

## CURRICULUM VITAE

**Name:** ERIC PAUL ZORRILLA      **Mailing Address:**  
SP30-2400, Committee on the  
**Date of Birth:** June 30, 1970      Neurobiology of Addictive Disorders  
Houston, Texas      The Scripps Research Institute  
**Citizenship:** United States      10550 North Torrey Pines Road  
La Jolla, California 92037

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### Education:

Duke University, B.S., Psychology/Economics/Political Science (1991)  
University of Pennsylvania, M.A., Psychology (1992)  
University of Pennsylvania, Ph.D., Psychology (1996)

### Professional Training and Positions:

2008-present Associate Professor, Committee on the Neurobiology of Addictive Disorders, The Scripps Research Institute, La Jolla, CA

2008-present Associate Professor, Molecular and Integrative Neurosciences Department (formerly Department of Neuropharmacology), The Scripps Research Institute, La Jolla, CA

2008-present Associate Adjunct Professor, Department of Neurosciences and Neuroscience Graduate Group Member, University of California - San Diego, La Jolla, CA

2006-2008 Assistant Professor, Committee on the Neurobiology of Addictive Disorders, The Scripps Research Institute, La Jolla, CA

2003-2008 Assistant Professor, Molecular and Integrative Neurosciences Department (formerly Department of Neuropharmacology), The Scripps Research Institute, La Jolla, CA

2001-2003 Senior Research Associate, Department of Neuropharmacology, The Scripps Research Institute, La Jolla, CA (Mentor: Dr. George Koob)

1997-2001 Research Associate, Department of Neuropharmacology, The Scripps Research Institute, La Jolla, CA (Mentor: Dr. George Koob)

1996-1997 Postdoctoral Fellow, Department of Neuroscience, Neurocrine Biosciences, Inc., La Jolla, CA (Mentors: Drs. Gery Schulteis, Errol De Souza and George Koob)

1992-1996 Predoctoral Fellow, Neuroendocrinology Laboratory, Center for Neurobiology and Behavior, Departments of Psychiatry and Pharmacology, University of Pennsylvania (Mentor: Dr. Eva Redei)

- 1991-1992 Predoctoral Fellow, Learned Helplessness Laboratory, Department of Psychology, University of Pennsylvania, (Mentor: Dr. Martin Seligman)
- 1990-1991 Undergraduate Research Assistant, Neuropeptide Laboratory, Department of Psychiatry, Duke University (Supervisor: Dr. Garth Bissette)
- 1990-1991 Undergraduate Clinical Research Assistant, Mood Disorders Inpatient Unit, Duke University Medical Hospital (Supervisors: Drs. Ed Craighead and Donald Evans)

### Courses Taught or Assisted:

Neuroendocrinology / Neuroimmunology (graduate; with Eva Redei and Loretta Flanagan-Cato)  
 Molecular and Systems Neuroendocrinology (graduate; with Peter Gray and Wylie Vale)  
 Behavioral Pharmacology Laboratory (graduate; with Eva Redei)  
 Brain Bases of Behavior (undergraduate; with Ed Pugh)  
 Abnormal Psychology I (undergraduate; with Martin Seligman)  
 Abnormal Psychology II (undergraduate; with Robert DeRubeis)  
 Introductory Psychology (undergraduate; with David Williams)

### Mentoring Activities:

Name	Status	Dates	Current Status
Éva Fekete <sup>1</sup>	Post-doc	2003-2005 2008-2011	Asst Professor, University of Pécs, Hungary and Senior Assistant Scientist, U. Wisconsin-Madison
Valentina Sabino <sup>2</sup>	Ph.D. (2006)/Post-doc	2003-2009	Asst Professor, Boston University
Shinichi Iwasaki	Post-doc	2005-2006	Asst Professor, Osaka City University Med School
Pietro Cottone <sup>3</sup>	Ph.D. (2007)/Post-doc	2005-2009	Asst Professor, Boston University
Yanina Grant	Visiting M.S. student	2005	M.S., Oklahoma State University
Luca Steardo	Visiting M.D. student	2007	Resident, University of Rome "La Sapienza", Italy
Yu Zhao	Post-doc	2006-2008	Scientist, Amylin Pharmaceuticals
Marian Logrip <sup>4</sup>	Post-doc	2008-	Research Associate, The Scripps Research Institute
Jennifer Frihauf <sup>5</sup>	Graduate student	2008-	Ph.D. Student, UCSD Neuroscience Graduate Group
Sarah Parylak <sup>6</sup>	Graduate student	2008-	Ph.D. Student, UCSD Neuroscience Graduate Group
Alessandra Dicitore	Visiting Scientist	2008	Research Fellow, Second University of Naples
<sup>1</sup> Hungarian Eotvos Fellowship			
<sup>2</sup> 2006 National Institute on Alcohol Abuse and Alcoholism K99/R00 Pathway to Independence Awardee			
<sup>3</sup> 2007 National Institute on Drug Abuse K99/R00 Pathway to Independence Awardee			
<sup>4</sup> 2010 National Institute on Alcohol Abuse and Alcoholism Postdoctoral NRSA Awardee			
<sup>5</sup> 2011 National Institute on Diabetes, Digestive and Kidney Disorders Predoctoral NRSA Awardee			
<sup>6</sup> 2010 National Institute on Drug Abuse Predoctoral NRSA Awardee			

Pregraduate Trainees (\* denotes honors thesis)

at the University of Pennsylvania (1993-1996):

NAME	YEARS	LEFT TO or CURRENT POSITION
Marni Borricelli	1994	

Allison Cherner (Bender) *	1995-96	BusinessLogic Corp.
Kristin Dolte (McNaughton)*	1995	MHS Johns Hopkins / Merck
Jason Kessler *	1994-95	MD, MPH Columbia Univ. School of Medicine
Heather Lieberman (Zinkin)*	1995-96	MD NYU / Asst. Prof. Mass Gen Hospital
Vaughn Mankey *	1995-96	MD Harvard Medical School, Psychiatry
Samir Shah	1994-96	ExlPharma, Executive Vice President
Partha Sinha	1994-96	MD, PhD Tufts/Mass Gen Hosp., Endocrinology
Fernando Suarez-Rivas	1993-94	co-Head N. America financials, JPMorgan Chase

at The Scripps Research Institute) (1997-present):

<b>NAME</b>	<b>YEARS</b>	<b>LEFT TO or CURRENT POSITION</b>
Diego Castaneda	1997	Dr.PH. UC-Berkeley, MPH SDSU
Stephen Schneid	1997	Health Sciences Educator, UCSD School of Med.
Lindsay Reinhardt *	1998-99	Clinical Trial Coordinator, UCSD School of Med.
Carmen Carrillo	1998-99	PhD Program Princeton, MPH Johns Hopkins
Victoria Bender	2000	Asst. to Dr. Ren Sun, UCLA Pharmacology
Minette Unson (Pineda)	2001	Registered Nurse (RN)
Andrea Cugini (Spencer)	2002	FoxFury Lighting Solutions
Maegan Mattock	2002-04	Project Coordinator, UCLA IRLE Institute
Cherie Virtitas (Falvey)	2005	MPH Yale School of Public Health, now UCSF
Lara Pockros	2006-07	PhD Psychology Program, Arizona State University
Belinda Leos	2007	Research Technician, Scripps Research Institute
Michael Douglas		
Justin Bokhoor	2007	MD student, U. Miami School of Medicine
Kimberly Lally	2007	Teacher, Orange County
Stephanie de la Cruz	2008-09	PharmD program, U. of the Incarnate Word
Elizabeth Wolf	2008-09	Ph.D. Psychology program, Pepperdine University
Meaghan Dischler	2009	Emergency Medical Technician (EMT)
John Sekab	2009-10	PharmD program, Mass College Pharm&Health Sci
Mariam Asrdyzyhan	2010	PharmD program, Loma Linda U. Pharmacy
Adrienne Remigio	2010	PharmD program
Edward Vaisberg	2010	Senior (2012), Dartmouth University
Melissa Kramer	2010	MD program, SUNY-Stony Brook
David Howard	2010	
Natalie Gill	2010	
Rheall Roquet *	2010-12	PhD program, UT-Austin, Behav. Neuroscience
Eunice Kim	2011	PharmD program
Jaimie Shubin	2011	Applicant, MSN Nursing graduate school
Daniel Le	2011	
Daniel Kim	2011	
Nate Balmert	2011	
Tiffany Andres	2011	Research Technician, White Labs Inc.
Ryan Chen	2011-12	
Jean Kim	2011-12	Applicant, PhD Neuroscience graduate school
Michelle Hong	2011-12	Intern, Wintherix

San Diego area high school students at The Scripps Research Institute

<b>NAME</b>	<b>YEARS</b>	<b>LEFT TO or CURRENT POSITION</b>
Minh (Alvin) Huynh	2004	Technician, Baxter Bioscience
Rosie Alevas	2004	
Sujin Park	2009	Undergraduate, Stanford University

Michelle Doyle	2009	Undergraduate, Tufts University
Paola Odriozola	2010	Undergraduate, UC—Berkeley (Full scholarship)
Gustavo Chavez	2010	Undergraduate, Stanford University
Jessica Becker	2011	Undergraduate, UCLA

### Honors and Awards:

1987-1991	Angier B. Duke Memorial Merit Scholar (full tuition), Duke University
1991	Economics Honors Program, Duke University
1991	Dean's List with Distinction, Duke University
1991	Cum Laude, Duke University
1991	Graduated with Distinction in Psychology, Duke University
1992-1996	National Science Foundation Predoctoral Fellow
1995-1996	Scottish Rite Dissertation Research Fellow
1996	Most Outstanding Graduate Student, Dean's Scholar, University of Pennsylvania
1998-2001	Minority Supplement, NIH P01DK267401, "Biology of neuroendocrine peptides."
2001-2003	Minority Supplement, NIH P01DK267401, "Biology of neuroendocrine peptides."
2004	Abstract selected for and published in the Society for Neuroscience conference media materials "Hot Topics" Press Book, Program No. 893.23
2005	Abstract selected for and published in the Society for Neuroscience conference media materials "Hot Topics" Press Book, Program No. 57.4
2005	Abstract selected for and published in the Society for Neuroscience conference media materials "Hot Topics" Press Book, Program No. 307.20
2005	"Most-Frequently Read Articles," <i>Am J Physiol.</i> 2005. 288: R1450-67
2005	Paper received Commentary -- <i>Am J Physiol.</i> 2005. 288: R1450-67 by Geary N. <i>Am J Physiol Regul Integr Comp Physiol.</i> 2005. 288:R1444-6.
2006	Paper received Commentary -- <i>Science.</i> 2006. 314: 825-8 by Saper C, <i>Science.</i> 2006. 314:773-4 and Verico CD, <i>Physiology</i> 22: 70-72, 2007.
2006	"Cover" and "Most-Frequently Read Articles," <i>Proceedings of the National Academy of Sciences.</i> 2006. 103: 13226-13231.
2006	Paper received Commentaries -- <i>Proceedings of the National Academy of Sciences.</i> 2006. 103: 13226-13231 by Zigman JM, Elmquist JK, <i>Proceedings of the National Academy of Sciences.</i> 2006. 103: 12961-12962 and Carlson MJ, Cummings DE. <i>Mol Interv.</i> 6: 249 - 252.
2007	Paper received Commentary -- <i>Proceedings of the National Academy of Sciences.</i> 2007. 104: 17198-17203 by Grunberg NE. <i>Proceedings of the National Academy of Sciences.</i> 2007. 104: 17901-17902.
2009	"Cover," <i>Proceedings of the National Academy of Sciences.</i> 2009. 106: 20016-20020.

### Advisory Activities:

#### Journal Reviewer

Addiction Biology  
American Journal of Geriatric Psychiatry  
American Journal of Physiology – Regulatory, Integrative and Comparative Physiology  
American Journal of Psychiatry  
Annals of Behavioral Medicine  
Appetite  
Archives of General Psychiatry  
Atherosclerosis

Behavioural Brain Research  
Behavioral Neuroscience  
Behavioural Pharmacology  
Biological Psychiatry  
Brain Research  
British Journal of Pharmacology  
Current Drug Targets  
Developmental Psychobiology  
Diabetes  
Drug Discovery Today  
Endocrine  
Endocrinology  
European Journal of Clinical Investigation  
European Journal of Neuroscience  
Expert Opinion on Therapeutic Targets  
FASEB Journal  
Future Drugs: Expert Reviews  
Genes, Brain, and Behavior  
Gut  
Hormones and Behavior  
Hypertension  
ILAR Journal  
International Journal of Neuropsychopharmacology  
Journal of Neuroendocrinology  
Journal of Neuroscience  
Journal of Pharmacology  
Journal of Psychopharmacology  
Journal of Psychosomatic Research  
Molecular Psychiatry  
Neurobiology of Disease  
Neuropharmacology  
Neuropsychopharmacology  
Neuroscience  
Neuroscience and Biobehavioral Reviews  
Obesity  
Peptides  
Pharmacological Research  
Pharmacology, Biochemistry and Behavior  
Physiology & Behavior  
Proceedings of the National Academy of Sciences  
Psychoneuroendocrinology  
Psychopharmacology  
Psychosomatic Medicine  
Regulatory Peptides  
Stress  
Trends in Endocrinology and Metabolism  
Wiley Interdisciplinary Reviews: Systems Biology and Medicine

Grants Reviewer|

2003-2004 Department of Veteran Affairs: Merit Review Grants  
2007-2009 Israel Science Foundation

2007 Burroughs Wellcome Fund  
 2008 American Diabetes Association  
 2009 NIH Challenge Grant (RC1) Panel 15 Reviewer -- ZRG1 EMNR-C (58) R  
 2009 United States - Israel Binational Agricultural Research & Development Fund  
 2009 NIH Integrative Physiology of Obesity and Diabetes [IPOD] Study Section  
 2011 Border Biomedical Research Program  
 2011 Romanian National Council for Scientific Research  
 2012 NIH/NIDDK DDK-C (Digestive Diseases and Nutrition C), Ad hoc  
 2012 NIH/CSR MESH (Mechanisms of Emotion, Stress, and Health), Ad hoc  
 2012 NIH/NIAAA AA-4 (Neuroscience Review Subcommittee), Standing Reviewer

**Professional Affiliations:**

1996- Member, Society for Neuroscience  
 2003- Member, National Institute of Diabetes, Digestive and Kidney Disorders Network  
           of Minority Research Investigators  
 2004- Member, American Physiological Society  
 2004- Member, American Society of Pharmacology and Experimental Therapeutics  
 2005- Member, Society for the Study of Ingestive Behavior

**Research Grants Awarded:****Current** (ordered by date of initiation)

Source of Funding	Grant #	Project Title	Role	Dates	Total Award Portion (\$)
NIDDK (NIH)	R01 DK070118	Urocortins, Brain CRF <sub>2</sub> receptors and energy balance	PI	08/15/06- 03/31/12	Yr 1 351,632 Yr 2 326,974 Yr 3 328,472
NIAAA (NIH)	P60 AA006420	CNS effects of alcohol: Cellular neurobiology	PI of component	1/08- 12/12	~135,000/yr
TRDRP	17RT-0095	Nicotine self-administration in an animal model	Co-PI (w/G.Koob)	2008- 2012	61,281
NIDDK(NIH)	R01 DK079896	Galanin Control of Food Intake: Molecular, Neuroanatomical and Behavioral Bases	PI	09/15/08- 03/30/12	Yr1 322,150 Yr2 322,150
NIDDK (NIH)	P01 DK26741	Behavioral significance of neuroendocrine peptides	Co-PI of component (w/G.F. Koob)	6/1/11- 5/31/15	~ 60,000/year
NCRR (NIH)	S10 RR027483	QNMR system for whole body composition analysis of live mice	Co-PI (w/N Gekakis)	2011- 2012	100,106

**Completed**

Source of Funding	Grant #	Project Title	Role	Dates	Total Award Portion (\$)
General Clinical Research Center U. Pennsylvania	N/A	The effects of examination stress on cell-mediated immunity: psychological and biological correlates	Co-PI	1993- 1994	12,000
Res. Foundation U. Pennsylvania	N/A	The effects of examination stress on cell-mediated immunity: psychological and biological correlates	Co-PI	1993- 1994	16,000
NIDDK (NIH)	P01 DK267401- S1	Biology of neuroendocrine peptides	Minority Supplementee	1998- 2001	326,200

NIDDK (NIH)	P01 DK267401-S2	Biology of neuroendocrine peptides	Minority Supplementee	2001-2003	344,760
NIDDK (NIH)	R03 DK064871	Role of the CRF <sub>2</sub> receptor in ingestive behavior	PI	9/1/03-7/31/06	563,100
NIDA (NIH)	R01 DA017097	Dysregulation of brain stress systems and susceptibility to relapse	Co-PI (w/F. Weiss)	8/1/04-6/30/09	97,200
NIAAA (NIH)	P60 AA006420	CNS effects of alcohol: Cellular neurobiology	Co-PI of component (w/F. Weiss)	12/31/04-12/31/07	177,217
NIDA (NIH)	R01 DA04043	Central mechanisms of opiate reinforcement and dependence	Co-PI (w/G.F. Koob)	7/1/04-6/30/10	69,600
NIDDK (NIH)	R21 DK072169	Immunopharmacotherapy as a strategy to modify feeding	Co-PI (w/K. Janda)	4/1/06-3/31/08	90,024
NIDDK (NIH)	R21 DK077616	Programmed adiposity: genetic, in utero and postnatal determinants	PI	9/15/06-9/14/08	503,138
McDonald's	N/A	Obesity and feeding behavior (unrestricted grant)	Co-PI (w/K. Janda)	2007-2008	25,000
McDonald's	N/A	Obesity and feeding behavior (unrestricted grant)	Co-PI (w/K. Janda)	2008-2009	25,000
GlaxoSmithKline	SFP-1780	Active immunization against ghrelin	PI (w/K. Janda)	2008	234,000
USAMRAA	PT074076	Enduring Effects of Traumatic Stress on Brain Neuropeptide Y (NPY) and Corticotropin-Releasing Factor (CRF)	PI	2008-2009	279,600
NIDDK (NIH)	DK079896-S	Undergraduate Summer Research Experience Supplement to DK079896 (ARRA Stimulus Award)	PI	2009-2010	~20,000/yr
NIDDK (NIH)	DK070018-S	High School Summer Research Experience Supplement to DK070018 (ARRA Stimulus Award)	PI	2009-2010	~20,000/yr

### Invited Presentations and Seminars:

- 2001 American College of Neuropsychopharmacology Study Group, The CRF-R2 receptor as a drug target. Waikoloa Beach, HI [presenter and discussant].
- 2003 European College of Neuropsychopharmacology, 16th Congress, CRF<sub>1</sub> receptor antagonists for anxiety. Prague, Czech Republic. European Neuropsychopharmacology, 13 Suppl. 4, S130-S131 [presenter].
- 2005 American College of Neuropsychopharmacology, Not your mother's CRF: type 2 urocortins, selective CRF<sub>2</sub> receptor agonists, reduce excessive ethanol drinking and overeating. Waikoloa Beach, HI. Neuropsychopharmacology, 30 (Suppl. 1), S29 [presenter].
- 2006 The Scripps Research Institute Neuroscience Seminar Series, Towards understanding the molecular basis of binge eating and finickiness, La Jolla, CA [presenter].
- 2007 Wayne State University Department of Psychiatry and Behavioral Neuroscience Grand Rounds, The corticotropin-releasing factor/urocortin peptide family: pathophysiologic and therapeutic relevance of an ancient brain stress system", <http://www.med.wayne.edu/psychiatry/cme/presentation/April%202007/April18.html>, Detroit, MI [presenter].

- 2007 Rudd Center for Food Policy and Obesity, Yale University, Food addiction and obesity, New Haven, CT [symposium].
- 2007 Pfizer Study Group on Obesity and Cardiovascular Disease, Pfizer Inc., Groton, CT [symposium], October 1-2, 2007.
- 2007 NIDDK Intrauterine Environment and Obesity Workshop, National Institutes of Diabetes and Digestive and Kidney Disorders, Rockville, MD, November 27–28, 2007 [presenter and symposium].
- 2008 American Society for Nutrition/Experimental Biology 2008, Food addiction: Fact or fiction, San Diego, CA, April 8, 2008 [invited symposium participant].
- 2008 American College of Neuropsychopharmacology 47th Annual Meeting, Addiction-like recruitment of brain stress systems in rats intermittently eating palatable food, Scottsdale, AZ, December, 7-11, 2008 [presenter].
- 2009 Society of Biological Psychiatry 64th Annual Scientific Convention and Meeting. CRF1 system involvement in the "dark side" of compulsive eating, Vancouver, Canada, May 14-16, 2009 [presenter].
- 2009 Military Health Research Forum 2009, Neuroadaptations in stress-related peptidergic brain systems following social defeat stress, Kansas City, MO, August 14-16, 2009 [presenter].
- 2009 Reuben Fleet Science Center 2009, Compulsive eating and addiction-like neuroadaptations, San Diego, CA, October 5, 2009 [presenter]
- 2012 Behavior, Biology, and Chemistry: Translational Research in Addiction 2012, Progress in CRF1 antagonist development: A target at a crossroad, San Antonio, CA, March 3, 2012 [plenary speaker]
- 2012 National Hispanic Science Network on Drug Abuse 12th Annual Conference "Bridging the Gap in Behavioral Health Services for Latinos" 2012, Anxiety-like behavior and changes in CRF and NPY systems of rats during withdrawal from chronic intermittent ethanol exposure: Timing is everything, San Diego, CA, September 28, 2012 [speaker]

#### **Additional Presentations and Meeting Abstracts:**

1. **Zorrilla, E.P.**, Shah, S., Kessler, J., Lieberman, H., Redei, E., 1995. Sexually dimorphic effects of neonatal environmental disruptions on depressive behavior and pituitary-adrenal hormone functioning of the adult rat. Society for Neuroscience, 25th Annual Meeting, San Diego. Society for Neuroscience Abstracts, 21, abstr# 1686.
2. Rittenhouse, P.A., **Zorrilla, E.P.**, McGivern, R.F., Redei, E., 1996. Restraint stress produces region specific changes in rat brain prepro-TRH 178-199, a proposed novel corticotropin release inhibiting factor. Society for Neuroscience, 26th Annual Meeting, Washington DC. Society for Neuroscience Abstracts, 22, abstr# 1341.
3. **Zorrilla, E.P.**, Redei, E., 1996. Neonatal handling increases behavioral despair and



acoustic startle responses. Society for Neuroscience, 26th Annual Meeting, Washington DC. Society for Neuroscience Abstracts, 22, abstr# 463.

4. Spina, M., **Zorrilla, E.P.**, Basso, A.M., Balducci, C., Merlo-Pich, E., Rivier, J., Vale, W. and Koob, G.F., 1997. Comparison of behavioral effects of central urocortin or CRF infusion. Society for Neuroscience, 27th Annual Meeting, New Orleans. Society for Neuroscience Abstracts, 23, abstr# 521.

5. **Zorrilla, E.P.**, Schulteis, G., Ormsby, A.L., Klaasen, A., Koob, G.F. and De Souza, E.B., 1997. Urocortin's effects on acquisition of spatial navigation in a Morris maze vary with task difficulty. Society for Neuroscience, 27th Annual Meeting, New Orleans. Society for Neuroscience Abstracts, 23, abstr# 1764.

6. Weiss, F., Richter, R.M., Basso, A.M., **Zorrilla, E.P.**, Balducci, C., Gessa, G.L. and Koob, G.F., 1997. Different behavioral and pharmacological profiles in Sardinian alcohol preferring and non-preferring rats. Society for Neuroscience, 27th Annual Meeting, New Orleans. Society for Neuroscience Abstracts, 23, abstr# 2390.

7. **Zorrilla, E.P.**, Schulteis, G., Ling, N., Koob, G.F. and De Souza, E.B., 1998. Performance-enhancing effects of corticotropin-releasing factor-binding protein ligand inhibitors. Society for Neuroscience, 28th Annual Meeting, Los Angeles. Society for Neuroscience Abstracts, 24, abstr# 590.

8. Valdez, G.R., **Zorrilla, E.P.**, Koob, G.F. and Weiss, F., 2000. Influence of protracted ethanol abstinence on corticotropin-releasing factor systems and the HPA axis in dependent rats. Society for Neuroscience, 30th Annual Meeting, New Orleans. Society of Neuroscience Abstracts, 26, abstr# 674.15.

9. Valdez, G.R., Inoue, K., Koob, G.F., Rivier, J., Vale, W.W. and **Zorrilla, E.P.**, 2001. Human urocortin II: effects of a novel, selective CRF-R2 receptor agonist on anxiety and motor activation in rats. Society for Neuroscience, 31st Annual Meeting, San Diego. Society for Neuroscience Abstracts, 27, abstr# 850.

10. **Zorrilla, E.P.**, Inoue, K., Reinhardt, L.E., Valdez, G.R., Tabarin, A., Rivier, J., Vale, W.W. and Koob, G.F., 2001. Anorectic effects of human urocortin II, a selective type 2 CRF receptor agonist. Society for Neuroscience, 31st Annual Meeting, San Diego. Society for Neuroscience Abstracts, 27, abstr# 850.

11. Inoue, K., Valdez, G.R., Reinhardt, L.E., Tabarin, A., Rivier, J., Vale, W.W., Koob, G.F. and **Zorrilla, E.P.**, 2001. Anorectic effects of human urocortin II, a novel, selective Type 2 CRF receptor agonist, in the rat. Collegium Internationale Neuro-Psychopharmacologicum Regional Meeting, Hiroshima. International Clinical Psychopharmacology, 2002, 17(Suppl. 2).

12. Carrillo, C.A., **Zorrilla, E.P.**, Koob, G.F., 2001. The effects of naltrexone, an non-selective opiate receptor antagonist, on the consumption of sweetened food and solutions. AAAS Annual Meeting & Science Innovation Exposition, San Francisco, 167, abstr# A85.

13. Inoue, K., **Zorrilla, E.P.**, Tabarin, A., Valdez, G.R., Iwasaki, S., Kiriike, N. and Koob, G.F., 2002. Persistent reduction in anxiety-like behavior following restricted feeding in the rat. Society for Neuroscience, 32nd Annual Meeting, Orlando FL. Society for Neuroscience Abstracts, 28, abstr# 188.6.

14. Tabarin, A.C., Catargi, B., **Zorrilla, E.P.**, Inoue, K., Monsingean, M., Roberts, A.J., Bale, T.L., Lee, K.F., Vale, W.W. and Koob, G.F., 2002. Role of corticotrophin-releasing-hormone receptor Type 1 in the modulation of feeding behavior. Society for Neuroscience, 32nd Annual Meeting, Orlando FL. Society for Neuroscience Abstract, 28, abstr# 320.11.
15. Valdez, G.R., **Zorrilla, E.P.**, Rivier, J., Vale, W.W. and Koob, G.F., 2002. Behavioral effects of urocortin III, a novel, highly selective CRF-2 receptor agonist, in animal models of anxiety. Society for Neuroscience, 32nd Annual Meeting, Orlando FL. Society for Neuroscience Abstracts, 28, abstr# 683.8.
16. **Zorrilla, E.P.**, Tabarin, A.C., Inoue, K., Valdez, G.R., Catargi, B., Roberts, A.J., Reinhardt, L., Lee, K.F. and Vale, W.W., 2002. Stress-induced anorexia does not require Type 1 corticotropin-releasing factor receptor activation. Society for Neuroscience, 32nd Annual Meeting, Orlando FL. Society for Neuroscience Abstracts, 28, abstr# 772.5.
17. Tabarin, A., Catargi, B., **Zorrilla, E.P.**, Inoue, K., Monsaingeon, M., Roberts, A.J., Bale, T.L., Lee, K.-F., Vale, W.W., Koob, G.F., 2002. Modulation of feeding behavior by corticotropin-releasing factor receptor 1. The Endocrine Society, 84th Annual Meeting, San Francisco CA. Program & Abstracts of The Endocrine Society's 84th Annual Meeting, San Francisco, CA, June 19-22, 2002, abstr# OR43-5.
18. Fekete, E.M., **Zorrilla, E.P.**, Mason, B.J., Wirsching, P., Janda, K.D. and Koob, G.F., 2003. Anxiolytic-like effects of type 1 corticotropin-releasing factor receptor antagonists in the rat defensive burying test. Society for Neuroscience, 33rd Annual Meeting, New Orleans. Society for Neuroscience Abstracts, 29, abstr# 538.13.
19. **Zorrilla, E.P.**, Valdez, G.R., Inoue, K., Fekete, E.M., Rivier, J., Vale, W.W. and Koob, G.F., 2003. Central administration of urocortin 3, a type 2 corticotropin-releasing factor receptor agonist, suppresses food intake without malaise in the rat. Society for Neuroscience, 33rd Annual Meeting, New Orleans. Society for Neuroscience Abstracts, 29, abstr# 928.7.
20. Richardson, H.N., **Zorrilla, E.P.**, Rivier, C., 2003. Sexually dichotomous stress responsivity following prenatal stress exposure. Society for Neuroscience, 33rd Annual Meeting, New Orleans. Society for Neuroscience Abstracts, 29, abstr# 506.18.
21. Tabarin, A.C., Chaves Y.D., Catargi, B.N., Roberts, A.J., Parker, G.C., **Zorrilla, E.P.**, Inoue, K., Coscina, D.V., Kieffer, B.L., Koob, G.F., 2004. Resistance to diet-induced obesity in  $\mu$ -opioid receptor deficient mice. The Endocrine Society, 86th Annual Meeting, New Orleans. Program & Abstracts of The Endocrine Society's 86th Annual Meeting, New Orleans, LA, June 16-19, 2004, abstr# OR2-6.
22. Chen, S.A., **Zorrilla, E.P.**, Kitamura, O., Koob, G.F., 2004. Intra-amygdala infusion of a CRF antagonist reduces heroin self-administration in rats with unlimited drug access. FASEB Meeting, FASEB Journal, 30, abstr# 635.6.
23. Tabarin, A.C., Chaves Y.D., Catargi, B., Roberts, A.J., Parker, G.C., **Zorrilla, E.P.**, Inoue, K., Coscina, D.V., Kieffer, B.L., Koob, G.F., 2004. Resistance to diet-induced obesity in mu-opioid receptor deficient mice. Society for Neuroscience, 34th Annual Meeting, San Diego. Society for Neuroscience Abstracts, 30, abstr# 147.7.

24. Nie, Z., **Zorrilla, E.P.**, Roberts, A.J., Koob, G.F., Siggins, G.R., 2004. A CRF1 receptor antagonist blocks the ethanol enhancement of GABAergic transmission in the mouse central amygdala by a presynaptic mechanism. Society for Neuroscience, 34th Annual Meeting, San Diego. Society for Neuroscience Abstracts, 30, abstr# 234.1.
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2. **Zorrilla, E.P.**, Koob, G.F., 2000. Peptides, In (Ed.) Fink, G., Encyclopedia of Stress, Vol. 3, San Diego: Academic Press, 138-141.
3. **Zorrilla, E.P.**, Koob, G.F., 2000. Urocortin, In (Ed.) Fink, G., Encyclopedia of Stress, Vol. 3, San Diego: Academic Press, 637-641.
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6. Fekete, E.M., **Zorrilla, E.P.**, 2007. Urocortins, In (Ed.) Fink, G., Encyclopedia of Stress, Vol. 3, Oxford: Academic Press, 804-811
7. **Zorrilla, E.P.**, Zhao, Y., Koob, G.F., 2007. CRF receptor antagonists, In (Ed.) Fink, G., Encyclopedia of Stress, Vol. 4, Oxford: Academic Press, 206-214.
8. Frihauf, J.B., Fekete, E., **Zorrilla, E.P.**, CNS Control of food intake. In Encyclopedia of Behavioral Neuroscience. Eds. Koob GF, Thompson RF, LeMoal M, Elsevier, London, 2010.
9. Parylak, S.L., Cottone, P., **Zorrilla, E.P.**, Eating Disorders: Animal Models. In Encyclopedia of Psychopharmacology. Ed. Stolerman, I., Springer, Berlin, 2010.

#### **Patents:**

1. **Zorrilla, E.P.**, Meijler, M.M., Janda, K.D., Vaccines and methods for controlling adiposity, PCT/US2010/0021487 [originally filed August 1, 2007].
2. Koob, G.F., **Zorrilla, E.P.**, Mason, B., Wirsching, P., Janda, K.D., MPZP: A small molecule corticotropin-releasing factor type 1 receptor (CRF1) antagonist, PCT/US2010/0249138 [provisional patent filed September 14, 2007].

#### **Activities to Promote Professional Diversity:**

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|-----------|--|
| 1996-1997 | <u>UCSD Summer Research Program for Underrepresented Minorities</u> , Mentor - Diego Castaneda (now MPH; currently Ph.D. candidate at UC-Berkeley)   |
| 1998-2000 | <u>UCSD California Alliance for Minority Participation in Science, Engineering and Mathematics (CAMP) Program</u> , Mentor - Carmen Carrillo (now NSF Graduate Fellow, MPH student at Johns Hopkins) |
| 1998-2000 | <u>Society for Advancement of Chicanos and Native Americans in Science (SACNAS)</u> , Mentor - Carmen Carrillo, SACNAS minority fellowship recipient   |
| 2003-     | <u>National Institute of Diabetes, Digestive and Kidney Disorders Network of Minority Research Investigators</u> , Member  |
| 2004      | <u>UCSD Upward Bound Math-Science Program for High School Students</u> , Mentor – Yung “Alvin” Huynh   |
| 2004      | <u>UCSD Upward Bound Math-Science Program for High School Students</u> , Mentor – Rosie Alevas   |
| 2007      | <u>MySci @ Scripps</u> (Career recruitment activity for underrepresented high schoolers at The Scripps Research Institute), Speaker  |



- 2008 High School Student Summer Research Education Program at The Scripps Research Institute, Workshop Speaker
- 2009 High School Student Summer Research Education Program at The Scripps Research Institute, Mentor – Sujin Park
- 2009 High School Student Summer Research Education Program at The Scripps Research Institute, Mentor – Michelle Doyle
- 2010 High School Student Summer Research Education Program at The Scripps Research Institute, Mentor – Paola Odriozola New
- 2010 High School Student Summer Research Education Program at The Scripps Research Institute, Mentor – Gustavo Chavez New
- 2011 Scripps Undergraduate Research Fellowship, Mentor – Nate Balmert