

ANA M. CORBACHO, PHD
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QUALIFICATION SUMMARY

Primary responsibility for the direction, enrichment/development and implementation of interdisciplinary research programs for undergraduate students. Developed innovating scientific curriculum and professional development programs. Experienced mentor for students in STEM fields. Over 17 years' of experience conducting research, teaching, and publishing in peer-reviewed journals in the fields of biology, biochemistry, physiology and endocrinology.

EDUCATION

2000 **Ph.D., Neuroendocrinology**, National Autonomous University of Mexico (UNAM), Mexico
1998 **M. S., Physiology**, National Autonomous University of Mexico, Mexico
1993 **B.S., Physiology**, University of the Republic (UDELAR), Uruguay

EMPLOYMENT HISTORY

2012-present **Associate Director for Higher Education**, Interdisciplinary Agriculture, Medicine, Science, Technology, Engineering and Mathematics (IAMSTEM) Hub, University of California, Davis (UC Davis).
2006-present **Assistant Director for Higher Education**, National Science Foundation Center for Biophotonics Science and Technology, UC Davis.
2002-2006 **Postdoctoral Fellow**, Pulmonary and Critical Care Medicine, Department of Internal Medicine, School of Medicine, UC Davis. (Advisor: Carroll E. Cross, M.D.)
2001-2002 **Postgraduate Researcher**, Pulmonary and Critical Care Medicine, Department of Internal Medicine, School of Medicine, UC Davis
1993-1995 **Instructor**, Department of Cell Biology, College of Sciences, UDELAR, Uruguay.
1991-1993 **Instructor**, Department of Biochemistry, College of Sciences, UDELAR, Uruguay.
1989-1995 **Research Assistant**, Division of Cell Biology, Institute of Biological Research Clemente Estable (IIBCE), Uruguay.

EXPERIENCE IN SCIENCE RESEARCH EDUCATION

2011-present **Director**, Continuing Umbrella of Research Experiences (CURE) Program for undergraduate students, Comprehensive Cancer Center, UC Davis. Research training and career development program for undergraduate students. Nine students, summer (10 wk) and academic year experience. Funding: National Cancer Institute (NCI), Cancer Center P30 supplement, PI: Ralph De Vere White
2010-present **Director**, Facilitating Student Research Access (FASTRAC) Program, College of Biological Sciences, UC Davis. Research training and career development program for community college students. Forty-five students – Winter (40 h/wk, 2 wk), summer (8-12 wk) and academic year experience. Funding: Howard Hughes Medical Institute (HHMI). PI: Ken Burtis
2008-present **Director**, Community College Winter Research (CCWinter) Program, Center for Biophotonics Science and Technology, UC Davis. Intensive research training program for community college students. Sixty students – Winter (40 h/wk, 2 wk). Funding: National Science Foundation (NSF) to CBST.
2006-present **Director**, Summer Research Internship Program, Center for Biophotonics Science and Technology, UC Davis. Research training program for undergraduate students. One hundred forty one students – Summer (8-12 wk). Funding: National Science Foundation (NSF) to CBST.

TEACHING

2012 **Instructor**, FRS 003 007 SQ 2012, Freshman seminar, Science at the Boundaries: Exploration of Interdisciplinary Careers in Science, Technology, Engineering and Mathematics.
2010-2011 **Invited Speaker**, Gender Differences in the Neuroendocrine System (1 h), Neurological Surgery Residents, Dept. Neurological Surgery, School of Medicine, UC Davis,
2008-present **Instructor/Facilitator**, Intensive Winter Research Program for Community College Students (40 h/wk, 2 weeks). Includes team/confidence building activities, safety training and research (Saving

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| | TOM project-based activity), CBST, UC Davis. |
| 2007-present | Instructor/Facilitator , Introductory Program to the Undergraduate Research Experience (First Week Intensive, boot-camp)(40 h). Includes team/confidence building activities, safety training and basic laboratory skills, Summer Internship Program, CBST, UC Davis. |
| 2007-2011 | Invited Speaker , IST 8A - Introduction to Biophotonics. Lectures: Basics of Biology (2 h); Basic Molecular Biology (1h). Undergraduate course, UC Davis. |
| 2007-2009 | Laboratory Instructor/Mentor , Saving TOM project-based activity (15 h). 16 students, High School Research Academy - CURE Program, CBST, UC Davis. |
| 2007-2008 | Laboratory Instructor/Mentor , Summer of Research, Guided hands-on research projects (50 h). Sixteen students, High School Research Academy - CURE Program, CBST, UC Davis. |
| 2007 -2008 | Invited Speaker , Caenorhabditis elegans and green fluorescent protein (1 h), CBST Teacher Research Academy, Level 2, 6 science teachers, UC Davis. |
| 2007 | Laboratory Instructor/Mentor , Short Course on Basic Principles of Cell Culture (12 h). 16 summer undergraduate students, CBST, UC Davis. |
| 2007 | Laboratory Instructor/Mentor , Short Course on Basic Principles of Cell Culture (12 h). Eight high school students, High School Research Academy - CURE Program, CBST, UC Davis. |
| 2007 | Instructor , Scale of Biological Things (1 h); Cell Cycle (1 h); Gene expression (1 h). High School Research Academy - CURE Program, CBST, UC Davis. |
| 2006-present | Instructor/Facilitator , Professional Development Program (2 h/wk, 8 weeks): CV & Resume; Abstract Writing; Interview Skills; Networking; Mentor-Mentee Relationship; Career Opportunities Panel; Presentation Skills. 25-40 summer internship undergraduate students, CBST, UC Davis. |
| 2006-present | Co-Facilitator , Challenging Stereotypes Workshop (5 h). 25-60 summer internship undergraduate students, CBST, UC Davis. |
| 2006 | Invited Speaker , BCM/HPH418: Mammalian Endocrinology and Homeostasis. Lectures: Hypothalamus & Pituitary Gland (2 h); Pregnancy & Placenta (2 h). School of Medicine, UC Davis. |
| 1999 | Instructor , Physiology of the Circulatory System: Angiogenesis (10 h). Graduate program, University of San Luis Potosí, Mexico. |
| 1998 | Invited Speaker , Cell Biology (6 h). Graduate program, Center of Neurobiology, UNAM, Mexico. |
| 1993-1995 | Laboratory Instructor , Cell Biology, Course (6 h/week, one semester). Undergraduate course, Department of Cell Biology, College of Sciences, UDELAR, Uruguay. |
| 1993-1995 | Laboratory Instructor , Histology and Embryology, Course (6 h/week, one semester). Undergraduate course, Department of Cell Biology, College of Sciences, UDELAR, Uruguay. |
| 1993-1995 | Laboratory Instructor , Introduction to Biology, Course (2 h/week, one semester). Undergraduate course, Department of Cell Biology, College of Sciences, UDELAR, Uruguay. |
| 1991-1993 | Laboratory Instructor , General Biology, Course (6 h/week, one semester). Undergraduate course, Department of Biochemistry, College of Sciences, UDELAR, Uruguay. |

PROGRAM and CURRICULUM DEVELOPMENT

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| 2012 | Developer , Senior Undergraduate Leadership Program |
| 2011 | Co-Developer , 'Cross-Cultural Communication: Asian and US Students'- Activities developed to facilitate the interaction and understanding of US summer internship students and international summer interns from China, Singapour and HongKong. |
| 2009 | Developer , 'Protein Content in Beans, Mushrooms and Flours: An Educated Choice' Objective: to measure protein content in order to match unidentified food labels with actual food products: canned foods (green beans, lima beans, garbanzo beans, corn, black beans, kidney beans, mushrooms) and 5 types of flours (almond, soy, garbanzo bean, oats and wheat). Emphasis was put on comparing the popular knowledge on protein content of certain foods with the actual quantitative analysis. The activity was implemented for 3-4 students per team, a classroom size of 30-35 undergraduate students and ~5 h of lab work. |
| 2008 | Developer , 'From the Market to the Lab'. Objective: to compare the nitrite and protein contents in deli meats, protein shakes and energy bars. Emphasis was put on comparing mainstream products and 'healthy' alternatives that claim low nitrite levels in deli meats and high levels of protein in shakes and energy bars. The activity was implemented for 3-4 students per team, a classroom size of 25-30 undergraduate students and ~5 h of lab work. |

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| 2008-2009 | <p>Developer, multiple activities to facilitate group dynamics in diverse undergraduate research programs and facilitate the discussion on subjects including diversity awareness, professional identity development and misconceptions about scientific professions.</p> <ul style="list-style-type: none"> • ‘Where in the World?’ Objective: Ice Breaker - Team Building - Diversity Awareness (1-2 h). • ‘Handshake Activity’ Objective: Confidence Building - Professional Identity Development (5-10 min). • ‘It’s a what?’ Objective: Energizer - Team Building (10-15 min). • ‘Scientist, Technician or Student’ Objective: Diversity Awareness - Professional Identity Development (20-30 min). • ‘Playing Childhood Games’ Objective: Energizer - Team Building (15 min blocks). • ‘Worst Case Scenario’ Objective: Team Building - Confidence Building - Professional Identity Development (2-3 h) • ‘What profession?’ Objective: Diversity Awareness - Professional Identity Development (10 min). |
| 2007 | Developer , Basic Principles of Cell Culture – Multilevel hands-on laboratory activity adapted for high school students (4 sessions, 3 h each) or university students (2 sessions, 3h each). |
| 2007 | Developer , First Week Intensive Program (40 h/one week), a boot-camp like program to support the rapid bonding of students and establishing a supportive community of undergraduates in STEM while strengthening their professional and laboratory skills. The program includes team/confidence building activities, diversity awareness education, safety training and basic training in laboratory skills. |
| 2007 | Developer Intensive Winter Research Program for Community College Students (40 h/wk, 2 weeks). Bridge program focused on introducing students to an intensive research experience, building community and supporting their transition from community colleges to UC Davis. Components: research project-based activity (analytic chemistry/biochemistry wet laboratory, 50 h); professional identity development activities (15 h); and team-confidence building activities (15 h). Target group: twenty-four community college sophomores. |
| 2007 | Developer , Saving TOM a project-based activity based on a realist scenario. While no manual is provided, free access to internet, or any information resource is granted. The scientific objective is to discover contamination and recover a protein from contaminated samples. The activity has been adapted to different levels: high school students (14 h), community college students (56 h) and university students (8 h). |

AWARDS AND HONORS

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| 2012 | Recipient of the Chancellor's Achievement Team Award for Diversity and Community for 2011-2012 in the Academic Federation category. This award was given to a team of seven people (SACNAS committee) and it recognizes the contributions in enhancing inclusiveness and diversity within the University of California, Davis's NSF Center for Biophotonics (February 8, 2012), UC Davis, CA, US. |
| 2011 | Recipient of the 2010 Dean's Team Award for Excellence awarded by the Office of the Vice Chancellor, Human Health Sciences . This award recognizes the contributions in outstanding multi-disciplinary team contributions in the mission area of Science Education (March 1, 2011), School of Medicine, UC Davis, CA, US. |
| 2010 | Recipient of the Chancellor's Achievement Award for Diversity and Community for 2009-2010 in the Academic Federation category. This award recognizes the contributions in enhancing inclusiveness and diversity within the University of California, Davis's NSF Center for Biophotonics (January 27, 2010), UC Davis, CA, US. |
| 2005 | Travel Award , Endocrine Society, 87th Annual Meeting, San Diego June 4-7, US. |
| 2004 | NIH/NHLBI-NRSA Postdoctoral Training Fellowship 2-T32-HL07013-26, Interdisciplinary Program in Lung biology, University of California Davis, CA, US. |
| 2003 | Travel Award , Endocrine Society, 85th Annual Meeting of the 12-15 Jun, Philadelphia June 19-22, US. |
| 2002-2004 | Postdoctoral Fellowship , American Lung Association, US. |
| 2001 | Research Award , “Premios Bienales Funsalud, José Santos en Oftalmología”, Mexican Fundation for Health (Fundación Mexicana para la Salud) for the research entitled: Inhibition of rat corneal angiogenesis by 16-kDa prolactin and by endogenous prolactin-like molecules”, Mexico. |
| 2000 | PhD Degree conferred with Honors , National Autonomous University of Mexico, Mexico. |
| 2000 | ‘Alfonso Caso’ Medal for Best PhD Thesis , National Autonomous University of Mexico, Mexico. |

- 1999 **Travel Award**, Endocrine Society, 81st Annual Meeting, 12-15 Jun, San Diego, California, US.
- 1998-2000 Graduate Studies Fellowship, National Autonomous University of Mexico, Mexico.
- 1998 **Young Investigator Award**, Society for Free Radical Biology and Medicine (formerly The Oxygen Society), 4th Annual Meeting, Washington, D.C., US.
- 1998 **Master in Science Degree conferred with Honors**, National Autonomous University of Mexico, Mexico.
- 1995-1997 Graduate Studies Fellowship, Mexican Government's Secretary of External Affairs, Mexico.
- 1995 **UNESCO-ICSU-TWAS* Training in Research Fellowship** at the Neurobiology Center, National Autonomous University of Mexico, 3-months duration. (*UNESCO-International Council of Scientific Unions -The Third World Academy of Sciences).

SCIENTIFIC PUBLICATIONS IN PEER REVIEWED JOURNALS

1. 1992 Brauer MM, Lincoln J, Blundell D and **Corbacho A**. Postnatal development of noradrenaline-containing nerves of the rat uterus. *Journal of the Autonomic Nervous System*, 39, 37-50.
2. 1994 Brauer MM, Lincoln J, Milner P, Blundell D, Pássaro M, **Corbacho A** and Burnstock G. Plasticity of autonomic nerves: differential effects of long-term guanethidine sympathectomy on the sensory innervation of the rat uterus during maturation. *Int. J. Devl Neuroscience* 12, 579-586.
3. 1995 Brauer MM, **Corbacho AM** and Burnstock G. Effects of chronic and acute oestrogen treatment on the developing noradrenaline-containing nerves of the rat uterus. *Int. J. Devl Neuroscience* 13, 791-798.
4. 1997 **Corbacho A**, Brauer M, Pérez T. Development and maturation of noradrenaline-containing nerves of the rat uterine artery. Effects of acute and chronic oestrogen treatment. *Int. J. Devl. Neuroscience* 15, 363-371.
5. 1998 Clapp C, López-Gómez F, Nava G, Macotela Y, Torner L, **Corbacho A**, Acosta E, Dueñas Z, Morales MA and Martínez de la Escalera G. Expression of PRL mRNA and of prolactin-like proteins in endothelial cells. Evidence for autocrine effects. *Journal of Endocrinology* 158, 137-144.
6. 1999 Torner L, Nava G, Dueñas Z, **Corbacho A**, Mejía S, Lopez-Barrera, F, Cajero M, Martínez de la Escalera G and Clapp C. Changes in the expression of neurohypophyseal prolactins during the estrous cycle and after estrogen treatment. *Journal of Endocrinology* 161, 423-432.
7. 1999 Dueñas Z, Torner L, **Corbacho AM**, Ochoa A, Gutierrez-Ospina G, Lopez-Barrera F, Barrios FA, Berger P, Martinez de la Escalera G and Clapp C. Inhibition of rat corneal angiogenesis by 16 kDa prolactin and by endogenous prolactin-like molecules. *Investigative Ophthalmology & Visual Science* 40, 2498-2505
8. 2000 **Corbacho AM**, Nava G, Eiserich JP, Noris G, Macotela Y, Martínez de la Escalera G, Freeman BA and Clapp C. Proteolytic cleavage confers nitric oxide synthase inducing activity upon prolactin. *Journal of Biological Chemistry* 275, 13183-13186.
9. 2000 **Corbacho AM**, Macotela Y, Nava G, Torner L, Duenas Z, Noris G, Morales MA, Martinez de la Escalera G, Clapp C. Human umbilical vein endothelial cells express multiple prolactin isoforms. *Journal of Endocrinology* 166(1):53-62.
10. 2002 **Corbacho AM**, Martínez de la Escalera G and Clapp C. Roles of prolactin and related members of the prolactin/growth hormone/placental lactogen family in angiogenesis. Review article. *Journal of Endocrinology* 173, 219-238.
11. 2002 Obermueller-Jevic UC, Espiritu I, **Corbacho AM**, Cross CE, Witschi H. Lung tumor development in mice exposed to tobacco smoke and fed beta-carotene diets. *Toxicol Sci.* 69(1):23-9.
12. 2002 Macotela Y, Mendoza C, **Corbacho AM**, Cosio G, Eiserich JP, Zentella A, Martinez de la Escalera G, Clapp C. 16K prolactin induces NF-kappaB activation in pulmonary fibroblasts. *J Endocrinol.* 175(3):R13-8
13. 2003 Weiss RH, Marshall D, Howard L, **Corbacho AM**, Cheung AT, Sawai ET. Suppression of breast cancer growth and angiogenesis by an antisense oligodeoxynucleotide to p21(Waf1/Cip1). *Cancer Lett.* 189(1):39-48.

14. 2003 Valacchi G, Pagnin E, Okamoto T, **Corbacho AM**, Olano E, Davis PA, Vliet A, Packer L, Cross CE. Induction of stress proteins and MMP-9 by 0.8ppm of ozone in murine skin. *Biochem Biophys Res Commun.* 305(3):741-6.
15. 2003 **Corbacho AM**, Macotela Y, Nava G, Eiserich JP, Cross CE, Martinez de la Escalera G, Clapp C. Cytokine induction of prolactin receptors mediates prolactin inhibition of nitric oxide synthesis in pulmonary fibroblasts. *FEBS Lett.* 544(1-3):171-5.
16. 2003 Obermuller-Jevic UC, Olano-Martin E, **Corbacho AM**, Eiserich JP, van der Vliet A, Valacchi G, Cross CE, Packer L. Lycopene inhibits the growth of normal human prostate epithelial cells in vitro. *J Nutr.* 133(11):3356-60.
17. 2004 Valacchi G, Pagnin E, **Corbacho AM**, Olano E, Davis PA, Packer L, Cross CE. In vivo ozone exposure induces antioxidant/stress-related responses in murine lung and skin. *Free Radic Biol Med.* 36(5):673-81.
18. 2004 Schock BC, Van der Vliet A, **Corbacho AM**, Leonard SW, Finkelstein E, Valacchi G, Obermuller-Jevic U, Cross CE, Traber MG. Enhanced inflammatory responses in alpha-tocopherol transfer protein null mice. *Arch Biochem Biophys.* 423(1):162-9.
19. 2004 **Corbacho AM**, Valacchi G, Kubala L, Olano-Martin E, Schock BC, Kenny TP, Cross CE. Tissue-specific gene expression of prolactin receptor in the acute phase response induced by lipopolysaccharides. *Am J Physiol Endocrinol Metab.* 287(4):E750-7
20. 2004 Gonzalez C, **Corbacho AM**, Eiserich JP, Garcia C, Lopez-Barrera F, Morales-Tlalpan V, Barajas-Espinosa A, Diaz-Munoz M, Rubio R, Lin SH, De La Escalera GM, Clapp C. 16K-prolactin inhibits activation of endothelial nitric oxide synthase, intracellular calcium mobilization and endothelium-dependent vasorelaxation. *Endocrinology* 145(12):5714-22.
21. 2005 Lim Y, Phung AD, **Corbacho AM**, Aung HH, Maioli E, Reznick AZ, Cross CE, Davis PA, Valacchi G. Modulation of cutaneous wound healing by ozone: Differences between young and aged mice. *Toxicol Lett.* 160(2):127-34.
22. 2007 **Corbacho AM**, Eiserich JP, Zuniga LA, Valacchi G and Villablanca AC. Compromised Aortic Vasoreactivity in Male Estrogen Receptor- α -Deficient Mice during Acute Lipopolysaccharide-Induced Inflammation. *Endocrinology* 148(3):1403-1411.
23. 2007 Valacchi G, Vasu VT, Yokohama W, **Corbacho AM**, Phung A, Lim Y, Aung HH, Cross, CE and Davis PA. Lung vitamin E transport processes are affected by both age and environmental oxidants in mice. *Toxicology and Applied Pharmacology* 222:227-234.

BOOK CHAPTERS

1. 2004 **Corbacho, AM**, Martínez de la Escalera, G, y Clapp, C. *Angiogénesis* pp. 247- 264. En Mas Oliva, J. (Eds.), *Diagnóstico Molecular en Medicina*, JGH Editores-Manual Moderno, México. (**Corbacho, AM**, Martínez de la Escalera, G and Clapp, C. *Angiogenesis. pp. 247-264. In* Mas Oliva, J. (Eds.), *Molecular Diagnosis in Medicine*, JGH Editores-Manual Moderno, México) *En: Diagnóstico Molecular en Medicina* (Jaime Mas-Oliva, Ed.) 1a. edición. Editorial Manual Moderno, S.A de C.V., México, D.F. ISBN 968-426-999-4, pp 127-147.
2. 2007 González, C., **Corbacho, A.M.**, Martínez de la Escalera, G., Clapp, C. (2007): *Angiogénesis: mecanismos de regulación y aplicaciones clínicas*. En: "Diagnóstico Molecular en Medicina". Mas Oliva, J. (Ed.), El Manual Moderno, PUIS-UNAM, México, p255-275. ISBN 978-970-729-293-2.

SCIENTIFIC ABSTRACTS

1. 1993 **Corbacho A**, Brauer MM y Pérez, T. Desarrollo y maduración de la inervación noradrenérgica de la arteria uterina de la rata. (# 288). XXXVI Reunión Anual de la Sociedad de Biología de Chile, 24 al 27 de noviembre, Puyehue, CHILE. (**Corbacho A**, Brauer MM and Pérez T. *Development and maturation of the noradrenergic innervation of the rat uterine artery. XXXVI Annual Meeting of the Chilean Biology Society, November 24-27, Puyehue, CHILE*).
2. 1994 **Corbacho A**, Brauer MM y Pérez T. La inervación noradrenérgica de la arteria uterina de la rata durante el desarrollo y la pubertad (# P5/9). XVIII Congreso Latinoamericano de Ciencias Fisiológicas, 12 al 16 de abril, Montevideo, URUGUAY. (**Corbacho A**, Brauer MM and Pérez T. *The*

noradrenergic innervation of the rat uterine artery during development and puberty. XVIII Latin-American Meeting of Physiology, April 12-16, Montevideo, URUGUAY).

3. 1994 Brauer MM, **Corbacho A** y Burnstock G. Efectos del tratamiento crónico y agudo con estrógenos sobre el desarrollo de la innervación noradrenérgica del útero de la rata (CL2-3). XIV Congreso Latinoamericano de Farmacología, 20 al 24 de noviembre, Santiago de Chile, CHILE. (*Brauer MM, **Corbacho A** and Burnstock G. Effects of chronic and acute estrogen treatment on the developing noradrenaline-containing nerves of the rat uterus. XIV Latin-American Congress of Pharmacology, November 20-24, Santiago de Chile, CHILE).*
4. 1995 Brauer MM y **Corbacho AM**. Efectos de los estrógenos sobre el desarrollo de la innervación noradrenérgica del útero de la rata. VII Jornadas Científicas de la Sociedad Uruguaya de Biociencias, 28 al 30 de abril, Piriápolis, URUGUAY. (*Brauer MM and **Corbacho AM**. Effects of estrogen on the development of the noradrenergic innervation of the rat uterus. VII Meeting of the Uruguayan Society of Life Sciences, April 28-30, Piriápolis, URUGUAY).*
5. 1995 **Corbacho A**, Martínez L y Brauer M. Alteraciones ultraestructurales de las cilias del epitelio respiratorio en niños portadores de enfermedad respiratoria crónica. Experiencia de colaboración clínico-básica. VII Jornadas Científicas de la Sociedad Uruguaya de Biociencias, 28 al 30 de abril, Piriápolis, URUGUAY. (***Corbacho A**, Martínez L and Brauer . Ultrastructural alterations in the cilia of the respiratory epithelium in infants with chronic respiratory disease. VII Meeting of the Uruguayan Society of Life Sciences, April 28-30, Piriápolis, URUGUAY).*
6. 1995 Brauer MM, Novoa JE, Zucchi A y **Corbacho AM**. Ultraestructura celular y citoquímica en el estudio de las leucemias agudas mieloblásticas. Experiencia de colaboración clínico-básica. VII Jornadas Científicas de la Sociedad Uruguaya de Biociencias, 28 al 30 de abril, Piriápolis, URUGUAY. (*Brauer MM, Novoa JE, Zucchi A and **Corbacho A**. Cellular and cytochemical ultrastructure in the study of acute myeloblastic leukemia. VII Meeting of the Uruguayan Society of Life Sciences, April 28-30, Piriápolis, URUGUAY).*
7. 1995 Brauer MM, Novoa JE, Zucchi A y **Corbacho AM**. Valor predictivo de la microscopía electrónica y la citoquímica ultraestructural en las fases evolutivas de la leucemia mieloide crónica. Experiencia de colaboración clínico-básica. VII Jornadas Científicas de la Sociedad Uruguaya de Biociencias, 28 al 30 de abril, Piriápolis, URUGUAY. (*Brauer MM, Novoa JE, Zucchi A and **Corbacho AM**. Electron microscopy and ultrastructural cytochemistry in the evolution of the chronic myeloid leukemia: predictive value. VII Meeting of the Uruguayan Society of Life Sciences, April 28-30, Piriápolis, URUGUAY).*
8. 1996 **Corbacho, A.**, López-Gómez, FJ., Macotela, Y., Torner, L., Dueñas, Z., Martínez de la Escalera, G. y Clapp, C. Detección de prolactinas con efectos autócrinos en células endoteliales humanas (# C167). XXXIX Congreso Nacional de la Sociedad Mexicana de Ciencias Fisiológicas, 22 al 26 de septiembre, Puebla, MEXICO. (***Corbacho, A.**, López-Gómez, FJ., Macotela, Y., Torner, L., Dueñas, Z., Martínez de la Escalera, G. and Clapp, C. Detection of prolactin with autocrine effects in human endothelial cells. Meeting of the Mexican Society of Physiology, September 22-26, Puebla, Mexico).*
9. 1997 Clapp C, López-Gómez FJ, Nava G, Macotela Y, Acosta E, Torner L, **Corbacho A**, Arroyo A and Martínez de la Escalera G. Expression of the prolactin gene in endothelial cells. Evidence for an autocrine effect, 79th Annual Meeting of the Endocrine Society, June 11-14 (OR29-3 Vol I pp 99) Minneapolis, US.
10. 1997 **Corbacho AM**, Macotela Y, Torner L, López-Gómez FJ, Dueñas Z, Noris G, Ochoa A, Morales MA, Berger P, Martínez de la Escalera G and Clapp C. Synthesis and secretion of prolactin-like proteins in endothelial cells, 79th Annual Meeting of the Endocrine Society, June 11-14 Minneapolis, US.
11. 1998 Dueñas Z, Torner L, **Corbacho AM**, Gutiérrez G, Barrios F, Martínez de la Escalera G and Clapp C. Effects of 16kDa prolactin and of prolactin antibodies on in vivo angiogenesis. 80th Annual Meeting of the Endocrine Society, P2-268, June 23-26, New Orleans, Louisiana, US.
12. 1998 Clapp C, **Corbacho A**, Dueñas Z, Mejía S, Nava G, Noris G, Macotela Y, Morales MA and Martínez de la Escalera G. Prolactins with effects on angiogenesis. 80th Annual Meeting of the Endocrine Society, June 23-26, New Orleans, Louisiana, US.
13. 1998 Ochoa A, Dueñas Z, **Corbacho A**, Nava G, Clapp C and Martínez de la Escalera G. Isolation, culture and characterization of rat retinal endothelial cells. Evidence for the expression of prolactin by

retinal endothelium. 80th Annual Meeting of the Endocrine Society, OR18-4, June 23-26, New Orleans, Louisiana, US.

14. 1998 Nava G, Torner G, Dueñas Z, **Corbacho A**, Cajero M, López-Barrera F, Martínez de la Escalera G, and Clapp C. Efecto de los estrógenos sobre la expresión y el procesamiento de prolactina en el sistema hipotalámico –neurohipofisario. XLI Congreso Nacional de la Sociedad Mexicana de Ciencias Fisiológicas, San Luis Potosí, MEXICO. (*Nava G, Torner G, Dueñas Z, **Corbacho A**, Cajero M, López-Barrera F, Martínez de la Escalera G, and Clapp C. Effects of estrogen on the expression and processing of prolactin in the hypothalamus-neurohypophysis system. XLI Meeting of the Mexican Society of Physiology, San Luis Potosí, Mexico. 0107).*
15. 1998 Caicedo R, Nava G, Dueñas Z, Cruz J, Noris G, **Corbacho A**, Vázquez J, Quiroz H, Martínez de la Escalera G and Clapp C. Determinación de prolactina y su ARN mensajero en tejidos y fluidos oculares de pacientes con retinopatía del prematuro. XLI Congreso Nacional de la Sociedad Mexicana de Ciencias Fisiológicas, San Luis Potosí, MEXICO. (*Caicedo R, Nava G, Dueñas Z, Cruz J, Noris G, **Corbacho A**, Vázquez J, Quiroz H, Martínez de la Escalera G and Clapp C. Determination of prolactin and its mRNA in ocular tissues and fluids from patients with premature rethinopathy. XLI Meeting of the Mexican Society of Physiology, San Luis Potosí, MEXICO).*
16. 1998 **Corbacho AM**, Nava G, Noris G, Eiserich JP, Freeman BA and Clapp C. Prolactin in pulmonary epithelium: a potential autocrine modulator of lung cell nitric oxide production. 5th Annual Meeting of the Oxygen Society, 19-23 Nov, Washington DC, US; abstract 105.
17. 1999 **Corbacho AM**, Nava G, Noris G, Eiserich JP, Duenas Z, Freeman BA and Clapp C. Prolactin expression down-regulates nitric oxide production by human lung epithelial cells: a novel autocrine effect. 81 st Annual Meeting of The Endocrine Society, 12-15 Jun, San Diego, California, US; abstract p2-515.
18. 2000 **Corbacho AM**, Nava G, Eiserich JP, Noris G, Macotela Y, Struman I, Martínez de la Escalera G, Freeman BA and Clapp C. Stimulation of nitric oxide production by the 16 kDa N-terminal fragment of prolactin: A novel proinflammatory cytokine-like activity. First International Conference-Biology, Chemistry, and Therapeutic Applications of Nitric Oxide, June 3-7, San Francisco, California, US; abstract 286.
19. 2001 **Corbacho AM**, JP Eiserich, L Packer, CE Cross, UC Obermüller-Jevic (2001) Effects of Lycopene in prostate epithelial cells and endothelium. 8th Annual Meeting of the Oxygen Society, Nov 15-19, Research Triangle Park, NC, USA; abstract 62.
20. 2001 Obermüller-Jevic UC, **Corbacho AM**, Cross CE, van der Vliet A, Esperitu I and Witschi HP. Antioxidant but not chemopreventive effect of beta-carotene in tobacco-smoke exposed mice. 8th Annual Meeting of the Oxygen Society, Nov 15-19, Research Triangle Park, NC, USA; abstract 82.
21. 2001 Schock BC, **Corbacho AM**, Leonard S, Obermüller-Jevic, Valacchi G, van der Vliet A, Cross CE and Traber MG. iNOS-induction by LPS or O₃-exposure is attenuated in TTP knockout mice (#93). 8th Annual Meeting of the Oxygen Society, Nov 15-19, Research Triangle Park, NC, USA; abstract 93.
22. 2001 Phung AD, Wilson M, Arnold RS, Lambeth JD, Bulinski JC, **Corbacho AM** and Eiserich JP. Redox Regulation of alpha-tubulin tyrosination by non-phagocytic NAD(P)H oxidases. 8th Annual Meeting of the Oxygen Society, Nov 15-19, Research Triangle Park, NC, USA, abstract 172.
23. 2001 Macotela Y, Mendoza C, **Corbacho A**, Zentella A, Martínez de la Escalera G y Clapp C. La prolactina 16K activa al factor nuclear kappa B (NFkB) en fibroblastos. XLIV Congreso Nacional de Ciencias Fisiológicas, del 26 al 30 de agosto, Monterrey, MEXICO. (*Macotela Y, Mendoza C, **Corbacho A**, Zentella A, Martínez de la Escalera G and Clapp C. 16K PRL activates the nuclear factor kappa B (NFkB) in fibroblasts. XLIV Meeting of the Mexican Society of Physiology, August 26-30, Monterrey, MEXICO).*
24. 2002 Macotela Y, Mendoza C, **Corbacho AM**, Zentella A, Jeziorski MC, Martínez de la Escalera G and Clapp C. 16K prolactin activates NF-kB in fibroblasts through degradation of Ikb-b. 84th Annual Meeting, The Endocrine Society, June 19-22, San Francisco, California, US.
25. 2002 Gonzalez C, **Corbacho AM**, Martínez de la Escalera G y Clapp C. Efecto del fragmento N-terminal de 16 kDa de la prolactina sobre la produccion de oxido nitrico por el endotelio vascular. XLV Congreso Nacional de Ciencias Fisiológicas. Septiembre, Colima, MEXICO. (*Gonzalez C, **Corbacho AM**, Martínez de la Escalera G and Clapp C. Effect of the 16 kDa N-terminal fragment of prolactin on*

the nitric oxide production by vascular endothelial cells. XLV Meeting of the Mexican Society of Physiology, September, Colima, CO, MEXICO).

26. 2003 **Corbacho AM**, Macotela Y, Nava G, Eiserich JP, Martínez de la Escalera G, Clapp C and Cross CE. Modulation of Nitric Oxide Synthesis by PRL. American Thoracic Society, International Conference, May 18-21, Seattle, Washington, US; abstract C113-H47.
27. 2003 U C Obermüller-Jevic, **A M Corbacho**, C E Cross, A van der Vliet, I Esperitu, H P Witschi. No Chemoprevention By Beta-Carotene In Tobacco Smoke-Exposed Mice. American Thoracic Society, International Conference, May 18-21, Seattle, Washington, US; abstract D98-412.
28. 2003 **Corbacho AM**, Schock B, Olano-Martin E, Valacchi G, Clapp C, Eiserich JP and Cross CE. Down-Regulation of Prolactin Receptor Expression during Inflammation. The Endocrine Society's 85th Annual Meeting, June 19-22, Philadelphia, PA, US.
29. 2003 **Corbacho AM**, Cross CE, Clapp C, Eiserich JP. 16K Prolactin Inhibits Endothelium-Dependent Vascular Relaxation. The Endocrine Society's 85th Annual Meeting, June 19-22, Philadelphia, PA, US.
30. 2003 Gonzalez C, **Corbacho AM**, Eiserich JP, Lin S-H, Martinez de la Escalera G, Clapp C. 16K Prolactin Inhibits VEGF-Induced Nitric Oxide Production in Endothelial Cells. The Endocrine Society's 85th Annual Meeting, June 19-22, Philadelphia, PA, US.
31. 2003 Macotela Y, **Corbacho AM**, Nava G, Eiserich JP, Cross CE, Martinez de la Escalera G, Clapp C. Induction of the PRL Receptor by Cytokines Correlates with Prolactin Inhibition of Cytokine-Induced Nitric Oxide Synthesis in Pulmonary Fibroblasts. Role of STAT5B and IRF-1. The Endocrine Society's 85th Annual Meeting, June 19-22, Philadelphia, PA, US.
32. 2004 **Corbacho AM**, Schock B, Olano-Martín E, Valacchi G, Clapp C, Eiserich JP and Cross CE. Prolactin in the Lung: Modulation of Nitric Oxide during Inflammation. Oxygen Club of California, March 10-13, Santa Barbara, California, US.
33. 2004 Aung HH, Chia LS, Gohil NK, Lim Y, **Corbacho AM**, Valacchi G, Cross CE and Packer L. Antioxidant activities of flavonoids from Nepenthes Gracilis. Oxygen Club of California, March 10-13, Santa Barbara, California, US.
34. 2004 Lim Y, Aung HH, **Corbacho AM**, Cross CE, Davis PA and Valacchi G. Modulation of cutaneous wound healing by ozone in murine model. Oxygen Club of California, March 10-13, Santa Barbara, California, US.
35. 2004 Valacchi G, Cross CE, Lim Y, Aung HH, **Corbacho AM** and Davis PA. Cigarette smoke-induced stress responses in murine skin. Oxygen Club of California, March 10-13, Santa Barbara, California, US.
36. 2004 Valacchi G, Vasu V, Cross CE, **Corbacho AM**, Phung A, Davis P, Aung HH, Lim Y and Gohil K. Quantitative changes in TTP, SRB1 and ABCA1 gene expression in murine lungs with age and upon exposure to environmental pollutants. 11th Annual Meeting of the Society for Free Radical Biology and Medicine Nov 17-21, St. Thomas, Virgin Islands, US; abstract 96.
37. 2004 Spence DR, Cross CE, Valacchi G and **Corbacho AM**. Pro-inflammatory cytokines and NO inhibit prolactin (PRL) mitogenic effect on lymphocytes: Implications on PRL receptor expression. 11th Annual Meeting of the Society for Free Radical Biology and Medicine Nov 17-21, St. Thomas, Virgin Islands, US; abstract 112.
38. 2004 **Corbacho AM**, Eiserich JP, Zúñiga L, Valacchi G, Cross CE, Villablanca A. Altered vascular reactivity in male estrogen receptor alpha knock-out mice during acute inflammation. 11th Annual Meeting of the Society for Free Radical Biology and Medicine Nov 17-21, St. Thomas, Virgin Islands, US; abstract 212.
39. 2005 Lim Y, Vasu VT, Gohil K, **Corbacho AM**, Ma Aung HH, Valacchi G, Traber MG, Kenyon NJ and Cross CE. Role of Vitamin E in Allergic Responses Induced by Inhaled Ovalbumin Exposure in  -Tocopherol Transfer Protein (TTP) Null Mice. Experimental Biology (FASEB) and XXXV International Congress of Physiological Sciences, April 2-4, San Diego, CA, US; abstract 279.12.
40. 2005 Aung HH, **Corbacho AM**, Valacchi G, Vasu VT, Lim Y, Obermueller-Jevic UC, Cross CE, Packer L and Gohil K. Modulatory Effects of Carotenoids (CAR) on Cigarette Smoke (CS)-Induced Lung Inflammatory-Immune Processes. Experimental Biology (FASEB) and XXXV International Congress of Physiological Sciences, April 2-4, San Diego, CA, US; abstract 291.3.

41. 2005 Vasu VT, Valacchi G, Yokoyama WH, Cross CE, **Corbacho AM**, Phung A, Davis PA, Lim Y, Aung HH and Gohil K. Aging and Oxidant Pollutants Modulate Genes Related to Vitamin E Transport, Experimental Biology (FASEB) and XXXV International Congress of Physiological Sciences, April 2-4, San Diego, CA, US; abstract 796.2.
42. 2005 Valacchi G, Vasu V, Yokoyama WH, Cross CE, **Corbacho AM**, Phung AM, Davis PA, Lim Y, Aung HH and Gohil K. Vitamin E transport: Effect of Age and Environment Pollutants in Lung Tissue. Experimental Biology (FASEB) and XXXV International Congress of Physiological Sciences, April 2-4, San Diego, CA, US; abstract 969.1.
43. 2005 **Corbacho AM**, Godzdanker R, Nemeth S, Lim Y, Aung HH, Vasu V, Valacchi G and Cross C. Expression of prolactin and estrogen receptors and gender differences in lung inflammation. ENDO 2005, The Endocrine Society's 87th Annual Meeting, June 4 – 7 in San Diego, California, US; abstract P3-675.

SCIENCE EDUCATION ABSTRACTS




44. 2007 Molinaro M, Castori P, Wright M and **Corbacho A**. Introducing and Engaging Diverse High School Students to Biophotonics Through Multi-Year Courses. June 3-5, 2007, Ottawa Convention Center, Ottawa, Ontario, Canada.
45. 2009 **Corbacho, A.M.**, Galosy, J.A., McCombs, M.R., Molinaro, M. (2009). Investing in diversity: The effects of an integrated approach to summer undergraduate research internships on program participants. Oral presentation for panel entitled: The power of groups: Building community among students. 3rd Annual Conference on Understanding Interventions that Broaden Participation in Research Careers, May 7-9, 2009, Bethesda, MD.
46. 2009 **Corbacho, A.M.**, Galosy, J.A., McCombs, M.R., Molinaro, M. (2009). Saving T.O.M.: A problem-based approach to preparing community college students for research internships and STEM careers. Poster presented at 3rd Annual Conference on Understanding Interventions that Broaden Participation in Research Careers, May 7-9, 2009, Bethesda, MD.
47. 2009 **Corbacho, A.M.**, Galosy, J.A., McCombs, M.R., Molinaro, M. (2009). CCWinter Program: Access to first research experiences for community college students. Poster presented at 3rd Annual Conference on Understanding Interventions that Broaden Participation in Research Careers, May 7-9, 2009, Bethesda, MD.
48. 2009 Galosy, J.A., **Corbacho, A.M.**, McComb, M.R., Molinaro, M. (2009). Biophotonics: Bringing Contemporary Science and Science Education Together. Annual Meeting of the Association of Science Teacher Educators, Hartford, Connecticut.
49. 2009 **Corbacho, A.M.**, McComb, M.R., Galosy, J.A., Molinaro, M. (2009). Introduction to Biophotonics. Annual meeting of the California Association of Chemistry Teachers, Pleasant Hill, CA.

DIVERSITY EFFORTS/ DIVERSITY AWARENESS EDUCATION in STEM

WORKSHOP DEVELOPMENT and FACILITATION

2006 to present **'Challenging Stereotypes' Workshop**. Conceptualized, developed and instructed by Dr. Corbacho and Marla Leech, the CBST Diversity External Consultant. The workshop is designed to raise awareness on cultural stereotypes of all types, while offering a highly interactive, fun, fresh, eclectic and non-confrontational opportunity to address shared responsibilities on diversity issues through talk and play. The goal is to steer the discussion on diversity into the broadest possible aspects, including gender, ethnicity, religion and class; but takes it a step further to include stereotypes related to college institutions, majors, scientific areas and professions. A unique characteristic of this workshop is that incorporates activities to challenge the most common stereotypes associated with scientific professions.

The workshop has been adapted for different programs and audiences:

-  CURE High School Program, 16-22 students (9th & 10th grades).
-  Community College Winter Research Program (CCWinter/FASTRAC), 15-24 students.
-  Summer Research Internship for Undergraduates, 25-60 students.

MENTORING and ADVISING

- 2006 to present Mentored over 300 diverse undergraduate students on professional identity development and career pathways.
- 2006 to present 40–60 individual advisory meetings (annually) with diverse undergraduate students. Advised on career pathways, campus life, transferring to UCD, job applications, grad and med school applications, letters or recommendation, etc.
- 2007 to present Mentoring Workshops for graduate students and post-doctoral fellows participating in summer research programs for undergraduates

PRESENTATIONS

- 2008 -present **Biophotonics and Research Programs**, STEM Transfer Day for Community College Students - Educational Enrichment Opportunities Session. Community college potential UCD transfer students, UC Davis.
- 2010 **Investing in STEM Diversity: An Integrated Approach**, Aug. 31, *National Science Foundation*, Science and Technology Centers - Education/Diversity Conference, Arlington, VA.
- 2010 **Research Programs for Community College and Undergraduate Students**, Aug. 30, *National Science Foundation*, Science and Technology Centers - Education/Diversity Conference, Arlington, VA.
- 2010 **Biophotonics and Research Programs**, Feb. 10, *MESA Program* Students, Solano Community College, Solano, CA.
- 2010 **Life Science Panel**, Oct 16, *Northern California Forum for Diversity in Graduate Education*, Undergraduate Students from Underrepresented Groups, California State University Sacramento, Sacramento, CA.
- 2009 **Broadening Participation in STEM**, May 27, *National Science Foundation*, CBST Site Visits, UC Davis.
- 2009 **The power of groups: Building Community Among STEM Students**, May 8, NIH Third Annual Conference on Understanding Interventions that Broaden Participation in Research Careers.
- 2009 **A Model of Inclusive Excellence**, March 3, Center for Biophotonics Science and Technology-Education Peer-Review Committee, Sacramento, CA.
- 2008 **Biophotonics and Research Programs at UCD**, Sept 20, 3rd Basic and Advanced Science and Technology Academies of Research (BA STAR)- Science and Engineering Research Symposium for Community College Students, Sacramento State University, Sacramento, CA.
- 2008 **Research Opportunities at UCD**, Feb 1, *Center for Science Excellence (CSE)*, Contra Costa Community College, San Pablo, CA.

COMMITTEES

- 2011-2012 **Chair** - Academic Federation Committee on Affirmative Action & Diversity, UCD.
- 2011 **Committee Member** (May- Oct) - UCD Platinum Sponsorship of the SACNAS Annual Meeting - Planning Committee for the Campus Visit & Participant and Booth Host at the Conference Site.
- 2009-2012 **Academic Federation Representative** - Academic Senate Affirmative Action & Diversity Committee, UC Davis.
- 2008-2012 **Organizing Committee Member** - STEM Transfer Day for Community College Students. In collaboration with the Undergraduate Research Center.
- 2009 **Selection Committee Member**. Los Ríos Community College District - MESA Fellowship
- 2006 **'Hands-On Future Tech II'**, *Norfolk State University, Norfolk VA*, October 18, 2006 (conference for diverse undergraduate students). Primary responsibility for CBST organization of the conference. Co-organized program, outreach and recruitment with other NSF Science and Technology Centers and with Norfolk State University (NSU). Designed web-page, and electronic application form. Analyzed data of applicants and coordinated with other institutions. Main responsibility for budgeting and travel planning for 25 students and faculty.

PARTNERSHIPS/COLLABORATIONS

- 2012 to present Collaboration/Partnership with the **UCD Undergraduate Research Center (URC)** and the **UCD McNair Scholars Program**. Facilitated a one-week boot-camp like experience for summer research students (First Week Intensive, 35 h).
- 2012 Collaboration/Partnership with the **Biology Undergraduate Scholars Program (BSUP)** to co-host summer poster symposium for undergraduate students.
- 2009 to present Collaboration/Partnership with the **Center for Science Excellence (CSE)** at Contra Costa

Community College, San Pablo, CA to host underrepresented students as summer interns at UCD.

- 2008 to present Collaboration/Partnership with the **UCD Undergraduate Research Center (URC)** to host STEM undergraduates participating in the **California Alliance for Minority Participation Program (CAMP)** as summer interns in the CBST Summer Internship.
- 2007 to present Collaboration/Partnership with **Northern California Community College Math Engineering and Science Achievement (MESA) Programs** for the participation of community college students in research programs at UCD.

CONTINUED EDUCATION (Participant)

- 2009 **Diversity Awareness Education**, Diversity Education Program, Campus Community Relations, Offices of the Chancellor and Provost, University of California, Davis, Sept 17-18, 2009.
- 2009 **Advising Diverse Student Populations** Workshop, UC Davis Staff Development & Professional Services
- 2009 **Leading and Managing in a Multicultural Community**, Workshop, UC Davis Staff Development & Professional Services.
- 2008 **Non-Violence Communication Training**, 15 sessions, NVC Sacramento.
- 2007 **Introduction to Mediation, Facilitation and Community Engagement**, 10 wk course UC Davis Extension.
- 2007 **Facilitating Group Dynamics**, Workshop, UC Davis Extension, Fall 2007
- 2007 **Facilitating Effective Public Meetings**, Workshop, UC Davis Extension, Fall 2007
- 2006 **Mentoring Skills**, Norfolk State University, Norfolk VA, October 2006.

GRANTS

COMPLETED RESEARCH SUPPORT

RT-076-N Corbacho (PI) 07/01/02 - 06/31/04
ALA/ALAC (American Lung Association and ALACalifornia) Postdoctoral Fellowship, Pulmonary and Critical Care Medicine, Department of Internal Medicine, School of Medicine, UC Davis.
Title: Prolactin in the Lung: Modulation of Nitric Oxide (NO).
Aim: To define the role of PRL in the modulation of NO production and its participation in the molecular mechanisms underlying pulmonary inflammation.
Role: PI, postdoctoral fellow

CN-02-92 Eiserich-Clapp (PIs) 07/01/02 - 06/31/04
UC-MEXUS Research Grant
Title: Role of Prolactin as a Regulator of Vascular Endothelial Function.
Aim: To evaluate the effect of 16K PRL on the activity and expression nitric oxide synthases in endothelial cells and the contribution of NO-dependent mechanisms to the anti-mitogenic and vasoconstrictive actions of 16K PRL.
Role: Co-author and researcher

T32 HL07013-26 Wu (PI) 07/01/04 - 06/31/06
NIH/NHLBI
Interdisciplinary Program in Lung biology, Pulmonary and Critical Care Medicine, Department of Internal Medicine, School of Medicine, UC Davis.
Role: Postdoctoral Fellow Trainee (Advisor: Carroll E. Cross, M.D.)

NSF Center for Biophotonics Science and Technology 8/1/07-7/31/12

Goals and Role: The goal of the overall project is: Through the Development and Application of Biophotonics, Foster Major Breakthroughs in the Life Sciences and Medicine. My role in the project as Higher Education leader is to develop and direct research internship programs for undergraduates and community college students. #PHY-0120999.

P30 CURE Supplement - 07/11-06/16

Goals and Role: This project cover two years of training in cancer research for a total of sixteen students: Year One: initial three-month summer internship continuing with nine months of research and participation in various

didactic cancer research activities (Cancer Center Symposium and exposure to shared facilities), Year Two: participation in a second summer internship for an advanced full-time research experience and to serve as peer-mentors of the newly recruited CURE cohort; CURE laboratories immersion, continuing with nine months of research, application to professional schools and/or preparation of a diversity supplement to fund a post-baccalaureate research year prior to entering a professional school. I am the supplement Project Director. NIH/NCI grant # P30 CA093373.

Emerging Technologies Continuing Umbrella of Research Experiences (ETCURE) 9/1/08 - 8/31/11.

Goals and Role: The goals of the project are to create a pilot program to increase diversity in cancer science research by recruiting exceptional undergraduate students and engaging them in an 18-month mentoring and research experience and to develop an evidence-based model for dissemination. I was responsible for the summer internship program and mentoring of students. This is a supplement to the UC Davis Cancer Center grant # 5P30CA093373-06S1.

LANGUAGES

Fluently speak, read and write in Spanish and English. Native Spanish speaker.

1989 First Certificate in English, University of Cambridge, UK.

2006 Certified translator in the language combination English-Spanish by the American Translators Association.

2006-2009 Translator and interpreter (English-Spanish) for diverse organizations.