cold Spring Harbor, New York (USA). Directors: M. Gallagher and A. Silva.
- 1998 Neurobiology of Disease Workshop: Tourette syndrome and Obsessive-Compulsive Disorder, organized by the Society for Neuroscience, Los Angeles (USA).
- 1997 Molecular Biology Summer Workshop, organized by New England Biolabs at Smith College. Northampton, Massachusetts (USA). Director: S.A. Williams.
- 1997 Fifth Annual Summer Training Course in Experimental Aging Research. Marin County, California (USA), invited fellow. Director: R. A. Miller.
- 1995 Elba International Neuroscience Program: Neural Plasticity, Trauma and Regeneration. Marina di Campo, Isola d'Elba (Italy). Director: R. Perez-Polo.
- 1994 Neurodegenerative Disease: Amyotrophic Lateral Sclerosis, organized by the Society for Neuroscience, Miami (USA).
- 1994 Gordon Conference on The Neuron. Plymouth State College, N. H. (USA).
- 1993 Molecular Biology of Disease: Neuromuscular Disorders, organized by the Society for Neuroscience, Washington (USA).
- 1992 Alzheimer Disease: Cellular and Molecular Mechanisms of Neural Degeneration, organized by the Royal Institution, London (UK).
- 1992 Radiation Protection for the Use of Radionuclides in Research, Harvard University. Boston (USA).
- 1991 Molecular Biology, organized by the Society for Neuroscience. New Orleans (USA)
- 1989 Computer-assisted 3-D reconstruction in neuroscience, organized by the European Neuroscience Association. Torino (Italy).
- 1989 Image analysis in neurohistology, organized by the European Neuroscience Association. Torino (Italy).