

CURRICULUM VITAE

Personal Details

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Education:

B.A. equivalent 1991-1996: University of Pisa (Italy); Degree: Biological Sciences; 110/110 cum laude
Title of experimental thesis: "Mechanisms of modulation of the Na⁺/K⁺-ATPase pump in the T neurons of the leech *Hirudo medicinalis* by a sea-weed biotoxin."

PhD 1997-2001: University of Pisa (Italy) and The Scripps Research Institute (USA).

May 4 2001: Title of experimental PhD thesis: "The neuropeptide PACAP-38 and ethanol alter the synaptic transmission in rat CA1 hippocampal slices."

Laboratory experience:

1994-1996: Electrophysiology laboratory (research group of Prof. M. Brunelli), Department of Physiology and Biochemistry, University of Pisa, Pisa, Italy.

August-December 1996: Leonardo da Vinci UETP (University Enterprises Training Partnership) Fellowship Trainee, Neuronal Development and Biochemistry, The Babraham Institute of Cambridge, UK, (advisor: Prof. Simon Luckman).

1996-1997: Lab training (advisors: Profs. M. Brunelli and A. Felicioli).

February 1997-May 2001: PhD in "Basic Neuroscience," Department of Physiology and Biochemistry, University of Pisa, Italy (advisor: Prof. M. Brunelli).

February-December 1999: PhD Fellowship Training, Department of Neuropharmacology, The Scripps Research Institute, La Jolla, CA (advisors: Profs: G.R. Siggins and D.L. Gruol).

May 2001-2003: Postdoctoral Fellowship, Department of Neuropharmacology, The Scripps Research Institute, La Jolla, CA (advisor: Prof. G.R. Siggins).

November 2003-2005: Staff Scientist, Department of Neuropharmacology, The Scripps Research Institute, La Jolla, CA.

December 2005-October 2006: Assistant Professor, Molecular and Integrative Neurosciences Department (MIND), The Scripps Research Institute, La Jolla, CA.

October 2006-September 2008: Assistant Professor, Committee on the Neurobiology of Addictive Disorders (CNAD), The Scripps Research Institute, La Jolla, CA.

2006-2012: Adjunct Assistant Professor, Molecular and Integrative Neurosciences Department, The Scripps Research Institute, La Jolla, CA.

October 2008-June 2011: Associate Professor, Committee on the Neurobiology of Addictive Disorders (CNAD), The Scripps Research Institute, La Jolla, CA.

June 2011-March 2015: Associate Professor with Tenure, Committee on the Neurobiology of Addictive Disorders (CNAD), The Scripps Research Institute, La Jolla, CA.

January 2014-present: Scientific Director of the Integrative Neuroscience Initiative on Alcoholism (INIA) Neuroimmune (previously INIA-West) consortium.

April 2015-January 2017: Professor, Committee on the Neurobiology of Addictive Disorders (CNAD), The Scripps Research Institute, La Jolla, CA.

August 2016-: Adjunct Professor in the Department of Psychiatry at the University California San Diego, La Jolla, CA.

August 2016-: Scientific Director of the TSRI NIAAA-Alcohol Research Center.

December 2016-present: Academy of Neuroscience for Architecture (ANFA), Member of the Board of Directors

February 2017-: Professor, Neuroscience Department, The Scripps Research Institute, La Jolla, CA.

Honors and Awards:

University Enterprises Training Partnership (UETP) Fellowship, Neuronal Development and Biochemistry, The Babraham Institute of Cambridge, UK (1996)

Young Investigator Award in Neuroscience and Selection as Symposium Speaker, Pisa, Italy (2000)

Faculty Member, The Harold L. Dorris Neurological Research Institute (2005-2010)

Researcher, The Pearson Center for Alcoholism and Addiction Research (2005-present)

Young Investigator Award, Research Society on Alcoholism (2005)

Young Investigator Award and Selection as Symposium Speaker, European Society for Biomedical Research on Alcoholism (2007)

Presidential Early Career Award for Scientists and Engineers (PECASE), given by the National Science and Technology Council. The PECASE award is the highest honor bestowed by the U.S. government on outstanding scientists and engineers beginning their independent careers. The PECASE award is intended to recognize scientists and engineers who show exceptional potential for leadership and service at the frontiers of scientific knowledge. The awards are conferred annually at the White House by the President following recommendations from participating agencies. In 2009, 12 persons were selected for the PECASE award from the NIH. This award also provided a 5-year extension of my R01 grant (2009)

Member, Fondazione of the Cassa di Risparmio di Volterra Bank, Italy (2009-present)

Congress Travel Award, International Society for Biomedical Research on Alcoholism (2006; 2010; 2012; 2016)

Knight of the "Order of Merit of the Republic of Italy" (2011)

Honorable Mention for Ziskind-Somerfeld Award, Society of Biological Psychiatry (2012)

6th Edition of the International Prize "Genoa: a woman standing out from the crowd" (2013)

Organizer, First (May 6-8, 2008), Second (May 3-6, 2011), Third (May 6-9, 2014) and Forth (May 9-12, 2017) International Meeting "Alcoholism and Stress: A Framework for Future Treatment Strategies", Volterra, Pisa, Italy

NIH Merit Award (2016)

The Jacob P. Waletzky Award from the Society for Neuroscience (2016)

Other Experience and Professional Memberships:

2001- Research Society on Alcoholism

2003- Society for Neuroscience

2005- Association of Neuroscience Departments and Programs

2010- International Society for Biomedical Research on Alcoholism

2012- Society of Biological Psychiatry

05/07/2010: NIH Big Think Symposium hosted by the Director of NIH Francis Collins

06/10/2013: Cell Specific Function Analysis Workshop hosted by NIAAA

- 08/11/2013: Brain Pathways to Recovery from Alcohol Dependence. Society for Neuroscience, San Diego, Satellite organized by NIAAA.
- 09/02/2014: Neuroimmune Mechanisms Contributing to Brain Function and Alcohol Related Disorders. Workshop hosted by NIAAA
- 11/14/2014: PTSD, the Amygdala and Alcohol Use Disorders. Society for Neuroscience, Washington DC, Satellite organized by NIAAA.
- 11/11/2016: Waletzky Award Lecture, Society for Neuroscience, San Diego, Satellite organized by NIDA/NIAAA.

Professional Service:

Advisory Activities

Journals

Editorial Boards

Neuropharmacology

Frontiers in Psychiatry - Psychopharmacology

Frontiers in Neuropharmacology

Frontiers in Addictive Disorders & Behavioral Dyscontrol

Alcohol

Italian Journal of Addiction

Guest Editor for *Frontiers*: Research Topic on “Neurophysiological mechanisms of addictive disorders”

Guest Editor for *Alcohol*

Guest Editor for *Addiction Biology*

Alcohol and Alcoholism

Alcohol Research: Current Reviews

Ad Hoc Reviewer

Addiction Biology; Alcohol; Alcohol and Alcoholism; Alcoholism: Clinical and Experimental Research; Behavioral Brain Research; Biological Psychiatry; Brain Research; Frontiers in Neuropharmacology; Frontiers in Addictive Disorders & Behavioral Dyscontrol; Frontiers in Integrative Neuroscience; Mediators of Inflammation; Neuropharmacology; Neuropsychopharmacology; NeuroReport; Journal of Neurochemistry; Journal of Neuroscience; Journal of Pharmacology and Experimental Therapeutics; Pharmacology Biochemistry and Behavior; Life Sciences; Proceedings of National Academy of Sciences USA; Synapse; Trends in Pharmacological Sciences; European Journal Neuroscience; Brain Structure and Function; Translational Psychiatry.

Research Grant Review

Ad Hoc Reviewer

07/24/2007: Special Emphasis Panel/Scientific Review Group 2007/08 ZAA1 CC (15)

07/20/2009: Special Emphasis Panel/Scientific Review Group Challenge Grants ZRG1 IFCN-A 58

02/16/2010: NIH Special Emphasis IAM/Scientific Review Grants ZRG1 FCN-L

02/27/2014: NIH Special Emphasis IAM/Scientific Merit Review Grants Rehabilitation Research and Development (RR&D)

07/01/2014-06/30/2018: NIH/Center for Scientific review Panel Membership. Neurotoxicology and Alcohol Study Section (NAL)

10/15/2015: Scientific Reviewer for ERAB: the European Foundation for Alcohol Research University

April 2016: The French National Research Agency (ANR) award research grants

April 2016: The Scripps Translational Science Institute (STSI) Pilot Program

7/15/2016: Scientific Reviewer for ERAB: the European Foundation for Alcohol Research University

4/15/17: Scientific Review for the German Research Foundation (DFG)

1/30/2018: Scientific review panel for the NIH Director’s Pioneer Awards

Doctoral Committee

- 2014 Melissa Galinato, Neurosciences Graduate Program; University of California, San Diego
Thesis Advisor: Chitra Mandyam, Ph.D
- 2016 Sarah A. Wolfe, Neurosciences Graduate Program; The University of Texas at Austin, Austin
Thesis Advisors: Adron R. Harris and Kimberly Raab-Graham
- 2017 Lauren Smith, Doctoral Program in Chemical and Biological Sciences, TSRI, La Jolla
Thesis Advisor: Kim Janda, Ph.D

Service to Research Societies

- Fundraising Committee, Research Society on Alcoholism (2007-2015)
Priorities Committee, Research Society on Alcoholism Research (2008-present)
Scientific Committee, Alcoholism and Stress: A Framework for Future Treatment Strategies (2007-present)
Member of the Membership Committee, International Society for Biomedical Research on Alcoholism (2010-2014)
Member of Program Committee, Research Society on Alcoholism Research/International Society for Biomedical Research on Alcoholism (2014)
Member of the Education Committee, International Society for Biomedical Research on Alcoholism (2014-present)
Liaison Committee, International Society for Biomedical Research on Alcoholism (2014-present)
Co-Chair of the Program Committee, Research Society on Alcoholism Research (2015)
Academy of Neuroscience for Architecture (ANFA), Board of Directors, Member (2016-present)

Service to The Scripps Research Institute

- The Scripps Research Education Programs (2006-present)
The Scripps Education Outreach Programs (2006-present)
Member TSRI Neuroscience Seminar Series organizing committee (2010-2014)
Member of the TSRI Faculty Philanthropy Committee (2015-present)
Member of the Faculty of the Bicoastal Recruitment Committee (2016-present)

Teaching Experience

October 2000- April 2001: University of Pisa – Biology Course: Lecturer in Physiology – Learning and Memory Processes: Synaptic Plasticity.

Waggoner Center for Alcohol and Addiction Research, University of Texas at Austin, Austin, TX, April 25-26th, 2013. “The drunken amygdala synapse: a role for neuropeptides.” Undergraduate Class of Neurobiology of Addiction (Prof. Harris A.R.).

The Scripps Research Institute, Course NEURO 550: “Neurobiology of Alcohol and Drug Addiction”. La Jolla, CA, October 3rd, 2016, PhD program: The Addiction Course. “Synaptic Mechanisms of Addiction.”

Postdoctoral Fellows Mentored:

Name	Grad School	Field of Study	Dates in Lab	Current Position
Juan Suarez, Ph.D.	University of Malaga	Neuropharmacology	6/5/2017 – 8/30/2017	Assistant Professor in lab of M. Roberto,

				Fulbright Scholar
Sarah A. Wolfe, Ph.D.	University of Texas at Austin	Neuroscience	6/1/2017 – Present	Postdoc in lab of M. Roberto
Michael Q. Steinman, Ph.D.	University of California, Davis	Molecular, Cellular and Integrative Physiology	9/1/2016-Present	Postdoc in lab of M. Roberto
Luis Natividad Ph.D.	University of Texas at El Paso	Neuropharmacology	9/1/2016-8/11/2017 8/11-K99 Mentor phase	Postdoc in lab of M. Roberto
Florence Varodayan, Ph.D.	Columbia University, NYC	Neurobiology and Behavior	12/2012 –8/2017 8/17-K99 Mentor phase	Postdoc in lab of M. Roberto
Reesha Patel, Ph.D.	Indiana University	Neuroscience	7/26/2016-Present	Postdoc in lab of M. Roberto
Sophia Khom, Ph.D.	University of Vienna	Neuropharmacology	9/1/2015-Present	Postdoc in lab of M. Roberto, Erwin-Schrodinger-Fellowship
Dean Kirson, Ph.D.	The University of Texas at Austin	Neuroscience	6/2014 – Present	Postdoc in lab of M. Roberto, NIAAA-F32 Fellowship.
David Hedges, Ph.D.	Brigham Young University	Biochemistry	8/2016-8/2017	University of Utah
Marian Logrip, Ph.D.	Ernest Gallo Clinic & Research Center (SF)	Neurobiology and Behavior	09/2013 – 07/2015 K99- Mentor Phase	Assistant Professor IUPUI
Matthew Buczynski, Ph.D.	University of California, San Diego	Neurobiology and Behavior	7/2014-8/2016 K99 Mentor Phase	Assistant Professor Virginia Tech
Marsida Kallupi, Ph.D.	University of Camerino, Italy	Neuroscience	05/2010 – 02-2012	Postdoc in lab of O. George
Melissa Herman, Ph.D.	Georgetown Univ., Washington, D.C.	Interdisciplinary program in Neuroscience	02/2010 – 08/2015 09/2015-7/29/2016 K99- co-Mentor	Assistant Professor UNC
Nicholas Gilpin, Ph.D.	Purdue University, Indianapolis, IN	Psychobiology	09/2007 – 2010 (09/05-09/07Koob lab)	Associate Professor LSU Health Sciences Center
Maureen Cruz, Ph.D.	Georgetown Univ., Washington, D.C.	Interdisciplinary program in Neuroscience	02/2007 – 08/2012	Associate at “Booz Allen Hamilton”
Michal Bajo, Ph.D.	Univ. of Bratislava, Slovakia	Molecular Biology	(2002-2013 Siggins Lab) 2013-present	Senior Staff Scientist in lab of M. Roberto

PhD Doctoral Fellows Mentored:

Diego Correia, PhD student, Federal University of Parana, Brazil (Dec. 2011-August 2012)
Neeraj Soni, PhD, University of Copenhagen, Denmark (April –September 2012)

Predocctoral Fellows Mentored:

Landon Klein, Rotation Graduate Student UCSD’s neuroscience PhD Program (2013)
George Luu, Rotation Graduate Student UCSD’s neuroscience PhD Program (2010)
Holly Jarrell, Rotation Graduate Student UCSD’s neuroscience PhD Program (2008)
Jeremy Biane, Rotation Graduate Student UCSD’s neuroscience PhD Program (2007)

Trainees Mentored:

Anshita Singhal, Rotation Academic Internship Program at UCSD (2018)
Noah Hoang, Rotation Academic Internship Program at UCSD (2018)
Sourish Mukhopadhyay, Rotation TSRI Graduate Program (2017)
Ariana Deluchi, Summer TSRI Outreach Program High School Student (2014)
Wednesday Bushong, Summer TSRI Outreach Program High School Student (2011)
Shneqwa McCauley, Summer TSRI Outreach Program High School Student (2009)
Johanna Mejia, Summer TSRI Outreach Program High School Student (2008)
Nailah Spruill, Summer TSRI Outreach Program High School Student (2007)
Addie Abrams, Summer TSRI Outreach Program High School Student (2006)

PUBLICATIONS

Research Articles

1. Brunelli M., Garcia-Gil M., Mozzachiodi R., **Roberto M.**, Scuri R., Traina G. and Zaccardi ML. (2000) Neurotoxic effects of caulerpenyne. *Progress Neuro-Psychopharmacology and Biological Psychiatry* 24: 939-954.
2. **Roberto M.** and Brunelli M. (2000) Pacap-38 enhances excitatory synaptic transmission in rat hippocampal CA1 region. *Learning and Memory* 7: 303-311.
3. Sacchetti B., Ambrogi Lorenzini C., Baldi E., Bucherelli C., **Roberto M.**, Tassoni G., Brunelli M. (2001) Long-lasting hippocampal potentiation and contextual memory consolidation. *European Journal Neuroscience* 13: 2291-2298.
4. Mozzachiodi R., Scuri R., **Roberto M.** and Brunelli M. (2001) Caulerpenyne, a toxin from the seaweed *Caulerpa taxifolia*, inhibits the Na⁺/K⁺ electrogenic pump in invertebrate neurons. *Neuroscience* 107: 519-526.
5. Sacchetti B., Ambrogi Lorenzini C., Baldi E., Bucherelli C., **Roberto M.**, Tassoni G., Brunelli M. (2001) Pituitary adenylate cyclase-activating polipeptide hormone (PACAP) at very low dosages enhances memory consolidation in the rat. *Neurobiology of Learning and Memory* 76(1):1-6.
6. **Roberto M.**, Scuri R. and Brunelli M. (2001) Differential effects of PACAP-38 on synaptic responses in rat hippocampal CA1 region. *Learning and Memory* 8(5):265-71.
7. Sacchetti B., Ambrogi Lorenzini C., Baldi E., Bucherelli C., **Roberto M.**, Tassoni G., Brunelli M. (2002) STP and LTP induction in the hippocampus of the rat and contextual memory consolidation. *European Journal Neuroscience* 15: 143-150.
8. **Roberto M.**, Nelson T.E., Ur C.L. and Gruol D.L. (2002) Ethanol exposure produces transient depression of CA1 Long-Term Potentiation in the rat hippocampus. *Journal of Neurophysiology* 87:2385-2397.
9. **Roberto M.**, Madamba S., Moore S.D., Tallent M.K. and Siggins G.R. (2003) Ethanol increases GABAergic transmission at both pre- and postsynaptic sites in rat central amygdala neurons. *Proceedings of National Academy of Sciences USA* 100:4, 2053-2058.
10. **Roberto M.**, Nelson T.E., Ur C.L., Brunelli M., Sanna P.P. and Gruol D.L. (2003) The transient depression of CA1 LTP induced by chronic intermittent ethanol exposure is associated with an inhibition of MAPKs. *European Journal Neuroscience* 17, 1646-1654.

11. Siggins G.R., Martin G., **Roberto M.**, Nie Z., Madamba S. and de Lecea L. (2003) Glutamatergic transmission in opiate and alcohol dependence. *Annals of the New York Academy of Science* 1003: 196-211.
12. **Roberto M.**, Schweitzer P., Madamba S., Stouffer D.G., Parsons L.H. and Siggins G.R. (2004) Acute and chronic ethanol alter glutamatergic synaptic transmission in rat central amygdala: an in vitro and in vivo analysis. *The Journal of Neuroscience* 24 (7): 1594-603.
13. Schweitzer P., **Roberto M.**, Madamba S.G., and Siggins G.R. (2004) Gamma-Hydroxybutyrate increases a potassium conductance and decreases the H-current in hippocampal neurons via GABA_B receptors. *Journal of Pharmacology and Experimental Therapeutics* 311(1): 172-9.
14. **Roberto M.**, Madamba S.G., Stouffer D.G., Parsons L.H. and Siggins G.R. (2004) Increased GABA release in the central amygdala of ethanol-dependent rats. *The Journal of Neuroscience* 24(45):10159-66.
15. Siggins G.R., **Roberto M.** and Nie Z. (2005) The tropy terminal: presynaptic effects of ethanol. *Pharmacology and Therapeutics* 107(1):80-98.
16. O'Dell L.E., Purdy R.H., Covey D.F., Richardson H.N., **Roberto M.** and Koob G.F. (2005) Epipregnanolone and a novel synthetic neuroactive steroid reduce alcohol self-administration in rats. *Pharmacology, Biochemistry and Behavior* 81(3):543-50.
17. Slanina K., **Roberto M.** and Schweitzer P. (2005) Endocannabinoids restrict hippocampal long-term potentiation via CB1. *Neuropharmacology* 49(5):660-8.
18. Bajo M., Crawford E., **Roberto M.**, Madamba S.G. and Siggins G.R. (2006) Chronic morphine treatment alters expression of N-methyl-D-aspartate receptor subunits in the nucleus accumbens and central amygdala. *Journal of Neuroscience Research* 83(4): 532-7.
19. **Roberto M.**, Bajo M., Madamba S., Crawford E. and Siggins G.R. (2006) Chronic ethanol exposure and protracted abstinence alter NMDA receptors in central amygdala. *Neuropsychopharmacology* 31, 988-996.
20. **Roberto M.** and Siggins G.R. (2006) Nociceptin/orphanin FQ presynaptically decreases GABAergic transmission and blocks the ethanol-induced increase of GABA release in central amygdala. *Proceedings of National Academy of Sciences USA* 103: 9715-9721.
21. Cruz M.T., Bajo M., Schweitzer P. and **Roberto M.** (2008) Shared mechanisms of alcohol and other drugs. *Alcohol Research and Health* Vol. 31, No. 2.
22. **Roberto M.**, Gilpin N., O'Dell L.E., Cruz M.T., Morse A.C., Siggins G.R. and Koob G.F. (2008) Cellular and behavioral interactions of gabapentin with alcohol dependence. *The Journal of Neuroscience* 28 (22): 5762-5771.

A. Press release by *Journal of Neuroscience* published in:

I. *Nature News*: online 28 May 2008; doi:10.1038/news.2008.859

II. *Science Daily*: online May 28, 2008; retrieved from

<http://www.sciencedaily.com/releases/2008/05/080528121256.htm>

B. Gilpin N.W., Koob G.F., **Roberto M.** (2008) Response to "Anxious to drink: gabapentin normalizes GABAergic transmission in the central amygdala and reduces symptoms of ethanol dependence." *Journal of Neuroscience*.

23. Bajo M., Cruz M.T., Siggins G.R., Messing R. O. and **Roberto M.** (2008) Protein kinase C epsilon mediation of CRF- and ethanol-induced GABA release in central amygdala. *Proceedings of National Academy of Sciences USA* 105(24):8410-5.
24. Bajo M., **Roberto M.** and Schweitzer P (2008) Differential alteration of hippocampal excitatory synaptic transmission by cannabinoid ligands. *Journal Neuroscience Research* 15;87(3):766-75.
25. Kang-Park M., Kieffer B.L., Roberts A.J., **Roberto M.**, Madamba S.G., Siggins G.R. and Moore S.D. (2009) Mu opioid receptors selectively regulate basal inhibitory transmission in the central amygdala: Lack of ethanol interactions. *Journal Pharmacology Experimental Therapeutics* 328(1):284-93.
26. Kenny P.J., Chartoff E., **Roberto M.**, Carlezon W.A. Jr and Markou A. (2009) NMDA receptors regulate nicotine-enhanced brain reward function and intravenous nicotine self-administration: Role of the ventral tegmental area and central amygdala. *Neuropsychopharmacology* 34(2):266-81.
27. Nie Z., Zorrilla E.P., Madamba S.G., **Roberto M.** and Siggins G.R. (2009) Presynaptic CRF1 receptors mediate the ethanol enhancement of GABAergic transmission in the mouse central amygdala. *ScientificWorldJournal* 18;9:68-85.
28. Silberman Y., Bajo M., Chappella A.M, Christiana D.T., Cruz M.T, Diaze M.R., Kash T., Lacka A.K., Messing R.O., Siggins G.R., Winder D., **Roberto M.**, McCool B.A., Weiner J.L. (2009) Neurobiological mechanisms contributing to alcohol/stress/anxiety interactions. *Alcohol* 43(7):509-19.
29. Chen Y.C., Holme A., McDevitt-Murphy M.E., Murphy J.G., Ray L.A., Richardson H.L., Witkiewitz K., Cruz M.T. and **Roberto M.** (2009) Young Investigator Award Symposium. *Alcohol* 43(7):499-508.
30. Cottone P., Sabino V., **Roberto M.**, Bajo M, Pockros L., Steardo L.; Rice K.C., Grigoriadis D.E, Conti B., Koob G.F., Zorrilla E.P. (2009) CRF system recruitment mediates dark side of compulsive eating. *Proceedings of National Academy of Sciences USA* 24;106(47):20016-20.

Press release by PNAS published in:
Science: online November 9th, 2009; retrieved from
<http://sciencenow.sciencemag.org/cgi/content/full/2009/1109/2>
<http://www.kpbs.org/news/2009/nov/10/yo>
31. **Roberto M.**, Cruz M.T., Gilpin N.W., Sabino V., Schweitzer P., Bajo M., Cottone P., Madamba S.M, Stouffer D.G., Zorrilla E.P., Koob G.F., Siggins G.R, Parsons L.H. (2010) Corticotropin releasing factor-induced amygdala gamma-aminobutyric Acid release plays a key role in alcohol dependence. *Biological Psychiatry* 67(9):831-9. *Epub* 2010 Jan 8.

Press release by The Scripps Research Institute published in:
Science Daily: online January 26, 2010; retrieved from
<http://www.sciencedaily.com/releases/2010/01/100125173452.htm>
http://www.usatoday.com/news/health/2010-01-29-stress-alcoholism_N.htm?csp=usat.me
32. **Roberto M.**, Cruz M.T, Bajo M., Siggins G.R., Parsons L.H. and Schweitzer P. (2010) The CB1 system tonically regulates inhibitory transmission and depresses the effect of ethanol in central amygdala. *Neuropsychopharmacology* 35(9):1962-72.
33. Bajo M., **Roberto M.**, Madamba S. and Siggins G.R. (2011) Neuroadaptation of GABAergic transmission in the central amygdala during chronic morphine treatment. *Addiction Biology*. *Addict Biol.* 2011 Oct;16(4):551-64. *Epub ahead of print on Dec 23 2010.*

34. Cruz M.T., Bajo M., Maragnoli M.E., Tabakoff B., Siggins G.R. and **Roberto M.** (2011) Type 7 Adenylyl Cyclase is involved in the ethanol and CRF sensitivity of GABAergic synapses in mouse central amygdala. *Frontiers of Pharmacology* 14;4:207.
35. Gilpin N.W., Misra K., Herman M., Cruz M.T., Koob G.F. and **Roberto M.** (2011) Neuropeptide Y opposes alcohol effects on GABA release in amygdala and blocks the transition to alcohol dependence. *Biological Psychiatry* Jun 1;69(11):1091-9. Epub ahead of print on Apr 3 2011.
36. Gilpin N.W. and **Roberto M.** (2012) Neuropeptide Modulation of Central Amygdala Neuroplasticity is a Key Mediator of Alcohol Dependence. *Neuroscience and Behavioral Reviews*. Feb;36(2):873-88. Epub ahead of print on Nov 2011.
37. Cruz M.T., Herman M., Kallupi M. and **Roberto M.** (2012) Nociceptin/orphanin FQ blockade of the CRF-induced GABA Release in the Central Amygdala is enhanced after chronic ethanol treatment. *Biological Psychiatry* 15;71(8):666-76. Epub ahead of print on Dec 6.

Press Release by *The Scripps Research Institute* published in:

Science Daily: online December 9, 2011; retrieved from

<http://www.sciencedaily.com/releases/2011/12/111209150152.htm>

<http://www.drugdiscoverynews.com/index.php?newsarticle=5725>

38. Cruz M.T., Herman M.A. Cote D. M., Ryabinin A. E. and **Roberto M.** (2012) Ghrelin Increases GABAergic Transmission and Interacts with Ethanol Actions in the Rat Central Nucleus of the Amygdala. *Neuropsychopharmacology* Sep 12. doi: 10.1038/npp.2012.190. [Epub ahead of print].

Press Release by *The Scripps Research Institute* published in:

Science Daily: online December 9, 2011; retrieved from

<http://www.sciencedaily.com/releases/2012/09/120914080636.htm>

<http://www.ibtimes.co.uk/articles/385054/20120917/scientists-discover-protein-causes-alcohol-addiction.htm>

39. Cui C., Noronha A., Morikawa H., Alvarez V.A., Stuber G., Szumlinski K.K., Kash T.L., **Roberto M.** and Wilcox M. (2012) New Insights on Neurobiological Mechanisms underlying Alcohol Addiction. *Neuropharmacology*, 13;67C:223-232.
40. Herman M.A, Kallupi K., Luu G., Oleata C.S, Koob G.F., Heilig M., Ciccocioppo R. and **Roberto M.** (2012) Enhanced GABAergic transmission in the central nucleus of the amygdala of genetically selected Marchigian Sardinian rats: alcohol and CRF effects. *Neuropharmacology*, 4;67C:337-348
41. Herman M.A., Contet C., Justice N.J., Vale W. and **Roberto M.** (2013) Subunit-specific tonic GABA currents and differential effects of ethanol within the central amygdala circuitry of CRF1 reporter mice. *The Journal of Neuroscience*, 20;33(8):3284-98.

Commentary by Diaz M.R and Morton R.A. (2013) Ethanol Untangles the Amygdala-Anxiety Circuit Through Tonic GABA Inhibition. Alcohol Clin Exp Res. 2013 Nov 13. doi: 10.1111/acer.12298. [Epub ahead of print]
42. Ayanwuyi L. O., Carvajal F., Lerma-Cabrera J., Domi E., Bjork K., Ubaldi M., Heilig M., **Roberto M.**, Ciccocioppo R., Cippitelli A. (2013) Role of a genetic polymorphism in the corticotropin-releasing factor receptor 1 gene in alcohol drinking and relapse behaviors of Marchigian Sardinian alcohol-preferring (msP) rats. *Frontiers in Addictive Disorders & Behavioral Dyscontrol*. Apr 12;4:23.
43. Kallupi M., Wee S., Edwards S., Whitfield T.W., Oleata C.S., Luu G., Schmeichel B.E., Koob G.F. and **Roberto M.** (2013) Kappa Opioid Receptor-Mediated Dysregulation of GABAergic Transmission

in the Central Amygdala in Cocaine Addiction. *Biological Psychiatry*, 2013 Oct 1;74(7):520-8. doi: 10.1016/j.biopsych.2013.04.028. Epub 2013 Jun 14.

Press Release by *The Scripps Research Institute* published in:

Science Daily: online June 12, 2013; retrieved from

<http://www.sciencedaily.com/releases/2013/06/130612144735.htm>

<http://alert.psychiatricnews.org/2013/06/addictions-dark-side-rises-as-important.html>

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45. Kallupi M., Varodayan F., Oleata C.S., Correia D., Luu G. and **Roberto M.** (2013) Nociceptin/orphanin FQ decreases glutamate transmission and blocks ethanol-induced effects in the central amygdala of naïve and ethanol-dependent rats. *Neuropsychopharmacology*. 2014 Apr;39(5):1081-92. doi: 10.1038/npp.2013.308. Epub 2013 Oct 30.
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Nguyen J.D.*, Kirson D.*, Steinman M.Q., Patel R., Khom S., Varodayan F.P., Hedges D.M., Oleata C.S., Grant Y., **Roberto M.**, Taffe MA. Kappa opioid receptor antagonism blocks withdrawal-induced prescription opioid intake. *Submitted*. *Co-first authors

Serrano A., Pavon F.J., Buczynski M.W., Schlosburg J., Natividad L., Polis I.Y., Stouffer D., Zorrilla E.P., **Roberto M.**, Rodriguez de Fonseca F., Cravatt B.F., Martin-Fardon R., Parsons L.H. Opponent process in central amygdala endocannabinoid signaling marks the transition from alcohol self-administration to excessive intake associated to withdrawal-related anxiety. *Submitted*.

Avegno E.M, Lobell T.D., Itoga Christy A, Baynes B.B, Whitaker A.M, Weera M.M, Varodayan F.P., **Roberto M.**, Edwards S., Middleton J.W., & Gilpin N.W. Central amygdala circuits mediate hyperalgesia in alcohol-dependent rats. *Submitted*.

McClatchy D.B., Yu N., Patel R.R., Ehrenberger T., Lavallo-Adam M., Powell S., **Roberto M.**, and Yates J.R. Structural Analysis of Hippocampal Kinase Signal Transduction. *Submitted*.

Varodayan FP, Steinman MQ, Montgomery SE, Roberts AJ, Bajo M, **Roberto M.** Alcohol dependence alters IL-1 regulation of GABA transmission in the mouse prefrontal cortex. *In preparation*.

Varodayan F.P., Steinman M.Q., Oleata C.S., Sabino V., **Roberto M.** A single restraint stress alters PACAP-38 modulation of GABA transmission in the rat central amygdala. *In preparation*.

Patel R, Khom S, Steinman MQ, Varodayan FP, Hedges DM, Herman MA, Montgomery SE, Nadav T, Steiner N, Mandyam CD, Roberts AJ, Bajo M, **Roberto M.** Chronic ethanol-induced immune responses in the mouse central amygdala: focus on glia and IL-1 system. *In preparation*.

Plenary and Keynote Lectures:

Novartis Vaccines, Siena, Italy, May 24, 2006. "Drugs of abuse: cellular neuroadaptations in the brain."

Annual Congress of Research Society on Alcoholism, Baltimore, June 28, 2006, Plenary Lecture Young Investigator Award recipient: "Alcohol dependence: synaptic neuroadaptations in the amygdala."

European Society for Biomedical Research on Alcoholism, Berlin, Germany, September 25, 2007. Young Investigator Award recipient "Cellular mechanisms of ethanol and neuropeptide action in the amygdala: potential treatment for alcoholism."

The Scripps Research Institute Faculty Lecture Series, La Jolla, February 9, 2011, "Alcohol dependence: synaptic neuroadaptations in the amygdala."

Waletzky Memorial Award Lecture, Society for Neuroscience, San Diego, November 11, 2016.

Selected Invited International Oral Presentations:

1. Young Investigators in Neuroscience, Pisa, Italy, December 5-7, 2000. "The neuropeptide PACAP-38 increases the synaptic transmission in rat CA1 region."
2. XXXIII Annual Congress of the International Society of Psychoneuroendocrinology. Pisa, Italy, March 22, 2003. "Interactions of ethanol, neuropeptides and classical synaptic transmission in central amygdala."
3. Nociceptin/Orphanin FQ and its receptor: recent physiopharmacology achievements and pharmacotherapeutic perspectives. Camerino (MC), Italy, September 14, 2003. "Alcohol and neuropeptides in GABAergic transmission in the central nucleus of amygdala."
4. CNRS UMR; Neurobiologie des Processus Adaptatifs, Paris, France, May, 13 2005. "Alcohol and neuropeptide interactions on GABAergic transmission in the central amygdala."
5. Neuropharmacology and Neurobiology of Drug Abuse. Bologna, Italy, September 9, 2005. "Ethanol-CRF-Nociceptin interactions at GABAergic synapses in rat central amygdala."
6. Department of Experimental Biology, University of Cagliari, Italy, September 14, 2005, "Alcohol-neuropeptide interactions at GABAergic synapses in the central amygdala."
7. Department of Pharmacological Sciences & Experimental Medicine, University of Camerino, Italy, May 17, 2006. "Brain electrophysiology to investigate amygdala synaptic neuroadaptations associated with alcohol dependence."
8. International Society for Biomedical Research on Alcoholism, Sydney, Australia, September 10, 2006. "Ethanol-CRF-N/OFQ interactions at GABAergic synapses in central amygdala."
9. Institute of Psychiatry, King's College, London, UK, September 18, 2007, "Alcoholism: cellular neuroadaptations in the amygdala."
10. Alcoholism and Stress: A Framework for Future Treatment Strategies, Volterra, Pisa, Italy, May 7, 2008. "Ethanol and CRF: Which is driving GABA release in the amygdala?"
11. Special Satellite Meeting Integrative Neuroscience of Excessive Alcohol Drinking at IBNS, Cagliari, Italy, June 7, 2010. "Alcohol Dependence: Neuroadaptations in the Amygdala."
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13. Liceo Scientifico Carducci, Volterra, Italy, September 20, 2010. "Drugs of abuse and their effects on the brain."

14. Aspen Institute Conference: "Italian Scientists Abroad", Hotel Villa d'Este, Cernobbio, Lake Como, Italy, March 12, 2011. "How to facilitate an international scientific interchange of ideas and personnel."
15. Aspen Seminars for Leaders, Florence, Italy, November 19, 2011. The challenge for a globalized society: young people, women and family."
16. Aspen Institute Conference, Rome, Italy, April 15-16, 2012. "Italian Scientists Abroad".
17. Ministry of Foreign Affairs and Ministry of University and of Scientific and Technological Research, Rome, Italy, April 17, 2012. "The Italian Scientists in the world and the growth of the Country."
18. International Society for Biomedical Research on Alcoholism, Sapporo, Japan, September 11, 2012. "GABAergic synapses in the central nucleus of the amygdala: cellular mechanisms of ethanol."
19. 6th Edition of the International Prize, Genoa, March 11th, 2013, "Genoa: a woman standing out from the crowd."
20. Aspen Institute Conference: "Italian Scientists Abroad", Rome, Italy, April 19-21, 2013.
21. Aspen Seminars for Leaders, Venice, Italy, July 12-14, 2013. "Challenges and opportunities for a society that is changing: older, wiser and healthier."
22. Aspen Institute Conference: "Italian Scientists Abroad", Rome, Italy, September 21-22, 2014. "The importance of life-long learning."
23. Misericordia, Saline di Volterra, Italy, May 18, 2015. "Alcohol dependence and social consequences."
24. Aspen Seminars for Leaders: Venice, Italy, May 22-24, 2015. "Health in the twenty-first century: welfare for citizens, wealth to the country."
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28. International Society for Biomedical Research on Alcoholism, Berlin, Germany, September 5, 2016. "Amygdalar GABAergic synapses: Neuroadaptations induced by Alcohol and Stress."
29. Aspen Institute Conference: "Italian Scientists Abroad", Rome, Italy, September 25-26, 2016. "Climate Changes and Impact on Food."
30. Liceo Scientifico Carducci, Volterra, Italy, May 6, 2017. "Teenagers and Addiction."
31. Aspen Institute Conference: "Italian Scientists Abroad", Rome, Italy, July 9-10, 2017. "Society and occupation: the era of artificial intelligence."
32. Foundation Volterra Research, Pisa, Italy, October 5th, 2017. "Alcohol and other drugs of abuse: research and clinical prospective."
33. Aspen Seminars for Leaders: Venice, Italy, October 13-15th, 2017. "Healthcare 4.0 and the future of life science."

Selected Invited Oral Presentations:

1. Alcoholism: Toward an Integration of Basic and Clinical Research Training for the 21st Century. Indianapolis, IN, December 2, 2001. "Ethanol increases GABA- and decreases NMDA-mediated neurotransmission in rat central amygdala."
2. Bowles Center for Alcohol Studies, The University of North Carolina at Chapel Hill, NC, January 31, 2005. "Acute and chronic ethanol alter GABA and glutamate neurotransmission in rat central amygdala."
3. Department of Behavioral Neuroscience, Oregon Health and Science University, April 5, 2005. "Ethanol, GABA and neuropeptide interactions in central amygdala."
4. Annual Congress of Research Society on Alcoholism, Santa Barbara, CA, June 27, 2005. "Alterations of NMDA receptors in rat central amygdala after chronic ethanol exposure and protracted abstinence."
5. Department of Psychology, University of California, Santa Barbara, CA, January 20, 2006. "Ethanol-dependence induces neuroadaptations at GABAergic synapses in central amygdala."
6. Bowles Center for Alcohol Studies, The University of North Carolina at Chapel Hill, NC, May 8, 2006. "The amygdala: synaptic and peptidergic neuroadaptations associated with alcohol dependence."
7. The Scripps Education Outreach Programs, La Jolla, CA, November 14, 2006. "Cellular physiology of alcohol and drugs of abuse in the brain."
8. The Ernest Gallo Center & Research Center, University of California San Francisco, CA, February 14, 2007. "Ethanol-induced adaptations at the amygdala synapses."
9. Annual Congress of Research Society on Alcoholism, Chicago, IL, July 10, 2007. "PKC-epsilon involvement in the sensitivity to ethanol of the GABAergic synapses in central amygdala."
10. Annual Congress of Research Society on Alcoholism, Washington DC, June 30, 2008. "Ethanol and CRF: Which drives GABA release in the amygdala?"
11. The Scripps Research Institute, La Jolla, CA, September 19, 2008. "Synaptic effects of ethanol: role of neuropeptides in the amygdala."
12. Physiology and Biophysics Department, Georgetown University Medical School, Washington, DC, November 14, 2008. "Cellular mechanisms of ethanol and neuropeptides in GABAergic synapses in the amygdala."
13. Annual Congress of Research Society on Alcoholism, San Diego, CA, June 22, 2009. "Intracellular pathways involved in the ethanol and CRF sensitivity of GABAergic synapses in central amygdala."
14. Department of Physiology and Biophysics, University of Illinois, Chicago, IL, July 24, 2009. "Intracellular mechanisms involved in the ethanol effects on GABAergic synapses in the amygdala."
15. Department of Neurosciences, University of New Mexico, Albuquerque, November 12, 2009. "Modulation of synaptic transmission by ethanol and neuropeptides in the amygdala."
16. The Sanford Burnham Institute for Medical Research, La Jolla, CA, November 14, 2009. "Drug induced alterations in neuronal functions and synaptic communication."
17. National Institute of Alcohol Abuse and Alcoholism, Bethesda, MD, January 14, 2010 "Ethanol dependence: neuroadaptations in the amygdala."

18. Annual Congress of Research Society on Alcoholism, San Antonio, TX, June 29, 2010. "CRF-N/OFQ interactions at the GABAergic synapses in central amygdala."
19. The Scripps Research Institute, La Jolla, March 25, 2011, "Cellular Neuroadaptations in the amygdala in alcohol dependence."
20. Annual Congress of Research Society on Alcoholism, Atlanta, GA, June 27, 2011. "Critical role of amygdala NPY and CRF systems in alcohol dependence."
21. Gordon Research Conference on Inhibition in the CNS, Colby College Waterville, ME. July 24, 2011. "The inhibitory GABAergic system in the central amygdala: implication in ethanol dependence."
22. Annual ISSNAF conference, University of California Los Angeles, CA, September 17, 2011. "New Inhibitory Transmission in the Mouse Brain."
23. Annual Society for Neuroscience Meeting, Washington DC, November 14, 2011. "Cellular mechanisms of CRF at the GABAergic synapses in the central amygdala: role in ethanol dependence."
24. Charleston Alcohol Research Center, Medical University of South Carolina, Charleston, SC, February 21, 2013. "Amygdalar synaptic neuroadaptations associated with alcohol dependence."
25. Waggoner Center for Alcohol and Addiction Research, University of Texas at Austin, Austin, TX, April 26, 2013. "The drunken amygdala synapse: a role for neuropeptides."
26. Gordon Research Conference on Alcohol & the Nervous System, Galveston, TX. February 18, 2014. "Synaptic mechanisms of ethanol and neuropeptides in the central amygdala."
27. National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD, September 2nd 2014. Workshop on Neuroimmune Mechanisms Contributing to Addiction Neurobiology "Innate immune factors modulate ethanol interaction with GABAergic transmission in the central amygdala."
28. Annual Society for Neuroscience Meeting, Washington DC, November 14, 2014. "Stress, Neuroinflammation in amygdala in relation to alcohol use."
29. The Scripps Research Institute, La Jolla, January 21st, 2015, "Neuropeptides in stress and addiction."
30. 17th Annual Perspectives on Science (POS) Lecture Series at Point Loma Nazarene University, San Diego, March 17th, 2015, "Alcohol and drugs of abuse: neuronal adaptations in the brain."
31. Fourth Annual Addiction Symposium, University of Florida, Center for Addiction Research & Education, Gainesville, FL, April 19, 2016. "Amygdala and CRF in alcohol dependence."
32. Boston University School of Medicine, MA, May 11th, 2016. "Amygdalar neuroadaptations induced by ethanol dependence."
33. Annual Congress of Research Society on Alcoholism, New Orleans, LA, June 28, 2016. "Amygdalar GABAergic Synapses: Neuroadaptations Induced by Alcohol."
34. Bicoastal TSRI/Calibr Retreat, Palm Springs, CA, February 19-21st, 2017. "Addiction."
35. Texas A&M Neuroscience, College Station, TX, March 2nd, 2017, "Amygdala Dysregulation in Alcohol Dependence."
36. 23rd Scientific Conference of the Society of NeuroImmune Pharmacology, March 29-April 1, 2017; Philadelphia, PA, "Neuroimmune factors in alcohol-induced neuroadaptation in the central amygdala."

37. National Primate Research Center Beaverton, Portland, OR; Data integration from Monkey Model of Alcohol Drinking, 2nd Symposium, August 25th 2017, “Amygdalar synaptic adaptation.”
38. Neuroscience Retreat, La Jolla, CA, September -15th, 2017. “Cellular Mechanism of Addiction.”
39. University of Pennsylvania, The Mahoney Institute for Neurosciences colloquium series, Philadelphia, PA; September 20, 2017, “The Addicted Amygdala.”
40. National Institute on Drug abuse, Intramural Research program, Baltimore; November -9th 2017, “Addiction and Neuropeptides in the Amygdala.”
41. Department of Pharmacology & Neuroscience, Texas Tech University Health Science Center – Lubbock, TX, November -16th 2017, “Synaptic Mechanisms of Alcohol Dependence.”

Selected Symposium Chair/Organizer at National and International Meetings:

- 1 XXXIII Annual Congress of the International Society of Psychoneuroendocrinology. Pisa, Italy, March 22, 2003. Organizer and Chair of the Symposium entitled “Psychoneuroendocrine and neuronal networks involved in ethanol-induced synaptic and behavioral modifications.”
- 2 Annual Congress of Research Society on Alcoholism, Santa Barbara, CA, June 27, 2005. Organizer and Chair of the Symposium “The tipsy terminal: presynaptic effects of ethanol.”
- 3 International Society for Biomedical Research on Alcoholism, Sydney, September 10, 2006. Organizer and Chair of the Symposium “Peptidergic modulators in alcohol dependence: what are they? How do they work?”
- 4 Annual Congress of Research Society on Alcoholism, Chicago, IL, July 10, 2007. Organizer and Chair of the Symposium “PKC pathways and ethanol: from cells to behavior.”
- 5 European Society for Biomedical Research on Alcoholism (ESBRA), Berlin, Germany, September 26, 2007. Organizer and Chair of the Symposium “The brain arousal system and alcohol addiction.”
- 6 Alcoholism and Stress: A Framework for Future Treatment Strategies, Volterra, Pisa, Italy, May 6, 2008. Organizer and Chair of the Symposium “Corticosteroids and therapeutic targets in ethanol dependence.”
- 7 Annual Congress of Research Society on Alcoholism, Washington DC, June 29, 2008. Organizer and Chair of the Symposium “Endocannabinoid participation in alcohol’s effects on neurophysiology and behavior.”
- 8 Annual Congress of Research Society on Alcoholism, San Diego, CA, June 22, 2009. Organizer and Chair of the Symposium “Molecular mechanisms underlying the presynaptic actions of ethanol.”
- 9 Annual Congress of Research Society on Alcoholism, San Antonio, TX, June 29, 2010. Organizer and Chair of the Symposium “Alcohol modulation of synaptic transmission and plasticity in emotional neural circuitry: why all the worry?”
- 10 International Society for Biomedical Research on Alcoholism, Paris, France, September 14, 2010. Organizer and Chair of the Symposium “The role of neuropeptide systems in alcohol dependence.”
- 11 Alcoholism and Stress: A Framework for Future Treatment Strategies, Volterra, Pisa, Italy, May 3, 2011. “Introduction and opening remarks.”
- 12 Annual Congress of Research Society on Alcoholism, San Francisco, CA, June 25, 2012. Organizer and Chair of the Symposium “The tonic side of alcohol: modulation of extrasynaptic receptors across the brain.”

- 13 International Society for Biomedical Research on Alcoholism, Sapporo, Japan, September 12, 2012. Organizer and Chair of the Symposium “Emerging Targets and new treatment strategies for alcoholism.”
- 14 Annual Congress of Research Society on Alcoholism, San Antonio, TX, June 22, 2015. Organizer and Chair of the Symposium “Calcium signaling toolkit: integrators and targets of alcohol.”
- 15 Alcoholism and Stress: A Framework for Future Treatment Strategies, Volterra, Pisa, Italy, May 9-12 2017. “Introduction and opening remarks.”

Selected Poster Presentations:

1. Mozzachiodi R., **Roberto M.**, Scuri S., Zaccardi M.L. and Brunelli M. (1997) Caulerpenyne: a biotoxin from seaweed *Caulerpa taxifolia* affects the Na⁺/K⁺ electrogenic pump in invertebrate neurons. VI International Symposium on Neurotoxins in Neurobiology, Parghelia: 61, C-2.
2. Brunelli M., Garcia-Gil M., Mozzachiodi R., **Roberto M.**, Scuri R., Traina G. and Zaccardi M.L. (1998) Caulerpenyne, a seaweed biotoxin, provokes the inhibition of the Na⁺/K⁺ electrogenic pump in neurons. Soc. Neurosci. Abstr. 24: 92.12.
3. **Roberto M.**, Nelson T.E., Sanna P.P. and Gruol D.L. (1999) Chronic intermittent ethanol exposure alters CA1 Long-Term Potentiation in rat hippocampal slices. Soc. Neurosci. Abstr. 25: 596.20.
4. **Roberto M.**, Nelson T.E., Ur C.L. and Gruol D.L. (2000) Short-term CIET alters CA1 Long-Term Potentiation in rat hippocampal slices. Alcohol Clin. Exp. Res. Suppl. Vol. 24, 5:28.
5. **Roberto M.**, Madamba S., Nie Z., Moore S. and Siggins G. (2000) Ethanol increases GABAergic but decreases glutamatergic transmission in rat CeA. Alcohol Clin. Exp. Res. Suppl. Vol. 24, 5:232.
6. Nelson T.E., **Roberto M.**, Ur C.L., Sanna P.P. and Gruol D.L. (2001) Short-Term chronic intermittent ethanol exposure alters Long-Term Potentiation (LTP) and the activation of MAP Kinase (MAPK) in hippocampal CA1. Alcoholism Clin. Exp. Res. Suppl. Vol. 25, 5:5.
7. **Roberto M.**, Scuri R. and Brunelli M. (2001) Differential effects of PACAP-38 on evoked synaptic responses in CA region in rat hippocampal slices. Soc. Neurosci. Abstr. 477.5
8. **Roberto M.**, Madamba S. and Siggins G.R. (2001) Ethanol increases GABA- and decreases NMDA-mediated neurotransmission in rat central amygdala. Alcoholism: Toward an Integration of Basic and Clinical Research Training for the 21st Century.
9. **Roberto M.**, Madamba S.G., Moore S.D. and Siggins G.R. (2002) Ethanol increases GABA- and decreases NMDA-mediated neurotransmission in rat central amygdala. Workshop on the amygdala in brain function: basic and clinical approaches. Galveston (TX).
10. **Roberto M.**, Madamba S.G. and Siggins G.R. (2002) Acute and chronic ethanol alters glutamatergic transmission in rat central amygdala. Alcohol Clin. Exp. Res. Suppl. Vol. 26, 5:63.
11. **Roberto M.**, Madamba S.G. and Siggins G.R. (2003) Acute and chronic ethanol decreases glutamatergic transmission in rat central amygdala. International Society of Psychoneuroendocrinology Pisa, (Italy).
12. **Roberto M.**, Madamba S.G. and Siggins G.R. (2003) Gabapentin increases GABAergic transmission in rat central amygdala. Alcohol Clin. Exp. Res. Suppl. Vol. 27, 5:299.
13. **Roberto M.**, Madamba S.G., Stouffer D.G., Parsons L.H. and Siggins G.R. (2003) Ethanol administration increases *in vitro* and *in vivo* GABAergic transmission in rat central amygdala. Alcoholism Clin. Exp. Res. Suppl. Vol. 27, 5:300.

14. **Roberto M.**, Bajo M., Madamba S.G., Acosta T., de Lecea L. and Siggins G.R. (2003) Acute and chronic ethanol alters NMDA receptor (NMDAR)-mediated transmission in rat central amygdala. Soc. Neurosci. Abstr. 153.14.
15. **Roberto M.**, Schweitzer P., Madamba S.G., Stouffer D.G., Parsons L.H. and Siggins G.R. (2004) Acute and chronic ethanol alter GABA and glutamate neurotransmission. Alcohol Clin. Exp. Res. Suppl. Vol. ISBRA 28: 13.17.
16. **Roberto M.**, Madamba S.G., Stouffer D.G., Parsons L.H. and Siggins G.R. (2004) Ethanol increases GABA release in rat central amygdala. Alcohol Clin. Exp. Res. 28:511.
17. **Roberto M.**, Madamba S.G., and Siggins G.R. (2004) Nociceptin/Orphanin FQ blocks the ethanol-induced enhancement of GABAergic transmission in the central amygdala. Alcohol Clin. Exp. Res. 28:295.
18. O'Dell L.E., **Roberto M.**, Morse A.C., Brennan M.A., Siggins G.R. and Koob G.F. (2004) Gabapentin reduces excessive drinking in ethanol-dependent rats through GABA modulation. Alcohol Clin. Exp. Res. 28:43.
19. **Roberto M.**, Bajo M., Madamba S.G., de Lecea L. and Siggins G.R. (2004) Neuroadaptations of NMDA Receptors in rat central amygdala after chronic ethanol exposure and withdrawal. Soc. Neurosci. Abstr. 957.16.
20. Bajo M., Martin G., Crawford E., **Roberto M.**, Madamba S.G., de Lecea L. and Siggins G.R. (2004) Chronic morphine alters expression of NMDA receptor subunits in the nucleus accumbens and central amygdala. Soc. Neurosci. Abstr. 49.8.
21. **Roberto M.**, Schweitzer P., Madamba S.G., Nie Z. and Siggins G.R. (2005) Ethanol-CRF interactions at GABAergic synapses in rat central amygdala. Alcohol Clin. Exp. Res. 29:26
22. **Roberto M.**, Bajo M., Crawford E., Acosta T., Madamba S.G. and Siggins G.R. (2005) Alterations of NMDA receptors in rat central amygdala after chronic ethanol exposure and protracted abstinence. Alcohol Clin. Exp. Res. 29:132
23. Parsons L.H., **Roberto M.** and Siggins G.R. (2005) Acute and chronic ethanol administration increases GABA release in the CeA: *in vitro* and *in vivo* studies. Alcohol Clin. Exp. Res. 29:3
24. **Roberto M.**, Schweitzer P., Ciccocioppo R., Madamba S.G. and Siggins G.R. (2005) Ethanol-CRF-Nociceptin interactions at GABAergic synapses in rat central amygdala. Booklet of Neuropharmacology and Neurobiology of Drug Abuse.
25. **Roberto M.**, Schweitzer P., Madamba S.G. and Siggins G.R. (2005) Ethanol-Neuropeptides interactions at GABAergic synapses in rat central amygdala. Society for Neuroscience.
26. Schweitzer P., Slanina K., Lambolez B. and **Roberto M.** (2005) Cyclooxygenase-2 regulates endocannabinoids that decrease excitatory transmission and restrict synaptic potentiation via CB1 in hippocampus. Society for Neuroscience.
27. Nie Z., **Roberto M.** and Siggins G.R. (2006) CRF and ethanol postsynaptically alter NMDA receptor mediated synaptic transmission in the mouse central amygdala. Alcohol Clin. Exp. Res. 30:6, P58.
28. Siggins G.R., Nie Z. and **Roberto M.** (2006) Chronic ethanol exposure elicits multiple sites of neuroadaptation in synapses of the central amygdala. Alcohol Clin. Exp. Res. 30:6, S50.
29. **Roberto M.** (2006) Ethanol-CRF-N/OFQ interactions at GABAergic synapses in central amygdala. Alcohol Clin. Exp. Res. 30:9, 259.

30. **Roberto M.**, O'Dell L.E., Morse A.C., Madamba S, Siggins G.R and Koob G.F. (2006) Gabapentin alters GABAergic transmission in central amygdala and ethanol intake in ethanol-dependent rats. Soc Neurosci. Abst. Program # 292.6, Online.
31. **Roberto M.**, Treistman S.N., Pietrzykowski A. Z., Weiner J., Galindo R., Mameli M., Valenzuela F.C., Zhu P.J., Lovinger D., Zhang T.A., Hendricson A.H., Morrisett R. and Siggins G.R. (2006) Actions of acute and chronic ethanol on presynaptic terminals. Alcoholism Clin. Exp. Res. 30 (2): 222-32.
32. Woodward J.J., Ron D., Winder D. and **Roberto M.** (2006) From Blue States to Up States: A regional view of NMDA-ethanol interactions. Alcoholism Clin. Exp. Res. 30 (2): 359-67.
33. Breese G.R., Criswell H.E., Carta M, Dodson P.D., Hanchar H.J., Khisti R.T., Mameli M., Ming Z., Morrow A.L., Olsen R.W., Otis T.S., Parsons L.H., Penland S.N., **Roberto M.**, Siggins G.R., Valenzuela C.F. and Wallner M. (2006) Basis of the gabamimetic profile of ethanol. Alcoholism Clin. Exp. Res. 30 (4): 731-44.
34. Bajo M, Messing R.O., Siggins G.R. and **Roberto M.** (2007) PKC-epsilon involvement in the sensitivity to ethanol of the GABAergic synapses in CeA. Alcohol Clin. Exp. Res. 31:6, S194.
35. **Roberto M.**, Cruz M.T., Bajo M., Siggins G.R. and Schweitzer P. (2007) CB1 regulates the ethanol modulation of inhibitory synaptic transmission in CeA. 17th Neuropharmacology Conference.
36. Bajo M, **Roberto M.**, Madamba S.G. and Siggins G.R. (2007) Effects of chronic morphine treatment on membrane and GABAergic synaptic properties of central amygdala neurons. Soc Neurosci. Abst. Program # 609, Online.
37. Cruz M.T., Bajo M., Tabakoff B., Siggins G.R. and **Roberto M.** (2007) Adenylyl cyclase type VII is involved in the CRF and ethanol sensitivity of GABAergic synapses in mouse central amygdala. Soc Neurosci. Abst. Program # 609, Online.
38. Maragnoli M.E., Pronko S., Couppis M.H., **Roberto M.** and Tabakoff B. (2008) Adenylyl cyclase 7 transduction pathway is a key modulator of stress-related response. Alcohol, vol. 42, 4: S20
39. Desrivieres S., Johann M., **Roberto M.** and Gunter S (2008) Analysis of dopamine neurotransmitter pathways reveals gender-specific association of alcohol dependence with potassium channel gene KCNJ6 in males and the adenylyl cyclase 7 and dopamine receptor 2 gene in females. Alcohol, vol. 42, 4: S21
40. Siggins G.R., Nie Z., Madamba S. and **Roberto M.** (2008) Possible stress-related role of central amygdala glutamatergic synapses in ethanol and CRF effects. Alcohol, vol. 42, 4: S69
41. Cruz M.T., Stouffer D., Madamba S., Siggins G.R., Parsons L.H. and **Roberto M.** (2008) Corticotropin-releasing factor receptor antagonists block the ethanol-induced release of GABA in the central amygdala. Alcohol, vol. 42, 4: P80
42. Bajo M., Cruz M.T., Maragnoli M.E, Tabakoff B., Siggins G.R. and **Roberto M.** (2008) Adenylyl cyclase type VII is involved in the ethanol sensitivity of GABAergic synapses in mouse central amygdala. Alcohol, vol. 42, 4: P81.
43. Cruz M.T., Stouffer D., Madamba S., Siggins G.R., Parsons L.H. and **Roberto M.** (2008) CRF1 receptor antagonists block the ethanol-induced release of GABA in the central amygdala *in vitro* and *in vivo*. Alcohol Clin. Exp. Res. 32, 6s1 P27A.
44. **Roberto M.**, Cruz M.T., Bajo M., Siggins G.R. and Schweitzer P. (2008) Interactions of ethanol and cannabinoids on synaptic transmission in central amygdala. Alcohol Clin. Exp. Res. 32, 6S1 P284A

45. Cruz M.T., Bajo M., Siggins G.R., Messing R.O. and **Roberto M.** (2008) Ethanol and CRF: Which drives GABA release in the amygdala?" Alcohol Clin. Exp. Res. 32, 6s1 P305A
46. **Roberto M.**, Cruz M.T., Bajo M. and Schweitzer P. (2008) Cannabinoids and ethanol interact on inhibitory and excitatory transmission in Central Amygdala. Soc Neurosci. Abst. Program # S-113067, Online
47. **Roberto M** and Koob G.F. (2009) First Congress of Alcoholism and stress: a framework for future treatment strategies: Introduction to the Proceeding. Alcohol 43(7):489-90
48. **Roberto M.**, Cruz M.T., Bajo M., Maragnoli M.E., Tabakoff B., Messing R.O., and Siggins G.R. (2009) Intracellular pathways involved in the ethanol and CRF sensitivity of GABAergic synapses in central amygdala. Alcohol Clin. Exp. Res. 33, 6s P315A.
49. Cruz M.T., Schweitzer P., Siggins G.R. and **Roberto M.** (2009) Nociceptin opposes ethanol and CRF action on GABAergic synapses in the amygdala. Alcohol Clin. Exp. Res. 33, 6s P149A.
50. Gilpin N.W., Misra K., **Roberto M.** and Koob FG. (2009) Role of Neuropeptide Y in the transition to alcohol dependence. Alcohol Clin. Exp. Res. 041, 6s P277A
51. Cruz M.T., Bajo M., Schweitzer P. and **Roberto M.** (2009) Ethanol dependence induces neuroadaptation of the nociceptin and CRF systems at the GABAergic synapses in the central amygdala. Soc Neurosci. Abst. Program # P-552, Online
52. Cottone P., Sabino V., **Roberto M.**, Bajo M., Pockros L., Steardo L., Rice K.C., Grigoriadis D.E, Conti B., Koob G.F. and Zorrilla E.P. (2009) Regulation of Food Intake and Body Weight. Soc Neurosci. Abst. Program # P-470, Online
53. Cruz M. T. and **Roberto M.** (2010) Ghrelin increases GABAergic transmission in the rat central nucleus of the amygdala. Alcohol Clin. Exp. Res. 34, 6S P749.
54. Schweitzer P., **Roberto M.** and Cruz M.T. (2010) Physiological interactions of alcohol and cannabinoids on inhibitory transmission in the central amygdala. Alcohol Clin. Exp. Res. 34, 8S S140.
55. Cruz M.T. and **Roberto M.** (2010) Nociceptin/Orphanin FQ blocks the CRF-induced increase of GABA transmission in the central nucleus of the amygdala. Alcohol Clin. Exp. Res. 34, 8S P 144.
56. Cruz M.T. and **Roberto M.** (2010) Ghrelin effects on GABAergic transmission in the rat central amygdala. Soc Neurosci. Abst. Program # P-103, Online
57. Gilpin N.W., **Roberto M.** and Schweitzer P. (2010) The kappa opioid receptor system regulates inhibitory transmission in rat central amygdala. Soc Neurosci. Abst. Program # P-368, Online
58. Herman M. and **Roberto M.** (2011) Acute ethanol potentiates tonic GABA_A receptor signaling in the central amygdala. Alcohol 45, 3, P 89.
59. Bajo M., Madamba S.G., **Roberto M.**, Blednov Y.A., Harris R.A., and Siggins G.R. (2011) TLR4 and IL-1 receptor-dependent modulation of ethanol effects on GABAergic transmission in the mouse central amygdala. Alcohol 45, 3, P 114.
60. Kallupi M., Cruz M.T., de Guglielmo G., Ubaldi M., Soverchia L., Oleata C.S., Ciccocioppo R., and **Roberto M.** (2011) Intra central amygdala injection of nociceptin exerts a potent anxiolytic-like action in restraint-stressed rats via changes in GABAergic transmission. Alcohol 45, 3, P 90.
61. Bajo M., Madamba S.G., **Roberto M.**, Blednov Y.A., Harris R.A., and Siggins G.R. (2011) TLR4 and IL-1 receptor-dependent modulation of ethanol effects on GABAergic transmission in the mouse central amygdala. Alcohol Clin. Exp. Res. 35:6, P0195.

62. Cruz M.T., Gilpin N.W. and **Roberto M.** (2011) Critical role of amygdala NPY and CRF systems in alcohol dependence. *Alcohol Clin. Exp. Res.* 35:6, S100
63. Herman M.A., Contet C., Justice N.J., Vale W., **Roberto M.** (2011) Tonic inhibitory transmission in CRF Receptor 1-containing neurons of the mouse Central Amygdala. Gordon Conference, July 23-24, Colby College, Waterville, ME "Development and Function of Inhibitory Interneurons."
64. **Roberto M.** (2011) Cellular mechanisms of CRF at the GABAergic synapses in the central amygdala: role in ethanol dependence. *Soc Neurosci. Abst. Program # Minisymposium 313.07*, Online
65. Bajo M., Madamba S.G., Blednov Y.A., Harris R.A., **Roberto M.**, and Siggins G.R. (2011) TLR4- and IL-1RI-dependent modulation of ethanol effects on GABAergic transmission in the mouse central amygdala. *Soc Neurosci. Abst. Program # P-908.02*, Online
66. Herman M.A. and **Roberto M.** (2011) Cell-type specific differences in tonic inhibitory transmission in neurons of the rat Central Amygdala. *Soc Neurosci. Abst. Program # P-41.04*, Online
67. Herman M.A., Contet C., Justice N.J., Vale W., **Roberto M.** (2012) Tonic inhibitory transmission in CRF Receptor 1-containing neurons of the mouse Central Amygdala. *Alcohol Clin. Exp. Res.* 36:6, S-090
68. Bajo M., Madamba S.G., **Roberto M.**, Roberts A., Blednov Y.A., Harris R.A., and Siggins G.R. (2012) A role for TLR4- and IL-1RI in ethanol effects on GABAergic transmission and ethanol drinking in mouse. *Alcohol Clin. Exp. Res.* 36:6, P-0719
69. Ayanwuyi L., Cippitelli A., Stopponi S., Kallupi M., **Roberto M.**, and Ciccocioppo C. (2012) Dysregulation of the extrahypothalamic corticotropin releasing factor (CRF) system and its role in anxiety- and relapse-like behaviors in Marchigian Sardinian alcohol preferring (msP) rats. Italian Society of Pharmacology meeting, Rimini 16-19 September.
70. **Roberto M.**, Cruz M.T., Gilpin N.W., Bajo M., Tabakoff B., Messing R.O., Koob G.F. and Siggins G.R. (2012) GABAergic synapses in the central nucleus of the amygdala: cellular mechanisms of ethanol.
71. Kallupi K., Wee S., Edwards S., Whitfield T., Oleata C.S., Luu G., Koob G.F. and **Roberto M.** (2012) Role of the kappa opioid system in the modulation of CeA GABAergic transmission in rats following extended access to cocaine self-administration. *Soc Neurosci. Abst. Program # P-872*, *Online*
72. Bajo M., Roberts A., Yin, H., Cates L.N., Nadav T., Madamba S.G., **Roberto M.**, and Siggins G.R. (2013) Behavioral and biochemical evaluation of TLR4 inhibitor T5342126 as a potential candidate drug for treatment of alcoholism. *Alcohol Clin. Exp. Res.* 36:6, P-0719
73. Buczynski M.W., Melissa A.H., Hsu K.L., Natividad L.A., Irimia C., Polis I.Y., Pugh H., Chang J.W., Niphakis M.J., Cravatt B.F., **Roberto M.**, and Parsons L.H. (2013) Diacylglycerol lipase-alpha inhibits GABA release in the ventral tegmental area during chronic nicotine exposure to facilitate drug self-administration. Gordon Conference, August 4-9, Waterville Valley, NH "Cannabinoids in Synapses, Circuits and the Human Brain."
74. Varodayan F. and **Roberto M.** (2013) Ethanol enhancement of GABA release in the central nucleus of the amygdala is mediated by calcium channels. *Soc Neurosci. Abst. Program # P- 155-02*, *Online*
75. Herman M.A., Contet C. and **Roberto M.** (2013) Cell type-specific alterations in tonic GABAA receptor transmission in the central amygdala of CRF receptor-1 reporter mice following chronic ethanol exposure. *Soc Neurosci. Abst. Program # P- 544-22*, Online

76. Herman M.A., **Roberto M.**, Conti B. (2013) IL-13 dynamically alters the excitability of dopamine neurons in the ventral tegmental area in wild type but not IL-13R α 1 knockout mice. Soc Neurosci. Abst. Program # P-223-21, Online
77. Bajo M., Roberts A., Yin, H., Cates L.N., Nadav T., K. Cheng, S. Coulup, Madamba S.G., **Roberto M.**, and Siggins G.R. (2013) Evaluation of TLR4 inhibitor T5342126 as a potential candidate drug for treatment of alcoholism. Soc Neurosci. Abst. Program # P-544-06, Online
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