Kimberly L. D'Anna-Hernandez, Ph.D Assistant Professor Dept of Psychology, SBSB 3229 333 S. Twin Oaks Valley Rd San Marcos, CA 92026 760-750-8275 kdanna@csusm.edu

EDUCATION

Michigan State University, *East Lansing, MI*B.S., Zoology, Animal Behavior/Neurobiology, May 2003
Formal specialization in Chicano/Latino Studies

University of Wisconsin-Madison, Madison, WI

Ph.D. Zoology, Behavioral Neuroscience, May 2008

Doctoral Thesis: The underlying neuromechanisms of maternal defense behavior in Mus musculus

(Dr. Stephen Gammie, PhD, advisor)

PROFESSIONAL POSITIONS

Assistant Professor, California State University San Marcos

2011-present

Department of Psychology

Research: Translational developmental neuroscience research in both human and mouse models focused on the hormonal effects of stress in the perinatal period on maternal depression, adverse perinatal outcomes and early child development

Postdoctoral Fellow, *University of Colorado Denver*

2008-2011

Department of Psychiatry

Research: The influence of acculturation and maternal hypothalamic pituitary adrenal-axis functioning (as measured by cortisol) on maternal depression, adverse perinatal outcomes and early child development

(Drs. Randy Ross and Mark Laudenslager, co-advisors)

Graduate Research Assistantship

2003-2008

University of Wisconsin-Madison, Department of Zoology

Research: The influence of central stress/anxiety and arousal systems on maternal defense behavior in mice and potential targets for maternal behavior neurocircuitry

(Dr. Stephen Gammie, advisor)

HONORS

- 2015 Assigned Time for Exceptional Service to Students Award, CSUSM
- 2015 Simms/Mann Foundation Zero to Three Faculty Award
- 2015 CSUPERB Faculty Travel Award, California State University system
- 2014 American Association of Hispanics in Higher Education Faculty Fellow
- 2013 Perinatal Mental Health Meeting Travel Scholar Awardee
- 2013 PRIDE: Investing in America's Future: Mentoring Researchers in Latino Health Disparities mentee
- 2011 Trainee Award, Psychoneuroimmunology Research Society
- 2010 Department of Psychiatry Poster Session Winner, University of Colorado Denver
- 2008 Society for the Advancement of Chicano and Native American Scientists Travel Scholarship
- 2008 American Association of Hispanics in Higher Education Graduate Fellow
- 2007 Young Investigator Award, Workshop on Steroid Hormones and Brain Function
- 2005 Women in Neuroscience Student Travel Award, Neuroscience Conference
- 2005 Young Investigator Travel Award, Winter Neuropeptide Conference

FELLOWSHIPS

- 2010 Developmental Psychobiology Research Group Postdoctoral Fellow (NIH T32), University of Colorado Denver
- 2008 National Science Foundation Minority Postdoctoral Research Fellow
- 2007 Ford Foundation Dissertation Fellowship
- 2006 Diversity Program in Neuroscience Pre-Doctoral Fellowship, American Psychological Association
- 2006 Business Forum Scholarship, Dane County Women's Business Forum
- 2003 Advanced Opportunity Fellowship, University of Wisconsin

TRAINING

Faculty Fellow Participant, San Diego State University

Summer 2013-2014

PRIDE Summer Institute

Faculty Participant in NIH/NHLBI R25 Programs to Increase Diversity among Individuals Engaged in Health-Related Research (PRIDE) Summer Institute on Mentoring Researchers in Latino Health Disparities at San Diego State University, San Diego, California 2013 – 2014. Training focused around research methods and design, as well as scientific and grant writing related to health disparities in Latinos. (PIs: J Elder & G Talavera)

ACTIVE RESEARCH SUPPORT

Community Engagement Award

California State University San Marcos

Providing culturally competent care for women at risk for obesity-related health complications during pregnancy

Role: PI

Awarded: 6/2016-6/2017

(This project is designed to conduct a pilot intervention at Vista Community Clinic with women at risk for obesity-related pregnancy complications. Intervention modules will focus on the role of maternal environment in the programming of offspring development 0-3 years of age)

CSUPERB

California State University System

The postnatal role of hypocretin in maternal depressive-like behaviors in miceRole PI:

Awarded Period: 6/2016-12/2017

(The aim of this proposal is to address the role of HCRT in maternal depressive-like behaviors which include alterations in arousal, motivation and reward)

National Institute of Health

Academic Research Enhancement Award (AREA) (R15)

Acculturation, mood and stress response in Mexican-American mother-infant dyads

Role: PI

Awarded: 12/2013-12/2017

(These funds will examine the association between cultural factors and increased risk for mental health during pregnancy, as well as evaluate the effect of acculturation on increased stress vulnerability in neonates in the US Mexican population)

COMPLETED RESEARCH SUPPORT

University Professional Development Grant

California State University San Marcos

Postnatal Interactions of Stress and Arousal Peptide Systems May Influence Maternal Defense Behavior in Mice

Role: PI

Award Period: 6/2014-5/2015

(These funds will investigate the role of the neuropeptide hypocretin/orexin (HCRT/OX) in the maternal defense behavior in mice and corresponding changes in neuronal activiation)

University Professional Development Grant

California State University San Marcos

Postnatal alterations of the hypocretin/orexin system may influence depressive behavior

Role: PI

Award Period: 6/2013-5/2014

(These funds will investigate the role of the neuropeptide hypocretin/orexin (HCRT/OX) in the performance and motivation of maternal behavior in mice)

University Professional Development Grant

California State University San Marcos

Research training in a maker for early infant brain development methodology and statistical analysis

Role: PI

Award Period: 6/2012-5/2013

(These funds will provide training for a larger research project to determine if the effect prenatal maternal cortisol associated with maternal stressors is reflected in infant P50, early marker of brain activity)

Grant Proposal Seed Money

California State University San Marcos

Postnatal Alterations of the Hypocretin/orexin System May Influence Depressive Behavior

Role: PI

Award Period: 1/2012-12/2012

(This is a study investigating the role of the arousal-related neuropeptide hypocretin/orexin on depressive behavior in the postpartum period in mice)

National Association for Research on Schizophrenia and Depression (NARSAD)

Young Investigator Award

Maternal cortisol as markers of prenatal stress on P50 auditory sensory gating in infants

Role: Principal Investigator Award Period: 1/2011-6/2014

(This is a study investigating the relationship between prenatal stress via measures of prenatal maternal acute and chronic cortisol exposure and determine which is more closely related to an early marker of brain development and functioning, the P50 auditory gating paradigm, related to risk for schizophrenia)

Newborn Hope, Inc.

Fetal adrenal size as a marker of preterm birth

Role: Co-investigator

Award Period: 1/2011-12/2011

(This is a study investigating an early marker of an increased risk of preterm birth, fetal adrenal size as measured by ultrasound)

Colorado Clinical and Translational Sciences Institute

Child Maternal Health Award

Hair cortisol has a biomarker of chronic stress in pregnant women

Role: Co-investigator Awarded: 1/2011-1/2013

(This is a study investigating the relationship between maternal-fetal stress systems via maternal and fetal hair cortisol and fetal adrenal gland imaging as markers of perinatal stress)

University of Colorado Denver

Developmental Psychobiology Endowment Fund recipient

Hair cortisol has a biomarker of chronic stress in pregnant women

Role: Co-investigator Awarded: 2/2009

(This is a pilot study for a developing a novel measurement of cortisol in hair)

PUBLISHED MANUSCRIPTS (*-denotes work with trainee coauthors)

1. Preciado, A.* & D'Anna-Hernandez, K.L. (2016) Acculturative stress and trajectory of anxiety

- symptoms during pregnancy in Mexican-American women. Journal of Anxiety Disorders: in press.
- 2. Hoffman, M.C., **D'Anna-Hernandez, K.L.**, Benitez, P., & Laudenslager, M.L. (2016). Cortisol during human fetal life: Characterization of a method for processing small quantities of newborn hair from 26 to 42 weeks gestation. Developmental Psychobiology: in press.
- **3. D'Anna-Hernandez, KL**, Garcia, E*, Hoffman, MC, Ross, RG, and Laudenslager, ML. (2016). Alterations in sleep patterns lead to adverse birth outcomes in Mexican-American women. Maternal and Child Health: 20(2): 422-433.
- **4. D'Anna-Hernandez, KL**, Aleman, B, Flores, AM. (2015) Acculturative stress, but not acculturation, predicts maternal depression in Mexican-American women during pregnancy. Journal of Affective Disorders: 176: 35-42.
- **5. D'Anna, KL**, Hunter, SK, Zerbe, GO and Ross, RG (2013). Paternal substance abuse disorders worsen the trajectory of maternal depressive symptoms during the first year postpartum, Mental Illness: 5:e1.
- **6.** *Hunter SK, Mendoza JH, **D'Anna K**, Zerbe G, McCarthy L, Hoffman C, Freedman R, Ross RG (2012). Antidepressants may mitigate the effects of prenatal maternal anxiety on infant auditory sensory gating. American Journal of Psychiatry: 169(6): 616-624.
- 7. D'Anna-Hernandez, KL, Hoffman, MC, Coussons-Read, ME, Laudenslager, ML, and Ross, RG. (2012). Maternal blunted cortisol slope during pregnancy is associated with acculturation and low infant birth weight in US Mexican women, Psychosomatic Medicine: 74(3):296-304
- **8.** *Coussons-Read, ME, Lobel, MJ, Carey, JC, Kreither, MO, **D'Anna**, KL, Argys, L., Ross, RG, Brandt, C, Cole, S. (2012). The occurrence of preterm delivery is linked to pregnancy-specific distress and elevated inflammatory markers across gestation. Brain Behavior and Immunity: 26(4): 650-659.
- **9. D'Anna-Hernandez, KL**, Ross, RG, Natvig CL, and Laudenslager, MLL. (2011). Hair cortisol levels as a marker of stress during pregnancy: Comparison to salivary cortisol, Physiology and Behavior. 104(2): 348-353.
- **10.** Gammie SC, **D'Anna KL**, Gerstein H, Stevenson SA. (2009). Neurotensin inversely modulates maternal aggression. Neuroscience. 158(4): 1215-23.
- **11. D'Anna KL** and Gammie SC. (2009). Activation of corticotropin-releasing factor receptor 2 in lateral septum negatively regulates maternal defense. Behavioral Neuroscience. 123(2): 356-68.
- **12. D'Anna KL**, Stevenson SA, Gammie SC. (2008). Maternal profiling of corticotropin-releasing factor receptor 2 deficient mice in association with restraint stress. Brain Research. 1241: 110-21.
- **13.** *Gammie SC, Edelmann MN, Mandel-Brehm C, **D'Anna KL**, Auger AP, Stevenson SA. (2008). Altered dopamine signaling in naturally occurring maternal neglect. PLoS ONE. 3(4): e1974.

- **14. D'Anna KL** and Gammie SC. (2006). Hypocretin-1 dose-dependently modulates maternal behaviour in mice. Journal of Neuroendocrinology. 18(8):553-66.
- **15. D'Anna, KL**., Stevenson, SA and Gammie, SC. (2005). Urocortin 1 and Urocortin 3 impair maternal defense behavior in mice. Behavioral Neuroscience, 119(4):1061-71.
- **16.** Gammie SC, Hasen NS, Stevenson SA, Bale TL, **D'Anna, KL**. (2005). Elevated stress sensitivity in corticotropin-releasing factor receptor 2 deficient mice decreases maternal, but not intermale aggression. Behavioural Brain Research, 160(1):169-77.

MANUSCRIPTS UNDER REVIEW

Maldonado, A.*, Buchanan, M.*, Pulvers, K., Romero, D., & **D'Anna-Hernandez, K.L.**, Salivary Creactive protein moderates the relationship between acculturative stress and state anxiety among ethnic/racial minorities, Submitted to Journal of Immigrant and Minority Health.

MANUSCRIPTS IN PREPARATION (*-denotes work with trainee coauthors)

- **D'Anna-Hernandez, KL**, Hoffman, MC, Coussons-Read, ME, Laudenslager, ML, and Ross, RG. Interactions between cortisol, proinflammatory cytokines and maternal depressive symptoms during pregnancy. In progress for submission to Biological Psychology
- **D'Anna-Hernandez, K.L.**, Glynn, L., Davis, E.P. Discrimination predicts early gestational age in Latino and Asian-American women, In progress for submission to Behavioral Medicine

BOOK CHAPTERS

Gammie, SC, **D'Anna, KL**, Lee, G, Stevenson, SA. 2008. Role of Corticotropin releasing factor-related peptides in the neural regulation of maternal defense. In R.S. Bridges (Eds.), Neurobiology of Parental Brain. Elsevier. 101-114

BOOK REVIEWS

D'Anna-Hernandez, KL. (2013). The Oxford Handbook of Psychoneuroimmunology Book Review. Brain, Behavior and Immunity, 30: 195-197.

INVITED PRESENTATIONS

- Fetal exposure to maternal cultural stressors is associated with low birthweight and fetal cortisol levels in offspring of Mexican descent. Symposium to be presented at the International Society for Developmental Psychobiology Conference in San Diego, CA in November 2016.
- The effects of cultural adaptation and the maternal stress response across pregnancy on adverse birth outcomes. Symposium to be presented at the Society for the Advancement of Chicano/Native American Scientists Conference in Long Beach, CA in October 2016.

- Culturally relevant maternal risk factors for child mental health outcomes in Mexican and Mexican-American families. Presented at the Western Psychological Association Conference in Long Beach, CA in April 2016.
- Prenatal exposure to cultural stressors and maternal mental health are associated with physiological and behavioral stress reactivity in infants of Mexican descent. To be presented at the Annual Psychosomatic Medicine Conference in March 2016.
- Acculturative stress impacts maternal depressive symptoms and maternal cortisol in Mexican-American women during pregnancy (2015, April). Presented at the Anxiety and Depression Conference, Miami, FL.
- The role of stress and acculturation on the Mexican-American mother-child dyad (2015, February). Presented at the University of California San Diego, Department of Pediatrics, Center for Community Health Seminar Series, San Diego, CA.
- Of Mice and Mothers: The role of stress and acculturation on maternal mental health. (2015, January). Presented at the University of California Davis Psychology Department Colloquium, Davis, CA.
- Cultural stressors influence prenatal maternal cortisol and mental health with consequences for infant outcomes in the Mexican mother-child dyad (2014, November). Presented at the 142nd American Public Health Association Annual Meeting and Exposition, New Orleans, LA.
- Cultural stressors influence prenatal cortisol and subsequent infant stress reactivity in the Mexican mother-child dyad (2014, March). Presented at the 72st Annual American Psychosomatic Medicine Conference, San Francisco, CA.
- The role of cultural values and acculturation on stress, mood and cortisol in pregnant women of Mexican descent (2013, November). Presented at the Perinatal Mental Health Meeting, Chicago, IL
- Interactions between maternal experience and hypocretin neurotransmission affect depressive-like behavior in lactating mice (2013, November). Presented at the Perinatal Mental Health Meeting, Chicago, IL
- Cortisol, acculturation, stress, mood and the protective role of cultural values in pregnant women of Mexican descent (2013, March). Presented at the 71st Annual American Psychosomatic Medicine Conference, Miami, FL.
- The neuroendocrine regulation of maternal behavior. (2012, October). Presented at Cal State San Marcos, Office of Research, Education, Training Seminar Series, San Marcos, CA
- Workshop on mentoring research students. (2012, October). Presented at the Annual Society for the Advancement for Chicano and Native American Scientist National Conference. San Jose, CA.
- Interactions between the HPA-axis and immune system predict maternal depression during pregnancy. (2011, June). Presented at the Annual Psychoneuroimmunology Research Society Meeting. Chicago, IL.
- From Mice to Mothers: The neuroendocrine regulation of maternal behavior. (2010, October). Presented at the Annual Society for the Advancement of Chicano and Native American Scientists Conference. Anaheim. CA.

- Prenatal stress, cortisol and maternal depression in mothers. (2010, September) Presented at the Developmental Psychobiology Research Group Seminar. Denver, CO.
- Hair cortisol levels as a marker of prenatal stress: Cross validation with saliva. (2010, May). Presented at the 16th Biennial Developmental Psychobiology Research Group Retreat, Golden, CO.
- Neuroendocrine regulation of maternal defense behavior (2008, October). Presented at the Annual Society for the Advancement of Chicano and Native American Scientists, Salt Lake City, UT.
- Don't Mess with Mama: The underlying neuromechanisms of maternal defense behavior (2008, April). Presented at the Department of Zoology Colloquium, Madison, WI.
- Peptide involvement in the maternal aggression displayed by mice (2007, October). Presented at the First International Congress of the International Society for Brain Behavioral Science and Medicine, Bangkok, Thailand.
- The arousal-related peptide, hypocretin, modulates maternal behavior in mice (2007, March). Presented at the Young Investigator Symposium at the Steroid Hormones and Brain Function Workshop, Breckenridge CO
- **SCIENTIFIC POSTER PRESENTATIONS** (*-denotes work with student trainee coauthors)
- Chavez, M., * Cabrera, Y., * & D'Anna-Hernandez, K.L. (2016, November). The exposure to LPS on the programming of cognitive and affective outcome in offspring. (2016, November). To be presented at the Society for Neuroscience Conference, San Diego, CA.
- Castaneda, A. *, Lane, E., Chavez, M., * Norris, H., * Hamlin, M., * & **D'Anna-Hernandez, K.L**. The effects of mild chronic variable stress and hypocretin in lactating dams during the postpartum. (2016, November). To be presented at the Society for Neuroscience Conference, San Diego, CA.
- Castaneda, A. *, McCreary, M., * & **D'Anna-Hernandez, K.L**. Central injections of hypocretin-1 impair neuronal network activity in the brains of lactating dams. (2016, October). Presented at the Society for Advancement in Chicano/Latino & Native American Scientists Conference, Long Beach, CA.
- Gonzalez, S.,* & D'Anna-Hernandez, K.L. (2016, November). C-reactive protein as a biomarker for early health complications in the newborn Latino population. Presented at the Society for Advancement in Chicano/Latino & Native American Scientists Conference, Long Beach, CA.
- Preciado, A. * and **D'Anna-Hernandez, K.L**. The role of acculturative stress on maternal anxiety in pregnant Mexican-American women. (2016, March). Presented at the American Psychosomatic Research Conference, Denver, CO.
- Luis-Sanchez, B., * and **D'Anna-Hernandez, K.L**. Socio-Cultural Stressors Fluctuate across the Perinatal Period in Mexican-American Pregnant Women. Variability (2016, March). Presented at the American Psychosomatic Research Conference, Denver, CO.
- Maldonado, A., * & **D'Anna-Hernandez, K.L.** The Influence of Maternal Cultural Stressors during Pregnancy on Offspring's Heart Rate Variability (2016, March). Presented at the American Psychosomatic Research Conference, Denver, CO.

- Chavez, M*., Mercado, D., Jaques, L., McCreary, M. & **D'Anna-Hernandez, K.L**. The Role of Sensitization and Stress on Maternal Behavior and Neuronal Activation in Lactating Mice (2015, November). Presented at the Annual Society for Neuroscience, Chicago, IL.
- Cabrera, Y.*, Norris, H.*, Holguin, G.*, Lane, E., & **D'Anna-Hernandez, K.L**. Hypocretin receptors 1 and 2 differentially regulate maternal motivation and depressive behavior in lactating dams. (2015, November). Poster presented at the Annual Society for Neuroscience, Chicago, IL.
- Norris, H., Kent, A., Grenier, N, & **D'Anna-Hernandez, K.L** Differences of Parity and Hypocretin Antagonist on Maternal Behavior & Depression in Lactating Mice. (2015, June). Poster presented at the Annual Society for Behavioral Neuroendocrinology.
- Cabrera, Y.*, Chavez, M. & **D'Anna-Hernandez, K.L.** Effects of communal nesting on depressive and maternal behaviors in mice. (2015, June). Poster presented at the Annual Society for Behavioral Neuroendocrinology.
- Chavez, M*., Mercado, D., Jaques, L., McCreary, M. & **D'Anna-Hernandez, K.L**. Effects on lactating dams compared to sensitized virgin mice (2015, June). Poster presented at the Annual Society for Behavioral Neuroendocrinology.
- McCreary, M*. & **D'Anna-Hernandez, KL**. The Effects of Site-directed Injections of Hypocretin in the Ventral Tegmental Area on Maternal Behavior in Mice (2015, June). Poster presented at the Annual Society for Behavioral Neuroendocrinology.
- *Preciado, A, **D'Anna-Hernandez, KL**. Cultural Values as Protective Factors for Anxiety and Acculturative Stress in Mexican American Pregnant Women. (2015, April). Presented at the Anxiety and Depression Conference, Miami, FL.
- *Sanchez, BE, Garcia, E, **D'Anna-Hernandez, KL**. Socio-cultural stressors influence infant stress reactivity associated with risk for depressive symptoms. (2015, April). Presented at the Anxiety and Depression Conference, Miami, FL.
- *Chim, G, Martinez, M, Cole, M, **D'Anna-Hernandez, KL**. Effects of maternal anxiety, depressive symptoms and cultural stressors on the programming of adverse infant outcomes and inflammatory processes . (2014, November). Presented at the 142nd American Public Health Association Annual Meeting and Exposition, New Orleans, LA.
- * Maldonado, A, Melchor, M, **D'Anna-Hernandez, KL**. Socio-cultural predictors of depressive symptoms in pregnant Mexican American women. (2014, November). Presented at the 142nd American Public Health Association Annual Meeting and Exposition, New Orleans, LA.
- *Chim, G, Martinez, M, Cole, M, **D'Anna-Hernandez, KL** Effects of maternal anxiety, depressive symptoms and cultural stressors on the programming of adverse infant outcomes and inflammatory processes. (2014, November) Presented at the Annual Society for the Advancement of Chicano and Native American Scientists, Los Angeles, CA.
- *Melchor, M, Maldonado, A, **D'Anna-Hernandez, KL**. Acculturative stress, maternal depression, social support, and altered salivary cortisol level in Mexican-American women. (2014, October) Presented at the Annual Society for the Advancement of Chicano and Native American Scientists, Los Angeles, CA.

- *Yeme, E, **D'Anna-Hernandez, KL** The role of discrimination stress on infant temperament in Mexican-American mothers and their infants. (2014, October) Presented at the Annual Society for the Advancement of Chicano and Native American Scientists, Los Angeles, CA.
- *Luis Sanchez, BE, Garcia, E, **D'Anna-Hernandez, KL.** Influence of acculturative stress and sleep on maternal depression and birth outcomes. (2014, October) Presented at the Annual Society for the Advancement of Chicano and Native American Scientists, Los Angeles, CA.
- *Cole, M, **D'Anna-Hernandez, KL**. Effects of acculturative-stress and early sex behavior on maternal anxiety, depression and cortisol. (2014, October) Presented at the Annual Society for the Advancement of Chicano and Native American Scientists, Los Angeles, CA.
- *Chim, G, Martinez, M, Flores, AM, Vidana, M, Garcia, E, **D'Anna-Hernandez, KL**. Maternal mood and perinatal complications in the Mexican-American population. (2013, November). Presented at the Perinatal Mental Health Meeting, Chicago, IL.
- *Flores, AM, Vidana, M, **D'Anna-Hernandez, KL.** Acculturative stress, maternal depression, and altered salivary cortisol levels in women of Mexican origin. (2013, November). Presented at the Perinatal Mental Health Meeting, Chicago, IL.
- * **D'Anna-Hernandez, KL**, McCreary, M, Kowalcyzk, A, Lane, E. (June 2013) Hypocretin may alter depressive behavior in the postpartum period in mice. Presented at the 17th Annual Society for Behavioral Neuroendocrinology Conference, Atlanta, GA.
- * McCreary, M, D'Anna-Hernandez, KL. (June 2013) Exposure to pups decreases anxiety-like behavior in sensitized virgin mice compared to lactating dams on the elevated zero maze. Presented at the 17th Annual Society for Behavioral Neuroendocrinology Conference, Atlanta, GA.
- *Kowalcyzk, A, McCreary, M, **D'Anna-Hernandez, KL**. (June 2013). Effects of hypocretin receptor1 antagonist and maternal experience on depressive-like behavior and maternal behavior in lactating mice. Presented at the17th Annual Society for Behavioral Neuroendocrinology Conference, Atlanta, GA.
- *Garcia, E, **D'Anna-Hernandez, KL**. (2013, March) Culprits of Negative Birth Outcomes in Pregnant Mexican-American Women: The Relationship between Quantity and Quality of Sleep, Depression, and Stress. Presented at the 71st Annual American Psychosomatic Medicine Conference, Miami, FL.
- *D'Anna-Hernandez, KL, Ross, RG, Coussons-Read, MC, Kreither, MK, Lobel, M, and Laudenslager, ML (2013, March) Socio-cultural correlates of maternal depression during pregnancy in the US Mexican population. Presented at the 71st Annual American Psychosomatic Medicine Conference, Miami, FL.
- *D'Anna-Hernandez, KL, Bower, K, Robinson, R, McCreary, M, LaFontaine, R. (2012, June)
 Postnatal alterations of the hypocretin/orexin system may influence depressive behavior.
 Presented at the 16th Annual Society for Behavioral Neuroendocrinology Conference, Madison, WI.

- *D'Anna-Hernandez, KL, Ross, RG, Coussons-Read, MC, Kreither, MK, Lobel, M, and Laudenslager, ML. Interactions between cortisol and acculturation predict pregnancy-related distress, but not maternal depression. Presented at the Annual Psychoneuroimmunology Research Society Meeting, San Diego, CA.
- **D'Anna, KL**, Hoffman, MC, Coussons-Read, ME, Laudenslager, ML, and Ross, RG (2011 February). Immune system changes, as measured by cytokines are, associated with levels of maternal depression during pregnancy. Presented at the 31st Annual Maternal Fetal Medicine Conference, San Francisco, CA.
- **D'Anna, KL**, Ross, RG and Laudenslager, ML (2010, June). Hair cortisol levels as a marker of prenatal stress: Cross validation with saliva. Presented at the Neurobiology of Stress Workshop, Boulder, CO.
- **D'Anna, KL**, Ross, RG and Laudenslager, ML (2010, March). Hair cortisol levels as a marker of prenatal stress. Presented at the Annual Department of Psychiatry Poster Session, Denver, CO.
- **D'Anna**, **KL** and Gammie, SC (2007 June). CRF, Urocortin 1 and 3 in the lateral septum impairs maternal aggression in lactating mice. Presented at the Parental Brain Conference, Boston, MA.
- **D'Anna, KL** and Gammie, SC (2006 October). Subthreshold stress impairs maternal aggression, but enhances pup retrieval in corticotropin-releasing factor receptor 2 deficient mice. Presented at the 36th Annual Society for Neuroscience Conference, Atlanta, GA.
- **D'Anna, KL** and Gammie SC (2006, June). Corticotropin-releasing factor in the lateral septum impairs maternal aggression in lactating mice. Presented at the 10th Annual Society for Behavioral Neuroendocrinology Conference, Pittsburgh, PA.
- **D'Anna, KL** and Gammie SC (2005, June). Hypocretin-1 dose-dependently impairs maternal aggression in lactating mice. Presented at the Annual Society for Behavioral Neuroendocrinology Conference, Austin, TX.
- **D'Anna**, **KL** and Gammie, SC (2005 November). Hypocretin-1 dose-dependently elevates pup licking and grooming behavior and impairs maternal aggression in lactating mice. Presented at the 35th Annual Society for Neuroscience Conference, Washington D.C.
- **D'Anna**, KL., Stevenson, SA and Gammie, SC (2005, January). Urocortin I and III impair maternal aggression and increase Fos-IR in the bed nucleus of the stria terminalis and lateral septum. Presented at the Winter Neuropeptide Conference, Breckenridge, CO.
- **D'Anna, KL**., Stevenson, SA and Gammie, SC (2004, October). Urocortin I and III impair maternal aggression and increase Fos-IR in the bed nucleus of the stria terminalis and lateral septum. Presented at the 34th Annual Society for Neuroscience Conference, San Diego, CA.

RELEVANT TEACHING EXPERIENCE

Tenure Track Faculty Member, Cal State San Marcos present

2011-

Physiological Psychology Lecture and Laboratory (Fall 2011, 2012, 2013, 2014, 2015)

Brain and Mind (Fall 2011, Spring, Summer, Fall 2012, Winter, Spring and Summer 2013, Fall, Winter and Summer 2014, Spring and Summer 2015, Winter 2016)

Biopsychology (Fall 2012 and Spring and Fall 2013, Spring and Fall 2014, Spring 2015)

Hormones and Behavior Graduate Seminar (Spring 2012, 2014 and Fall 2015)

Neuroscience Workshop Presenter, California State University San Marcos

2011-present

STEM Talent Expansion Program (STEP), Upward Bound, MeCha high school conference I designed, taught and supervised undergraduate volunteers in the performance various neuroscience-related workshops for underrepresented students from local high schools. These were hands-on workshops that included sheep brain dissections and neuronal activation of cricket legs using electricity.

Guest Lecturer, University of Colorado, Denver

2010

Biological Basis of Human Behavior

Behavioral Neuroscience

Mentor Training Seminar Instructor, University of Wisconsin-Madison

2008

Center for the Integration of Research, Teaching and Learning

I designed and taught weekly mentor training courses for those mentoring undergraduates in summer research programs. In addition I evaluated and made recommendation for aspects of diversity training within the program

Animal Behavior Instructor, University of Wisconsin-Madison

2008

Pre-College Enrichment Opportunity Program for Learning Excellence,

I designed and taught animal behavior summer course to underrepresented high school students in a precollege preparation program

Schools of HOPE Tutoring Program

2006-2008

Urban League of Madison, WI

I tutored at-risk high school students (in both Spanish and English) in mathematics and science weekly

DELTA Program Participant, *University of Wisconsin-Madison,*

2005

Center for the Integration of Research, Teaching and Learning

I was a participant in a seminar engaged in learning expeditions and discussions about diversity in the science, engineering and math disciplines and the campus climate in relationship to diversity. We also explored pedagogically positive ways to address diverse classrooms

Mentor, Biology Research Program, University of Wisconsin-Madison, summer 2004/2005

University of Wisconsin-Madison, Center for Biology Education, Dept of Zoology

I formally mentored 2 underrepresented undergraduates in the performance, writing and presentation of independent research project

Career Session Workshop Volunteer, University of Wisconsin-Madison Fall 2004/2005/2006 Exploring Your Horizons Conference

I managed career sessions that educated middle school-aged girls on the academic career choices, my research and shared my experiences challenges and advice about being a woman in neuroscience

Comparative Physiology Teaching Assistant, University of Wisconsin-Madison Spring 2005/6 Department of Zoology

I taught a comparative physiology laboratory and assisted students in creating and performing unique physiology experiments involving invertebrates while grading scientific papers and student presentations

Neurobiology Teaching Assistant, Michigan State University

Spring 2003

Department of Zoology

I assisted in the facilitation of an upper level undergraduate neurobiology course including design all tests and review materials

GRADUATE STUDENT TRAINEES

Defended

Alex Kowalczyk (successfully defended Spring 2015)- Postpartum changes in corticotropin-releasing hormone and hypocretin interact to impair maternal behavior in mice

Esmeralda Garcia (successfully defended Spring 2015)- Acculturation may contribute to postpartum depression and an altered infant stress response in Mexican American women and their offspring

Michael McCreary (successfully defended Fall 2015)- The role of hypocretin on maternal motivation in sensitized virgin mice

In progress

Adriana Maldonado (successfully proposed Spring 2015; projected graduation Spring 2016) Role of parental acculturation in depression and anxiety symptoms in Mexican American migrant worker children

Andrea Preciado (projected graduation Fall 2016) Role of acculturative stress on the trajectory of maternal anxiety symptoms during pregnancy

Maria Cole (projected graduation Spring 2017) Role of cultural stressors on salivary inflammatory markers in infants of Mexican descent

Arthur J Castaneda (projected graduation Spring 2017) The anti-depressant effects of hypocretin in the postpartum period in mice

Eva Urbina (projected graduation Spring 2017) – thesis topic to be determined

PROFESSIONAL SERVICE

Thesis Committee Member:

Marianne Klumph, Psychology, The impact of sensitization during adolescence on subsequent drug response in adult rats (successfully defended 2012)

- Amanda Gochez, Psychology, Ultrasonic Vocalization Response to NMDA Receptor Antagonists in Rats (successfully defended 2014)
- Sarah Neal, Psychology, Scratching as a Behavioral Indicator of Positive and Negative Arousal in Common Marmosets (successfully defended, 2015)
- Jessie Womboldt, Common marmosets' (*Callithrix jacchus*) responses to snake characteristics (successfully defended, 2015)
- Shirlee Moore, Prevalence and acceptance of sexting throughout the romantic relationship lifecycle (successfully proposed, 2014)
- Ashley Emani, Psychology, Examining the effectiveness of a gender-role specific message in improving pain tolerance among Hispanic and non-Hispanic White Women(successfully proposed, 2014)
- Christa Park, Biology, The role of maternal diet on wound healing in offspring mice (successfully proposed, 2015)
- Karli Chudeau, Psychology, The role of enrichment on cortisol levels in Harbor Seals Abraham Escobedo, Psychology, The role of methamphetamine in locomotor behavior in rats
- Research Internship in Science and Engineering (RISE) undergraduate and graduate mentor, CSUSM (2012-present)
- College of Human Arts Behavioral and Social Sciences Budget Committee member, CSUSM (2013-current)
- Psychology Program Assessment committee member, CSUSM (2013-current)
- Faculty Advisor for the CSUSM Student Chapter for the Society for the Advancement of Chicano and Native American Scientists (2011-current)
- Faculty Advisor Committee Member for the CSUSM Annual Psychology Student Research Fair (2011-current)
- Student Reinstatement Committee Member, CSUSM (Winter 2011, 2012 and 2013)
- Schizophrenia Education & Training (SET) Undergraduate Program Mentor, University of Colorado Denver (Summer 2010 and 2011)
- Summer Research Opportunities Program undergraduate mentor, U of Wisconsin (2009 and 2010)
- 12th Annual La Mujer Latina Conference executive planning committee, Univ of Wisconsin (2006-2007)
- Ad Hoc Reviewer: Psychosomatic Medicine, American Journal of Physical Anthropology, Brain, Behavior and Immunity, Stress and Health, Journal of Immigrant and Minority Health, Developmental Psychobiology, AAHHE graduate fellowships and SACNAS conference abstracts

PROFESSIONAL MEMBERSHIPS

Professional Membership: American Public Health Association

Professional Membership: Society for the Advancement of Chicano and Native American Scientists

Professional Membership: Society for Behavioral Neuroendocrinology

Professional Membership: Society for Neuroscience

Professional Membership: Psychoneuroimmunology Research Society