Curriculum Vitæ
(updated May 2023)

Name	Marco Atzori
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Education

1989 B.S. in Physics, University of Trieste, Italy
Experimental thesis on: "N.M.R., physical principles and methods of imaging: texture analysis-based image processing".

1993 M.Sci. in Biophysics (S.I.S.S.A./I.S.A.S., Trieste, Italy) Experimental thesis on: "The effect of repeated stimulation of the optic nerve on evoked field potentials in the frog optic tectum".

1995 Ph.D. in Biophysics (S.I.S.S.A./I.S.A.S., Trieste, Italy) thesis on: "Mechanisms of control and modulation of the GABAergic system in the rat hippocampus"

Employment

1996-2000	**Post-Doctoral Fellow:** **Univ. of Tennessee at Memphis, TN** **NIDCD, Bethesda, MD** **NICHD, Bethesda, MD**
2001-2004	**Research Assistant Professor:** **Blanchette Rockefeller Neuroscience Institute** **Rockville MD**
2004-2013	**Associate Professor (with tenure):** **Univ. of Texas at Dallas, Richardson TX**
2013-2020	**Full Professor (with tenure):** **Univ. Autonomous of San Luis Potosi** **San Luis Potosi, SLP, Mexico**
2020-2022	**Professor** **West Palmer College, San Jose' CA**
2022-2023	**Lecturer** **Santa Clara University, San Jose' CA** **Las Positas College, Livermore CA**

Status	US Citizen
Languages	English, Spanish, Italian
Citations	Google Scholar: 2437, h-index: 26, i-10: index 42
Past and current Memberships	Society for Neurosciences (SfN) Association for Research in Otolaringology (ARO)
Grant reviewer	NIH, NSF, MRC, CONACyT
Associate editor	Frontiers in Synaptic Neuroscience, Frontiers in System Neuroscience, Neurotransmitter
***Ad-hoc* reviewer**	Brain Research; Behavior, Brain and Inflammation; Cerebral Cortex; Developmental Neuroscience; Environmental Toxicology and Pharmacology; Experimental Biology and Medicine; European Journal of Neuroscience; Frontiers in Synaptic Neuroscience; Frontiers in System Neuroscience; Hippocampus; Journal of Chemical Neuroanatomy; Journal of Neurochemistry; Journal of Neurophysiology; Journal of Neuroscience; Journal of Physiology London; Medical Science Monitor; Molecular Pain; Molecular and Cellular Neuroscience; Molecular Neurobiology; Molecular Neurodegeneration; Molecular Pharmacology; Neurobiology of Disease; Neuropharmacology; Neuroscience; Neuroscience and Biobehavioral Reviews; Neuroscience Letters; PLOS One; Synapse; and others.

Work experience:

- September 2022 – August 2024:
  Yearly Lecturer
  Santa Clara University, San Jose' CA, US
  Duties: Teaching (undergraduate)

- August 2022 - December 2023:
  Adjunct Professor (Human Physiology)
  Las Positas College
  Duties: Teaching (undergraduate)

- Sep 2020 - August 2022:
  Prof. of Neuroscience and Neurology
  Palmer West College, San Jose' CA, US
  Duties: Teaching (graduate students)

- Sept 2013 - Aug 2020:
  Full Time Professor, tenured
  UASLP, San Luis Potosí, SLP, México.
  Graduate Progr.: Biomedical Basic Sciences, Medicine Faculty
  Director of the Lab. of Neurophysiology, Pharmacology and Animal Behavior
  Undergraduate Program: Biology, Faculty of Sciences
  Duties: Research and Teaching (undergrad. and grad. students)

- Sep 2004 - Aug 2013:
  Associate Professor, tenured
  University of Texas at Dallas
  School of Behavioral and Brain Sciences, Richardson, TX
  Director of the Laboratory of Cell and Synaptic Physiology
  Duties: Research and Teaching (undergrad. and grad. Students)

- Feb 2001- Aug 2004:
  Research Assistant Professor, BRNI
  Blanchette Rockefeller Neuroscience Institute, Rockville, MD
  Director of the Laboratory of Synaptic Neurophysiology
  Duties: Research in Neurobiology

- May 1998- Jan 2001 - May 1998:
  Fogarty Fellow, NICHD/NIH
  National Institute of Children and Human Development
  NIH (Bethesda, MD), Post-doctoral trainee
  Laboratory of Cell and Synaptic Physiology
  Duties: Research in Neuroscience

- April 1997 - April 1998:
  Fogarty Fellow, NIDCD/NIH
  National Institute of Deafness and other Communication Disorders (Bethesda, MD), Post-doctoral Trainee, Laboratory of Cell Biology
  Duties: Research in Cell Biology

- Feb 1997-Mar 1997:
  Electrophysiologist, UNAM
  (Universidad Nacional Autonoma de Mexico, Mexico City)
  Institute of Cell Physiology, Consultant
  Duties: Electrophysiology Consultant

- Jan 1996- Jan 1997:
  Fulbright Fellow, UT Memphis
  University of Tennessee, Health Science Center
  Post-doctoral trainee, Lab. of Synaptic Physiology
  Duties: Research in Synaptic Physiology

<u>Courses taught by area</u> (course and catalog number below)

Biology

Human Physiology
Animal Physiology
Gastrointestinal and Renal Physiology
Biological Pharmacology
Biophysics laboratory
Bioethics

Neuroscience

Neurophysiology
Cellular Neuroscience
Basic Neuroscience
Foundations of Neurology
Neuroendocrinology
Neurotoxicology
Neuroanatomy
Neuroscience Laboratory Methods
Synaptic Physiology

Quantitative sciences in Biomedicine

Calculus 1 for Biologists
Calculus 2 for Biologists
Quantitative Methods in Neuroscience
Physics for Biologists
Mathematical models in Biology
Statistics for Biology and Neuroscience
Seminar in Neuroscience

Available to teach

Microbiology
Immunology
Biochemistry
Physiology of specific systems
Medical Instrumentation
Basic and Clinical Electrophysiology

Other courses in the biomedical area

History and catalog number of courses taught

University of Texas at Dallas (UTD)

Fall	04	Synaptic Physiology	NSC 7372 (grad lev.)
Spring	05	Cellular Neuroscience	ACN 6340 (grad lev.)
Fall	05	Neurophysiology	NSC 4365 (undergrad.)
Spring	06	Cellular Neuroscience	ACN 6340 (grad lev.)
Spring	06	Neuroscience Lab. Methods	NSC 4353 (undergrad.)
Fall	06	Cellular Neuroscience	NSC 4352 (undergrad.)
Fall	06	Neurophysiology	NSC 4356 (undergrad.)
Spring	07	Cellular Neuroscience	ACN 6340 (grad lev.)
Spring	07	Quantitative Methods in Neurosci.	HCS 7372 (grad lev.)
Fall	07	Synaptic Physiology	HCS 7372 (grad lev.)
Fall	07	Cellular Neurosci.	ACN 6340 (grad lev.)
Spring	08	Neurotoxicology	NSC 4V90 (grad lev.)
Spring	08	Cellular Neurosci.	ACN 6340 (grad lev.)
Fall	08	Neurophysiology	NSC 4365 (undergrad.)
Fall	08	Cellular Neuroscience	ACN 6340 (grad lev.)
Spring	09	Cellular Neuroscience	ACN 6340 (grad lev.)
Spring	09	Cellular Neuroscience	NSC 4352 (undergrad.)
Fall	09	Neurophysiology	NSC 4365 (undergrad.)
Fall	09	Neuroendocrinology	HCS 7200 (grad lev.)
Spring	2010	Cellular Neuroscience	ACN 6340 (grad lev.)
Spring	2010	Cellular Neuroscience	NSC 4352 (undergrad.)
Fall	2010	Cellular Neuroscience	NSC 4352 (undergrad.)
Fall	2010	Neuroendocrinology	NSC 4370 (undergrad.)
Spring	2011	Cellular Neuroscience	NSC 4352 (undergrad.)
Spring	2011	Synaptic Physiology	NSC 7372 (grad lev.)
Fall	2011	Cellular Neuroscience	HCS 6340 (grad lev.)
Fall	2011	Neuroendocrinology	NSC 4370 (undergrad.)
Spring	2012	Cellular Neuroscience	NSC 4352 (undergrad.)
Spring	2012	Neurotoxicology	HSC 7372 (grad lev.)
Fall	2012	Cellular Neuroscience	NSC 4352 (undergrad.)
Fall	2012	Neurotoxicology	NSC 4V90 (undergr lev.)

Univ. Aut. of San Luis Potosi (UASLP, undergrad level, unless specified, no catalog number available in this university)

Spring	2013	Biophysics laboratory
Fall	2013	Special topics on Biophysics II
Spring	2014	Calculus 2 for Biology
Spring	2014	Bioethics
Spring	2014	Animal Physiology
Fall	2014	Calculus 1 for Biology
Fall	2014	Physics for Biology
Spring	2015	Bioethics
Spring	2015	Mathematical Methods for Biology

Spring 2015 Calculus 2 for Biology
Fall 2015 Calculus 1 for Biology
Fall 2015 Physics for Biology
Fall 2015 Neurophysiology
Spring 2016 Calculus 2 for Biology
Spring 2016 Bioethics
Fall 2016 Calculus 1 for Biology
Fall 2016 Physics for Biology
Fall 2016 Neurophysiology
Fall 2016 Neuroendocrinology (postgrad lev.)
Spring 2017 Calculus 2 for Biology
Spring 2017 Bioethics
Fall 2017 Calculus 1 for Biology
Fall 2017 Physics for Biology
Fall 2017 Neuroendocrinology (postgrad. lev.)
Spring 2018 Bioethics
Spring 2018 Calculus 2 for Biology
Fall 2018 Calculus 1 for Biology
Fall 2018 Physics for Biology
Fall 2018 Neurophysiology
Fall 2018 Neuroendocrinology (postgrad. lev.)
Spring 2019 Bioethics
Spring 2019 Calculus 2 for Biology
Spring 2019 Biological pharmacology
Fall 2019 Calculus 1 for Biology
Fall 2019 Physics for Biology
Fall 2019 Neurophysiology
Fall 2019 Neuroendocrinology (postgrad. lev.)
Spring 2020 Calculus 2 for Biology
Spring 2020 Bioethics
Spring 2020 Biological pharmacology

Palmer West College

Fall 2020 Neuroanatomy 1 (Basic Neuroanatomy, ANAT52128)
Fall 2020 Neuroscience 1 (Basic Neuroscience, MIPA52126)
Fall 2020 Neuroscience 2 (Fundam. of Neurology, MIPA53139)
Winter 2021 Neuroanatomy 1 (Basic Neuroanatomy, ANAT52128)
Winter 2021 Neuroscience 1 (Basic Neuroscience, MIPA52126)
Winter 2021 Neuroscience 2 (Fundam. of Neurology, MIPA53139)
Spring 2021 Neuroanatomy 1 (Basic Neuroanatomy, ANAT52128)
Spring 2021 Neuroscience 1 (Basic Neuroscience, MIPA52126)
Spring 2021 Neuroscience 2 (Fundam. of Neurology, MIPA53139)
Summer 2021 Neuroanatomy 1 (Basic Neuroanatomy, ANAT52128)
Summer 2021 Neuroscience 1 (Basic Neuroscience, MIPA52126)
Summer 2021 Neuroscience 2 (Fundam. of Neurology, MIPA53139)
Fall 2021 Neuroanatomy 1 (Basic Neuroanatomy, ANAT52128)
Fall 2021 Neuroscience 1 (Basic Neuroscience, MIPA52126)
Fall 2021 Neuroscience 2 (Fundam. of Neurology, MIPA53139)
Winter 2022 Neuroanatomy 1 (Basic Neuroanatomy, ANAT52128)

Winter	2022 Neuroscience 1 (Basic Neuroscience, MIPA52126)
Winter	2022 Neuroscience 2 (Fundam. of Neurology, MIPA53139)
Summer	2022 Neuroscience 2 (Fundam. of Neurology, MIPA53139)
Summer	2022 Gastrointestinal and renal physiology (PHYS 53132)

Santa Clara University

Fall	2022 Statistics (Statistics for Biol. Sciences, STAT 160)
Fall	2022 Seminar on Neuroscience (NEURO 150)
Winter	2023 Explorations in Neuroscience (NEUR 10)
Winter	2023 Seminar on Neuroscience (NEUR 150)
Spring	2023 Introduction to Neuroscience (NEUR 1)

Las Positas College

Fall	2022 Human Physiology (BIO 7B – H01 CRN 21379)
Spring	2023 Human Physiology (BIO 7B – H01 CRN 21379)

Teaching modality used

In person
Remote mode (experience with CANVAS, BrightSpace, Examsoft)
Hybrid (in-person plus remote)

Graduate students supervised

<u>Master</u> students

UTD
Asante Pace (medical student at UT Houston, TX)
Ankur Patel (doctoral student at UT Southwestern, Dallas TX)
Raniero Peru (doctoral student at UT Southwestern, Dallas TX)
Tram Nguyen (Intraoperative monitoring assistant, Plano TX)
Mary Lee (Intraoperative monitoring assistant, Plano TX)
Vivek Jeevamekumar (Ph.D., UTD)
Barbara Gibbons (UT San Antonio)
Zulma Peña-Contreras (Univ. de los Andes, Merida VE, Assistant Professor)
Ling-Yu Huang (M.Sci. UTD)

UASLP
Eric Esquivel Rendon (PCBB, UASLP)
Roberto Cuevas Olguin (PCBB, UASLP)

Master students mentored (thesis successfully defended)

- Timothy Bellay (UTD, PhD at Brown Univ.)
  Muscarinic modulation of GABAergic synapses in the rat auditory cortex
  July 2006

- Rajasekhar Byrapureddy (Intraoperative Monitoring, Boston)

Muscarinic modulation of pyramidal cell firing in the auditory cortex of rat
November 2009

- Mitali Bose (Regional Education Coordinator at Specialty Care, Boston)
  Effect of Environment on the Dendritic Morphology of Rat Auditory Cortex
  December 2010

- Mary Lee
  The effects of neurotensin on the GABAergic system of the auditory cortex
  August 2010

- Jessica Gabriela Rodriguez Melendez (co-director: Dr. Carlos Barajas Lopez, IPICyT)
  Purinergic Modulation of Hippocampal Synaptic Activity
  March 2016

- Teresa Belem Mares Barbosa (UASLP)
  Role of Interleukin 6 in an Animal Model of Chronic Fatigue Syndrome
  July 2018

Ph.D. students mentored (thesis successfully defended)

Lu Dinh: *Effect of Norepinephrine on Synaptic Transmission in Supragranular Layers of the Rat Temporal Cortex*, 2009 (UTD)

Justin Andrew Nichols: *Muscarinic Contribution to the Acute Cortical Effects of Vagus Nerve Stimulation*, 2011 (UTD)

Swagata Roychowdhury: *Role of the Noradrenergic System in the Acute Modulation of Cortical Activity: from Behavior to Synaptic Excitability*, 2013 (UTD)

Dewey Clay Brown: *Contribution of α-Adrenergic Receptors in Mediating Vigilant and Adaptive Behavior in Rodents,* 2013 (UTD)

Alejandra Loyola Leyva: *Morphological evaluation of erythrocytes of patients with type 2 Diabetes Mellitus by Atomic Force Microscope and its relationship with Biochemical Markers*, 2020 (UASLP)

Postdoctoral fellows supervised (2 years or more)

Dr. Humberto Salgado (PhD: UNAM, currently PTC UADY, Merida Yucatan)
Dra. Marcela Miranda-Morales (PhD: IPICyT)
Dra. Griselda Garcia (PhD: UAEM)

Research

Past experimental research interests

- Electrophysiology and morphology of GABA cells in hippocampus and neocortex
- Neuropeptide and monoamine modulation of GABAergic synaptic transmission
- Dynamics and properties of cortical glutamatergic synaptic transmission
- Voltage gated K^+ channels
- Physiology of auditory receptors
- Role of acetylcholine and monoamines in the temporal and prefrontal cortex
- Action of monoamines and cholinomimetics on attention
- Monoamine and acetylcholine direct modulation of NMDA receptors
- Correlation between inflammation and epileptic seizures
- Effects of inflammation on inhibitory GABAergic transmission
- Organic Chemistry Analytical Methods: Nuclear Magnetic Resonance Spectrometry
- MR Imaging for Clinical Diagnosis in Neurology
- Effect of diet and lipids on synaptic transmission
- Effects of diabetes on erythrocyte morphology
- Effect of natural extracts on depression and behavior
- Vagal Nerve Stimulation modulation of cortical activity
- Interactions between inflammation and stress

Animal models and clinical applications

- Auditory function
- Attention Deficit Disorders
- Autistic Spectrum Disorders
- Epilepsy, Schizophrenia, Psychoses
- Disorders of the Anxiety Spectrum
- Lipopolisaccharide-induced inflammation (aseptic inflammation)
- Social Defeat, anhedonia
- Vagal Nerve Stimulation (VNS)

Laboratory techniques

- Slice Physiology:

patch-clamp, sharp electrodes and extracellular recording in rodent brain slices

- In-vivo physiology:

Multi-single-unit extracellular recording, topical iontophoresis and pressure drug application, intraventricular drug injections, Stimulation of the Vagal Nerve (VNS)

- Anatomy and Immunohistochemistry:

biocytin single-cell reconstruction - neuron tracing, proteins monitoring with fluorescence techniques

- Animal Behavioral testing:

PC-based automated measurement of auditory attention in operating chambers, open field, Y maze, plus maze, rodent enriched environment

- Stress protocols:

Lipopolysaccharide injection, Mild electric shock, Restraint Stress, Prenatal Valproic Acid injections, Pentylenetrazole-induced convulsions, Social stress

- Magnetic responance:

Spectroscopy, Imaging

Peer Reviewed Publications

(56) G. García-Alonso, **M. Atzori**, R. Salgado, A. Báez, M. Miranda-Morales, A. Rangel, E. Guevara, R. Cuevas, J.M. Vega-Riquer, J.G. Avila-Acevedo, A. Monroy-Noyola *Antidepressant Effect of Buddleja cordata Methanolic Extract in Chronic Stress Mouse Model*, Pharmacogn. Mag. 17 (2021), 17:780-785

(55) E. Esquivel-Rendón E, J. Vargas-Mireles J, R. Cuevas-Olguín, M. Miranda-Morales M, P. Acosta-Mares P, F. García-Oscos, J.C. Pineda, H. Salgado, S. Rose-John, **M. Atzori**, *Interleukin 6 dependent synaptic plasticity in a social defeat-susceptible prefrontal cortex circuit*, Neuroscience 2019, 414: 280-414

(54) R. Cuevas-Olguin., E. Esquivel-Rendon, J. Vargas-Mireles, C. Barajas-López, R. Salgado-Delgado, N. Saderi, H.R. Arias, M. **Atzori**, M. Miranda-Morales *Nicotine smoking concentrations modulate GABAergic synaptic transmission in murine medial prefrontal cortex by activation of α7* and β2* nicotinic receptors*, Eur. J. of Neuroscience 2019, 51:781-792

(53) V. Cervantes-Ramírez, M. Canto-Bustos., D. Aguilar-Magaña., E. Pérez-Padilla., J.L. Góngora-Alfaro, J.C. Pineda, **M. Atzori**, H. Salgado: *Citalopram reduces glutamatergic synaptic transmission in the auditory cortex via activation of 5-HT1A receptors*, Neuroreport 2019, 30:1316-1322

(52) K. Hernandez-Vidales, M. Miranda-Morales, **M. Atzori,** F.J. Gonzalez-Contreras, E. Guevara-Codina. *Low-cost embedded system for optical imaging of intrinsic signals*, Revista Mexicana de Física 2019, 65:651-657

(51) A. Loyola-Leyva, J.P. Loyola-Rodríguez, Y. Terán Figueroa, F.J. González, **M. Atzori**, S. Barquera Cervera *Altered erythrocyte morphology in Mexican adults with prediabetes and type 2 diabetes mellitus evaluated by scanning electron microscope.* Microscopy 2019, 1-10. doi: 10.1093/jmicro/dfz011.

(50) L.A. Ramirez, E.A. Perez, F. Garcia-Oscos, H. Salgado, **M. Atzori**, J.C. Pineda *The new theory of depression: Mood regulation between CNS and immune system, a role for serotonin/kinurenin and the HPA axis* Biomedica 2018: 38, 437-450. doi: 0.7705/biomedica.v38i3.3688. **ISSN:** 0120-4157 | **ISSN-e:** 2590-7379

(49) A. Loyola-Leyva, J.P. Loyola-Rodriguez, **M. Atzori,** F.J. Gonzalez *Morphological changes in erythrocytes of people with type 2 diabetes mellitus evaluated with atomic force microscopy: A brief review* Micron 2018, 2018 Feb;105:11-17. doi: 10.1016/j.micron.2017.11.001. Epub 2017 Nov 10. ISSN: 0968-4328

(48) R. Cuevas-Olguin, E. Esquivel-Rendon, J. Vargas-Mireles, F. Garcias-Oscos, M. Miranda-Morales, H. Salgado, S. Rose-John, **M. Atzori** *Interleukin 6 trans-signaling regulates basal synaptic transmission and sensitivity to pentylenetetrazole-induced seizures in mice* Synapse 2017, Sep; 71(9). doi: 10.1002/syn.21984. Epub 2017 May 13.

(47) R. Cuevas-Olguin, S. Roychowdhury, A. Banerjee, F. Garcia-Oscos, E. Esquivel-Rendon, M.E. Bringas, M.P. Kilgard, F. Flores, **M. Atzori** *Cerebrolysin prevents deficits in social behavior, repetitive conduct, and synaptic inhibition in a rat model of autism*
J. Neurosci. Res. 2017, Jun 13. doi: 10.1002/jnr.24072.

(46) **M. Atzori** et al. *Locus Ceruleus Norepinephrine release: a Central Regulator of CNS Spatio-Temporal Activation?*
Frontiers in Synaptic Neuroscience, 2016 Aug 26;8:25.

(45) **M. Atzori**, F. Garcia-Oscos. H. Arias *α_7 Nicotinic Acetylcholine Receptor-mediated Anti-inflammatory Actions Modulate Brain Functions*
Neurotransmitter 2016; 3: e1303. doi: 10.14800/nt.1303

(44) H.Salgado Burgos, M. Treviño-Villegas, **M. Atzori** *Layer- and area-specific actions of norepinephrine on cortical synaptic transmission*
Brain Research, 2016, 1641, 163-76.

(43) **M. Atzori**, M. Mejia-Torres *Nicotine for psychiatric disease: from nuisance to novel treatment?*
Future Medicinal Chemistry 2015, 7(10), 1217-20

(42) F. Garcia-Oscos, D. Peña, M. Housini, D. Cheng, D. Lopez, R. Cuevas Olguin, N. Saderi, R. Salgado Delgado, L. Galindo Charles, H. Salgado, S. Rose-John, G. Flores, M. Kilgard, **M. Atzori** *Activation of the anti-inflammatory reflex blocks LPS-induced decrease in synaptic inhibition in the temporal cortex of the rat*
J. of Neurosci. Res. 2015, 93:859-865

(41) F. García-Oscos, O. Torres-Ramírez, L. Dinh, L. Galindo-Charles, J.C. Pineda, **M. Atzori**, H. Salgado
Activation of 5-HT receptors inhibits GABAergic transmission by pre-and post-synaptic mechanisms in layer II/III of the juvenile rat auditory cortex
Synapse 2015, Mar;69(3):115-27. doi: 10.1002/syn.21794. Epub 2015 Jan 8.

(40) F. Garcia-Oscos, D. Peña, M. Housini, D. Cheng, D. Lopez, M.S. Borland, R. Salgado, H. Salgado, S. D'Mello, M.P. Kilgard, S. Rose-John, **M. Atzori**
Vagal nerve stimulation blocks interleukin 6-dependent synaptic hyperexcitability induced by lipopolysaccharide-induced acute stress in the rodent prefrontal cortex.
Brain Behav Immun. 2015 Jan; 43:149-58. doi: 10.1016/j.bbi.2014.07.020.

(39) S. Roychowdhury, A.N. Zwierzchowski, F. Garcia-Oscos, R. Cuevas Olguin, R. Salgado Delgado, **M. Atzori**
Layer- and area-specificity of the adrenergic modulation of synaptic transmission in the rat neocortex
Neurochem. Res. 2014, 39 (Dec): 2377-84

(38) N. Sosa-Díaz, M.E. Bringas, **M. Atzori**, G. Flores

Prefrontal cortex, hippocampus, and basolateral amygdala plasticity in a rat model of autism spectrum
Synapse. 2014 Oct;68(10):468-73. doi: 10.1002/syn.21759. Epub 2014 Jul 9.

(37) G**.** Flores**, M. Atzori**
The potential of Cerebrolysin in the treatment of Schizophrenia. Pharmacology and Pharmacy, 2014, 5: 691-704.

(36) M.E. Bringas, F.N. Carvajal-Flores, T.A. López-Ramírez, **M. Atzori**, G. Flores
Rearrangement of the dendritic morphology in limbic regions and altered exploratory behavior in a rat model of autism spectrum disorder.
Neuroscience. 2013 Jun 25;241:170-87

(35) A. Banerjee, F. García-Oscos, S. Roychowdhury, L.C. Galindo, S. Hall, M. Kilgard, **M. Atzori**
Impairment of cortical GABAergic synaptic transmission in an environmental rat model of autism
Int. J. Neuropsychopharmacology, 2013 Jul;16(6):1309-18

(34) S. Roychowdhury, Z. Peña-Contreras, J. Tam, A. Yadlapalli, L. Dinh, J.A. Nichols, D. Basu, **M. Atzori**
α_2- and β-adrenoceptors involvement in nortriptyline modulation of auditory sustained attention and impulsivity
Psychopharmacol., 2013 Jul: 16(6):1309-18

(33) **M. Atzori**, F. Garcia-Oscos, J.A. Mendez
Role of Interleukin 6 in the etiology of hyper-excitable neuropsychiatric conditions: experimental evidence and therapeutical implications
Future Medicinal Chemistry, 2012 Nov;4(17):2177-92

(32) D.C. Brown II, M.S. Co, R.C. Wolff, **M. Atzori**
α Adenergic receptors in auditory cue detection: α2 receptor blockade suppresses false alarm responding in the rat
Neuropharmacol., 2012 62: 2178-83

(31) F. Garcia-Oscos, H. Salgado, S. Hall, F. Thomas, G.E. Farmer, J. Bermeo, L. C. Galindo, R.D. Ramirez, S. D'Mello, S. Rose-John, **M. Atzori**
The stress-induced cytokine interleukin-6 decreases the inhibition/excitation ratio in the rat temporal cortex via trans-signaling
Biol. Psych. 2012, 71: 574-82

(30) H. Salgado, L. Dinh, F. Garcia-Oscos, **M. Atzori**
Synaptic locus of action of norepinephrine in auditory cortex GABA synapses.
Synapse, 2012, 66:20-8

(29) J. Nichols, A.R. Nichols, S. Smirnakis, N. Engineer, M. Kilgard, **M. Atzori**
Vagus nerve stimulation modulates cortical synchrony and excitability through the activation of muscarinic receptors
Neuroscience, 2011, 25:189-207

(28) H. Salgado, F. Garcia-Oscos, L. Dinh and **M. Atzori**
Dynamic modulation of short-term synaptic plasticity in the auditory cortex: the role of norepinephrine.
Hearing Res. 2011, 271: 26-36

(27) H. Salgado, F. Garcia-Oscos, A. Patel, L. Martinolich, J.A. Nichols, L. Dinh, K.Y. Tseng, S. Roychowdhury, **M. Atzori**
Layer specific Norepinephrine modulation of inhibition in cortical layer II/III
Cerebral Cortex, 2011, 21:212-21

(26) C.D. Brown II, J.A. Nichols, F. Thomas, L. Dinh, **M. Atzori**
Nicotinic modulation of Auditory Attentional Shift in the Rat
Brain Research, 2010, 210:273-9

(25) M. Bose, P. Munoz, S. Roychowdhury, J. Nichols, V.P. Jakkamsetti, B. Porter, R. Byrapureddy, H. Salgado, M.P. Kilgard, F. Aboitiz, A. Dagnino, **M. Atzori**
Effect of the environment on the dendritic morphology of the rat auditory cortex
Synapse, 2010, 64: 97-110.

(24) A. Dagnino-Subiabre, P. Muñoz-Llancao, G. Terreros, U. Wyneken, G. Díaz-Véliz, B. Porter, M. Kilgard, **M. Atzori**, F. Aboitiz
Chronic Stress Induces Dendritic Atrophy in the Rat Medial Geniculate Nucleus: Effects on Auditory Conditioning
Behavioural Brain Research, 2009, 203, 88-96.

(23) L. Dinh, T. Nguyen, H. Salgado, **M. Atzori**
Norepinephrine homogeneously inhibits AMPAR-mediated currents in all layers of the temporal cortex of the rat.
Neurochem. Res. 2009 34:1896-906.

(22) J. Flores-Hernandez, H. Salgado, M. Bose, T. Avila-Ruiz, T. Hernandez-Flores, V. De la Rosa, O. Torres-Ramirez, **M. Atzori**
Cholinergic direct block of N-methyl-D aspartate receptor-mediated currents in the rat auditory cortex.
Synapse, 2009, 63, 308-18.

(21) R.D. Paz, S. Tardito, **M. Atzori**, K.Y. Tseng
Glutamatergic Dysfunction in schizophrenia: from basic neuroscience to clinical psychopharmacology
Eur. Neuropsychopharm. 2008, 18, 773-86.

(20) H. Salgado, T. Bellay, J. A. Nichols, M. Bose, L. Martinolich, L. Perrotti, and **M. Atzori** *M_2 muscarinic receptors decrease the release of GABA in the auditory cortex by modulating Ca^{2+} channels through activation of PI_3K/PKC*
J. Neurophysiol. 2007, 98: 952-65.

(19) J. Nichols, V. Jakkamsetti, H. Salgado, L. Dinh, M. Kilgard, **M. Atzori**
Environmental enrichment selectively increases excitatory synaptic transmission to layer 2/3 in the temporal cortex

Neuroscience, 2007, 145, 832-40.

(18) F. Dufour, Q. Liu, **M. Atzori**
Effects of cholesterol-rich diet on the rat on spatial memory
Brain Res. 2006, 1103, 88-98.

(17) C. Cui, M. Xu, **M. Atzori**
Voltage-dependent Block of NMDA Receptors by Dopamine D1 Receptor Ligands
Molecular Pharm. 2006, 70, 1761-70.

(16) **M. Atzori**, P.O. Kanold, J.C. Pineda and J. Flores-Hernandez, R. Paz
Dopamine prevents muscarinic-induced decrease of glutamate release in the auditory cortex
Neuroscience, 2005, 134, 1153-65.

(15) **M. Atzori**, J.F. Hernandez, J.C. Pineda
Interlaminar differences of activation threshold in the aud. cortex of the rat.
Hearing Res. 2004, 189, 101-6.

(14) **M. Atzori**, P.O. Kanold, J.C. Pineda and J. Flores-Hernandez
Dopamine-acetylcholine interactions in the modulation of glutamate release
NY Acad. Sci. 2003, 1003, 346-8.

(13) M. Grimaldi, **M. Atzori**, P. Ray, and D. Alkon
Mobilization of Calcium from Intracellular Stores, Potentiation of *Neurotransmitter-Induced Calcium Transients, and Capacitative Calcium entry by aminopyridine*
J. Neurosci. 2001, 21 3135-43

(12) **M. Atzori**, S. Lei, D. Evans, P. Kanold, E. Tansey, O. Intyre and C.J. McBain
Differential synaptic processing separates stationary from transient inputs to the auditory cortex
Nature Neurosci. 2001, 12:1230-7

(11) **M. Atzori**, D. Lau, E. Tansey, A. Chow, A. Ozaita, B. Rudy and C.J. McBain
H_2 histamine receptor phosphorylation of Kv3.2 modulates interneuron fast spiking
Nature Neurosci. 2000, 3:791-8

(10) F. Strata, **M. Atzori**, M. Molnar, G. Ugolini and E. Cherubini
Nitric Oxide Sensitive Depolarization-Induced Hyperpolarization: a possible role for gap junctions during development
Eur. J. Neurosci. 1998, 10:397-403

(9) G.I. Frolenkov, **M. Atzori**, F. Kalinec, F. Mammano and B. Kachar
The membrane-based mechanism of cell motility in cochlear outer hair cells
Mol. Biol. Cell, 1998, 9:1961-8

(8) F.Strata, **M. Atzori**, M. Molnar, G. Ugolini, F. Tempia and E. Cherubini

A pacemaker current in dye-coupled hilar interneurons contributes to the generation of Giant GABAergic Potentials in developing hippocampus.
J. Neuroscience, 1997, 17:1435-46

(7) **M. Atzori**
"Pyramidal cells and Stratum Lacunosum-Moleculare interneurons in the CA1hippocampal region share a GABAergic spontaneous input"
Hippocampus, 1996, 6:72-78

(6) **M. Atzori** and A. Nistri
"Effects of Thyrotropin Releasing Hormone on the GABAergic synaptic transmission of the rat hippocampus"
European J. Neuroscience, 1996, 8:1299-1305

(5) J. Györi, **M. Atzori** and E. Cherubini
Post synaptic induction of mossy fibre Long Term Depression in developing rat hippocampus
Neuroreport, 1996, 7:1660-4

(4) **M. Atzori** and A. Nistri
"Non-monotonic decay of excitatory synaptic transmission in the frog optic tectum following repetitive stimulation of the optic nerve in vitro"
Experimental Brain Research, 1994, 102:287-296

(3) **M. Atzori**
"Cl^- transporter block enhances GABAergic spontaneous activity in rat hippocampal CA3 cells"
NeuroReport, 1994, 5:2509-2512

(2) R.Toffanin, B.J. Kvam, A. Flaibani, **M. Atzori**, F. Biviano and S. Paoletti
"N.M.R. studies of oligosaccharides derived from hyaluronate: complete assignement of ^1H and ^{13}C NMR spectra of di- and tetrasaccharides, and study of chemical shifts of oligosaccharides of increasing degree of polymerisation"
Carbohydrate Research, 1993, 245:113-128

(1) B.J. Kvam, **M. Atzori**, R. Toffanin, S. Paoletti and F. Biviano
"^1H- and ^{13}C-NMR studies of solutions of hyaluronic acid esters and salts in DMSO: comparison of hydrogen bond patterns and conformational behavior"
Carbohydrate Research, 1992, 230:1-13

Books edited

K. Tseng and **M. Atzori** editors
Monoaminergic Modulation of Cortical Excitability
ed. Springer; **ISBN-10: 0387722548; ISBN-13: 978-0387722542**

Book chapters

M. Atzori and R. Paz

Interplay between Dopamine and Acetylcholine in the Modulation of Attention
in "Monoaminergic Modulation of Cortical Excitability"
ed. Springer; **ISBN-10: 0387722548; ISBN-13: 978-0387722542**

M. Atzori, H Salgado and K.Y. Tseng
Regulation of Cortical Functions by the Central Noradrenergic System
in "Monoaminergic Modulation of Cortical Excitability"
ed. Springer; **ISBN-10: 0387722548; ISBN-13: 978-0387722542**

J.A. Nichols, M. Bose, V.P. Jakkamsetti, M. Kilgard and **M. Atzori**
Auditory environment-induced brain plasticity
in "Limbic system and stress"
ed. F. Aboitiz and A. Dagnino
Research Signpost/Transworld Research Network, **ISBN 978-81-0202-2**

International Symposium organizer	UTD 2012 Neuroscience Research Conference Corticostriatal Circuits in Neuropsychiatric Disorders School for Behavioral and Brain Sciences Kusch Auditorium, FN 2.102 April 13, 2012

Awards and Grants obtained

Post-doctoral awards

1996 J. William Fulbright scholarship by USIA/CIES: 2,000.00 USD

1996/1997 Post-doctoral fellowship by FY96-67 University of Tenneessee Neuroscience Center: 15,000.00 USD

1999 NIH FARE -- The Fellows Award for Research Excellence: 1,000.00 USD

Research awards, while at the University of Texas at Dallas

2003 National Alliance for Research in Schizophrenia and Depression:
Young Investigator Award, First installment: 30,000.00 USD
Role of Dopamine in the Sensitization of Inhibitory Response in the Temporal Cortex

2004 National Institute of Health, 5R01DC005986-01:
Acetylcholine and dopamine modulation in auditory cortex, 224,154.00 USD

2004 National Alliance for Research in Schizophrenia and Depression: Young Investigator Award, Second installment: 30,000.00 USD
Role of Dopamine in the Sensitization of Inhibitory Response in the Temporal Cortex, Second installment

2005 National Institute of Health, 5R01DC005986-02:

Acetylcholine and dopamine modulation in auditory cortex: 298,240.00 USD

2006 American Audiology Association: 5,000.00 USD
Physiological and Anatomical characterization of the Tectal Commissural Column (mentor M. Atzori, PI student Justin Nichols)

2006 National Institute of Health, 5R01DC005986-03: 297,595.00 USD
Acetylcholine and dopamine modulation in auditory cortex

2007 National Institute of Health, 5R01DC005986-04: 383.867.00 USD
Acetylcholine and dopamine modulation in auditory cortex

2008 National Institute of Health, 5R01DC005986-04 extension
Acetylcholine and dopamine modulation in auditory cortex
end august 31, 2009

2010 University of Texas at Dallas: 10,000.00 USD
Brain and Behavioral Sciences Research Development Award
Cerebrolysin in the treatment of autism spectrum disorders

2011 University of Texas at Dallas: 12,000.00 USD
Brain and Behavioral Sciences Research Development Award
Synaptic effects of interleukin-6

Research awards received while at the Univ. Autonoma de San Luis Potosi

2013 Fondos Fomento A la Investigacion (FAI), 50,000 MXN
Effects of tricyclic antidepressant on attention

2013-2014 Fondos PROMEP, 567,637.00 MXN
Role of Glycogen Synthase Kinase (GSK) on Bipolar Disease

2015-2016 Fondos Ciencia Basica CONACyT CB -2013-01 221653: 650,000 MNX
Adrenergic modulation and role of neocortical inhibitory system on an animal modelo of impulsive psychotic behavior

2015-2016 Fondos Concurrentes UASLP: 70,000 MNX

2016-2017 Fondos Ciencia Basica CONACyT CB -2013-02 221653: 457,000 MN
Adrenergic modulation and role of neocortical inhibitory system on an animal modelo of impulsive psychotic behavior

2016-2017 Fondos Concurrentes UASLP, (50,000 MNX)

2017-2018 Fondos Ciencia Basica CONACyT CB -2013-02 221653: 312,000 MNX
Adrenergic modulation and role of neocortical inhibitory system on an animal modelo of impulsive psychotic behavior

2017-2018 Fondos Concurrentes UASLP, (40,000 MNX)

Invited talks

2001

January
Howard University, Washington D.C., Dept. of Physiology.
Histamine modulation in the hippocampus.
Host: Prof: Cloyd Trouth

February
Universidad Nacional Autonoma de Mexico, Unidad de Ixtacala. Mexico.
Histamine-induced modulation Kv3.2 potassium channels in GABAergic hippocampal neurons.
Host: Prof. Jaime Barral.

April
Centro de Investigaciones Regionales Hideyo Noguchi, Merida, Yucatan, Mexico
GABAergic regulation of hippocampal function
Host: Prof. Juan Carlos Pineda

2002

March
University of Maryland at College Park, Center for Acoustic and Auditory Research, Electrical and Computer Engineering Dept., Inst. for System Res.
Synaptic processing of fast and slow transients in the Auditory System.
Host: Prof. Host: Shihab Shamma

October
University of Maryland at Baltimore, Dept. of Neurosciences
Dynamic properties of auditory cortical synapses
Host: Prof. Didier Depireux

2003

October
Johns Hopkins University, The David Bodian seminar in Neuroscience.
Fast and slow excitatory synapses in the auditory cortex.
Host: Dr. Alfredo Kirkwood.

2004

January
Univ. Autonoma de Mexico, Inst. of Physiology. Dep. Seminar
Processing of fast and slow sensory transients by glutamatergic synapses
Host: Dr. Jose' Bargas.

February
Benemerita Universidad Autonoma de Puebla, Inst. de Fisiologia.
Dopamine Acetylcholine interactions in the neocortex
Host: Dr. Jorge Flores.

March
University of Texas at Dallas, Institute of Brain and Behavior.
Cross-talk between dopamine and acetylcholine in glutamatergic transmission
Host: Dr. Michael Kilgard.

2005

November
Univ. de los Andes, Santiago, Chile, Escuelas de Psicologia.
Glutamatergic mechanisms of psychosis
Host: Dr. Rodrigo Paz

Instituto Psiquiatrico Horwitz Barak, Santiago, Chile.
Dopamine-acetylcholine interactions as potential psychotogenic mechanism.
Host Dr. Rodrigo Paz

2006

January
Winter Conference on Brain Research, Steamboat Springs, Colorado
The complexity of monoaminergic cortical modulation.
Panel organizer

September
Neurobiology Seminar Series, UTSA, San Antonio, Texas
Synaptic improvement following environmental enrichment.
Host: Dr. Charles Wilson

October
Prog. in Neurosci. Seminar Series, Indiana University, Bloomington, Indiana
Distress vs. environmental enrichment as opposite poles for synaptic plasticity.
Host: Dr. Laura Hurley

2007

April
Seminar series at the Southern Research Institute, Birmingham, AL
Modulation of NMDA receptors by cholinergic ligands.
Host: Dr. Maurizio Grimaldi

October

IBRO meeting, Merida, Yucatan, Mexico
Role of the GABAergic system in brain synchronization
Host: Dr. Juan Carlos Pineda Cortez

November
SfN 35th Annual Meeting, San Diego, CA
The NMDA receptor as target of cholinergic modulation
Slide session on excitatory aminoacid receptor modulation

2008

February
ARO 31st Midwinter meeting, Phoenix, AZ
Noradrenergic modulation of GABAergic function
Slide session

2009

May
Univ. Texas Southwestern, Psychiatry seminar series, Dallas, TX
Layer-specific noradrenergic cortical modulation
Host: Dr. Ege Kavalali

June
BUAP, Institue of Physiology Seminar, Puebla, Mexico
Nicotine modulation of attention
Host: Prof. Jorge Flores-Hernandez

August
3rd Int. l Conference on the Auditory Cortex, Magdeburg, Ge.
Noradrenergic mechanisms of auditory cortical modulation
Host: Dr. Eike Budinger

2012

March
Semana del Cerebro, Colima, Mexico
From Inflammation to Depression: The Neuroimmune Link.
Host: Dr. Humberto Cruzblanca

2013

October
XVIII Reunion de la rama de Bioenergetica y Biomembranas, Hotel Hacienda Jurica, Queretaro, Mexico.
Interleukin 6 modulation of GABAergic transmission
Slide session

2015

April
Seminario del Instituto de Neurobiologia, Queretaro.
The role of norepinephrine in cortical activation.
Host: Dr. Fernando Peña

Seminario del Inst. de Neurociencias, Universidad de Guadalajara, Guadalajara, Jalisco, Mexico
Interleukin 6 mediates stress-induced modulation of inhibitory synapses.
Host: Dr. Mario Treviño Villegas

2016

August
Seminario de Neurociencias, Universidad Autonoma de Yucatan Merida, Yucatan, Mexico
Stress and Norepinephrine
Host: Dr. Humberto Salgado

2017

September
Night for tank thinkers/PRISMATIC, IPICyT, San Luis Potosi, Mexico
Inflammation and Mood disorders.
Host: Dr. Leonardo Isaac Pereyra Bistrain

2018

February
Weekly research seminar, Benemerita Universidad Autonoma de Puebla, BUAP, Puebla, Mexico
Interleukin-6 dependent Prefrontal Cortex synaptic plasticity induced by Social Defeat
Host: Dr. Gonzalo Flores

October
Conferencia magistral, Universidad Pedagogica Nacional, San Luis Potosi, SLP, Mexico
Consciousness: location and manipulation
Host: Dr. Raul Gamboa Lopez

November
Weekly seminar: Universidad del Valle de Mexico, San Luis Potosi, SLP
Music, abuse substances and mental illness
Host: Dr. Diana Alvarado

2019

April
Invited talk: University of California at Berkely, Berkely, CA
Neuroimmune interactions in neocortical synaptic plasticity

Host: Dr. Daniel Feldman

October
Symposium: Neuroscience, Consciousness, and Artificial Intelligence
The role of acetylcholine in the generation of the states of consciousness.
Institute Hideyo Noguchi, Yucatan Autonomous University, Merida, Yucatan,
Host: Dr. Juan Carlos Pineda

Abstract presentations:

(1) Bon L., **Atzori M.** and Lucchetti C.:
Joint meeting S.I.B.S.-S.I.F.-S.I.N.U.
Alghero September 26-28 1988.
The effect of attention on features of eye movement of the monkey

(2) Pinto I., Bravar D., **Atzori M.** and Giribona P.:
Eighth annual meeting of the society of Magnetic Resonance in Medicine
Amsterdam November 12-18 1989
Assessment of a protocol for M.R. scanners performance measurements

(3) **Atzori M.** Kvam J.B., Toffanin R., Paoletti S.
First Joint Meeting
Società Chimica Italiana:
Gruppo Interdivisionale dei Carboidrati
Società Italiana di Biochimica: Gruppo dei Glicoconiugati
Alghero May 27-28 1991
Behaviour of Hyaluronates: a comparison of hydrogen bond pattern and Conformation

(4) **Atzori M.**, Toffanin R., Kvam J.B. and Paoletti S.:
International Union of Pure and Applied Chemistry
Slovak Academy of Sciences
International Conference on Polymers
Bratislava High Tatras Czeco-Slovakia, June 10-14 1991
^{1}H and ^{13}C study of solution properties of hyaluronan derivatives

(5) Toffanin R., **Atzori M.**, Kvam J.B., Flaibani A. and Paoletti S.:
AIRM-GIRM-GDRM Congresso di Risonanza Magnetica
C.N.R. Area di Ricerca
Milano October 23-25 1991
Study on Oligosaccarides of Hyaluronic Acid

(6) Toffanin R., Kvam J.B., **Atzori M.**, Cescutti P. and Paoletti S.:
AIRM-GIRM-GDRM Congresso di Risonanza Magnetica
C.N.R. Area di Ricerca
Milano October 23-25 1991
N.M.R. spectra of the trisaccaride by Smith degradation from the capsular polysaccaride extracted from Klebsiella 40

(7) **Atzori M.** and Nistri A.:
XVII Conférence en Neurobiologie de Gif
Mechanism and Regulation of Neurotransmitter Release
Gif-sur-Yvette December 3-4 1992
An unusual feature in the fatigue-dependent process of synaptic transmission in the frog optic tectum

(8) **Atzori M.** and Nistri A.:
Physiological Society Meeting

Southampton September 27-29 1993
Journal of Physiology 473,168P 1993
Synaptic fatigue in the Rana temporaria optic tectum in vitro following repetitive stimulation of the optic nerve

(9) **Atzori M.** and Nistri A.
Life Science Meeting 1995
Physiological and Biophysical Societies of Slovenia
Gozd Martuliek September 23-28 1995
Modulation of GABA transmission in the rat hippocampus by the neuropeptide TRH

(10) **Atzori M.**, Nistri A., Sciancalepore M. and Stocca G.
25th Annual Meeting
Society for Neuroscience
S. Diego U.S.A. November 11-16 1995
Effects of TRH on GABAergic synaptic transmission of the rat hippocampus

(11) Strata F., **Atzori M.** and Molnar M.
25th Annual Meeting
Society for Neuroscience
S. Diego U.S.A. November 11-16 1995
Nitric Oxide "paces" giant GABAergic ativity in the developing rat hippocampus through a transiently expressed neuronal structure

(12) Strata F., **Atzori M.** and Cherubini E.
26th Annual Meeting
Society for Neuroscience
Washington DC U.S.A. November 16-21 1996
Developmental regulation of intrinsic membrane oscillation in rat CA3 hippocampal neurons

(13) **Atzori, M.** and Kachar B.
22nd ARO Annual Meeting
Association for Research in Otorinolaryngology
St. Petersburg, FL U.S.A. February 1998
Insensitivity of the Outer Hair Cell motor to voltage-gated channel blockers

(14) **Atzori, M.** and Tansey E.
23rd ARO Annual Meeting
Association for Research in Otorinolaryngolgy
St. Petersburg, FL U.S.A. February 1999
Local Circuitry in Auditory Cortex studied by Neuron-Pair Patch-Clamp Recording

(15) **Atzori M.**, E. Phillips-Tansey, D. Lau, A. Ozaita, A. Chow, B. Rudy and C.J. McBain
27th Annual Meeting, Society for Neuroscience
Miami, FL, U.S.A., October 1999.
PKA phosphorylation of Kv3.2 modulates high frequency firing in hippocampal interneurons.

(16) Grimaldi M., **Atzori M.**, Ray P. and Alkon D.
NIH Research Festival
October, 1999
4-Aminopyridine activates phospholipase C and enhances calcium mobilization in cortical type I rat astrocytes: effects unrelated to K+ channel blockade.

(17) **Atzori M.**, P. Kanold, E. Phillips-Tansey, C.J. McBain
24th ARO Annual Meeting
Association for Research in Otolaryngology
St. Petersburg, FL U.S.A. February 2000
Short term synaptic plasticity in pairs of connected cells of the auditory cortex.

(18) C.J. McBain, P.Kanold, E. Phillips-Tansey and **Atzori M.**
28th Annual Meeting, Society for Neuroscience
New Orleans, LA, U.S.A., November 2000.

Short-term synaptic plasticity in connected pairs of auditory cortex neurons.

(19) **Atzori M.**, E. Phillips-Tansey, D. Lau, A. Ozaita, A. Chow, B. Rudy and C.J.McBain
28th Annual Meeting, Society for Neuroscience, New Orleans, LA, U.S.A., November 2000.
Histamine modulates high frequency firing in hippocampal interneurons through PKA phosphorylation of Kv3.2.

(20) **Atzori M.**, P. Kanold, E. Phillips-Tansey, C.J. McBain
25th ARO Annual Meeting, Association for Research in Otolaryngology
St. Petersburg, FL U.S.A. February 2001
High-p and low-p synapses connect pyramidal neurons in layer II/III of the mouse auditory cortex

(21) A. Huttner, **Atzori M.**, C.J.McBain and R.D.G. McKay
29th Annual Meeting, Society for Neuroscience
San Diego, CA, U.S.A., November 2001.
Transplanted neural precursor cells form functionally active circuits

(22) **Atzori M.**
25th ARO Annual Meeting
Association for Research in Otolaryngology
St. Petersburg, FL U.S.A. January 2002
Effects of dopamine on the glutamatergic transmission in the auditory cortex

(23) **Atzori M.**, P.O. Kanold
Association for Research in Otolaryngology 26th Annual Meeting
Daytona Beach, FL U.S.A. February 2003
Dopamine Blocks Acetylcholine-induced Reduction of Glutamate Currents in the Auditory Cortex

(24) **Atzori M.**, P.O. Kanold, J.Flores-Hernandez and J.C. Pineda
New York Academy of Science
Meeting on Glutamate and Disorders of Cognition and Motivation
New Haven, CT U.S.A. April 2003
Dopamine prevents the reduction of glutamatergic synaptic currents induced by acetylcholine

(25) **Atzori M.**, R. Paz
31st Annual Meeting, Society for Neuroscience
New Orleans, LA, U.S.A., November 2003.
Blockage by dopamine of the muscarinic depression of glutamate release: a psychotigenic mechanism?

(26) **Atzori M.**, J. Flores- Hernandez, J.C. Pineda
27th ARO Annual Meeting
Association for Research in Otolaryngology
Daytona Beach, FL U.S.A. February 2004
Interlaminar differences of spike activation threshold in the auditory cortex of the rat.

(27) Flores-Hernández J, Couto Roldán E, González Sánchez JC, García Moreno Elizondo G, Avila Ruíz T, **Atzori M**
17th Meeting of the Mexican Society of Physiological Sciences
Boca del Rio, Veracruz, Mexico, August 2004
Modulation of glutamatergic currents in dissociated cells of prefrontal cortex, temporal cortex and Nucleus Accumbens

(28) **Atzori M.**, Couto-Roldan E., Gonzales-Sanches J.C., Avila-Ruiz T., Flores-Hernandez J.
32nd Annual Meeting, Society for Neuroscience
San Diego, CA, U.S.A., October 2004
Fast modulation of NMDAR-mediated current by acetylcholine and dopamine

(29) Cui C. and **Atzori M.**
Gordon Conference on Excitatory Amino Acid and Brain Function
Assois, France, September 2005
Voltage-dependent block of NMDA receptor by dopamine D1 receptor ligands

(30) Mancera B.D., Flores-Hernandez J., **Atzori M.**, Ponce-Perez L., Martinez-Rodriguez M.G., Monjaraz E.
32nd Annual Meeting, Society for Neuroscience, San Diego, CA, U.S.A., October 2004
Long-term treatment with GHRP-6 enhances functional expression of sodium channels in the tumor cell line GC

(31) Bellay T., Nichols J., Byrapureddy R, Gibbons B, **Atzori M**
33rd Annual Meeting, Society for Neuroscience
Washington, DC, U.S.A., November 2005
Dopamine impairs muscarinic depression of GABAergic currents in the temporal cortex

(32) J. Nichols, V. Jakkamsetti, R. Byrapureddy, B. Roof, T. Thompson, M. Kilgard, **M. Atzori**
Association for Research in Otolaryngology 29th Annual Meeting
Baltimore, February 2006
Effect of Enriched Environment on Synaptic Transmission in the Rat Auditory Cortex

(33) J. Nichols, V. Jakkamsetti, M. Kilgard, **M. Atzori**
34th Annual Meeting, Society for Neuroscience
Atlanta, GA, U.S.A., November 2006
Enriched Environment selectively increases excitatory synaptic transmission in layer 2/3 of the Rat Auditory Cortex

(34) Salgado H., Bellay T., Nichols J., Perrotti L., Martinolich L., **Atzori M**
34th Annual Meeting, Society for Neuroscience
Atlanta, GA, U.S.A., November 2006
Decrease of GABA release by Muscarinic M2 receptors and PIP2 kinase activation

(35) Flores Hernandez J., **Atzori M**
34th Annual Meeting, Society for Neuroscience
Atlanta, GA, U.S.A., November 2006
Second-messenger independet cholinergic block of NMDA currents

(36) J. Nichols, V. Jakkamsetti, M. Kilgard, **M. Atzori**
Neuroengineering Now, School of Engineering and Computer Science
Dallas, TX, U.S.A., June 2006
Quantitation of the effects of environmental enrichment on auditory cortex synapses

(37) L. Dinh, **M. Atzori**
Neuroengineering Now, School of Engineering and Computer Science
Dallas, TX, U.S.A., June 2006
Development of a three-cell compartment realistic cortical neuronal model

(38) J. Nichols, A. Patel, M. Bose, A. Viñuela, M.A. Aparicio, E. Saldaña, **M. Atzori**
Association for Research in Otolaryngology 30th Annual Meeting
Denver, February 2007
Firing pattern of neurons from the Tectal Longitudinal Column.

(39) H. Salgado, **M. Atzori**
International Congress on Schizophrenia Research, Colorado Springs, Colorado, March 2007
Dopaminergic-muscarinic interplay in the regulation of the temporal cortex excitation

(40) A. Patel, J. Nichols, M. Bose, A. Viñuela, M.A. Aparicio, E. Saldaña, **M. Atzori**
35th Annual Meeting, Society for Neuroscience
San Diego, CA, U.S.A., November 2007
Single-neuron membrane properties of the Tectal Longitudinal Column.

(41) R. Byrapureddy, M. Bose, **M. Atzori.**
35th Annual Meeting, Society for Neuroscience
San Diego, CA, U.S.A., November 2007
Dopamine blocks cholinergic increase in firing rate of neurons of the temporal cortex.

(42) M. Bose, V. Jakkamsetti, J. A. Nichols, R. Byrapureddy, M. Kilgard, **M. Atzori**
35th Annual Meeting, Society for Neuroscience
San Diego, CA, U.S.A., November 2007
Effect of sensory stimulation on the neuronal morphology in the auditory cortex

(43) J. Nichols, B. Roof, H. Salgado, V. Jakkamsetti, M. Kilgard, **M. Atzori**
31st Midwinter Association for Research in Otolaringology meeting
Phoenix, AZ, U.S.A., February 2008
Acetycholine increases time-locking without increasing S/N ratio in in vivo recordings from the primary auditory cortex of the anesthetized rat

(44) J.A. Nichols, A. Beckett, D. Brown, L. Dinh, and **M. Atzori**
36th Annual Meeting, Society for Neuroscience
Washington, D.C., U.S.A., November 2008
Saliency acutely modulates the inhibitory component of spectro-temporal receptive fields in the awake rat

(45) F. Garcia-Oscos, L.C. Galindo, H. Salgado, R. Ramirez, G. Flores, **M. Atzori**
Autism satellite of the 38th Annual Meeting, Society for Neuroscience
San Diego, CA, U.S.A., November 2010
Abnormal Adrenergic Modulation of GABAergic Synaptic Transmission in a Valproic Acid Animal Model of Autism

(46) A. Banerjee, M. Lee, S. Rao1, H. Salgado, **M. Atzori**
38th Annual Meeting, Society for Neuroscience
San Diego, CA, U.S.A., November 2010
Neurotensin decreases GABAergic currents in the temporal cortex of the rat

(47) S. Roychowdhury, L. Dinh, J. Nichols, J. Tam, A. Yadlapalli, **M. Atzori**
38th Annual Meeting, Society for Neuroscience
San Diego, CA, U.S.A., November 2010
Role of α_2 adrenoceptors in modulation of sustained auditory attention

(48) F. Garcia-Oscos, S. Hall, H. Salgado, **M. Atzori**
39th Annual Meeting, Society for Neuroscience
Washington, D.C., U.S.A., November 2011
Interleukin-6 induces acute internalization of $GABA_A$ receptors in the temporal cortex

(49) S. Roychowdhury, J. Tam, A. Uzoma, **M. Atzori**
39th Annual Meeting, Society for Neuroscience
Washington, D.C., U.S.A., November 2011
The noradrenergic system as a target in the pharmacological treatment of anxiety and social interactions deficits in a rat model of autism

(50) A. Banerjee, S. Roychowdhury, S. Rao, F. Garcia-Oscos, **M. Atzori**
39th Annual Meeting, Society for Neuroscience
Washington
D.C., U.S.A., November 2011
Cerebrolysin reverses deficits in behavior and synaptic inhibition in a rat model of autism

(51) M.E. Bringas-Tobón, F.N. Carbajal, T. Ramírez, **M. Atzori**, G. Flores
40th Annual Meeting, Society for Neuroscience
New Orleans, LA., U.S.A., November 2012
Prenatal exposure to valproic acid alter dendritic morphology in limbic regions

(52) S. Roychowdhury, J. Jackson**, M. Atzori**
40th Annual Meeting, Society for Neuroscience
New Orleans, LA., U.S.A., November 2012
Inter-regional differencesin adrenergic modulation of GABAA receptor-mediated synaptic currents

(53) **M. Atzori**, R. Cuevas Olguín, E. Esquivel Rendón, M. Mejía, A. Méndez Cabañas, F. García-Oscos
XVIII reunion de la rama de Bioenergetica y Biomembranas
Queretaro, QRO, Mexico, October 2013
Interleukin 6 decreases inhibitory GABAergic synaptic responses through a glycogen synthase kinase dependent mechanism in cerebral cortex of rodents

(54) A. Zwierzchowski, S. Roychowdhury, A. Banerjee, I. Ogobuiro, G. Flores, **M. Atzori**
41st Annual Meeting, Society for Neuroscience
San Diego, CA., U.S.A., November 2013
Cerebrolysin recovers behavioral and physiologic impairments in an environmental rat model of autism

(55) F. Garcia-Oscos, D. Peña, M. Houssini, D. Cheng, J. Norwood, H. Salgado, S. D'Mello, M.P. Kilgard, S. Rose-John, **M. Atzori**
41st Annual Meeting, Society for Neuroscience, San Diego, CA., U.S.A., November 2013
Vagal nerve stimulation prevents stress-induced interleukin-6-dependent cortical hyperexcitability

(56) M. E. Bringas, O. E. Aparicio, A. L. Sotomayor, S. R. Zamudio, F. De La Cruz, **M. Atzori**, G. Flores
41st Annual Meeting, Society for Neuroscience, San Diego, CA., U.S.A., November 2013
Cerebrolysin administration restores altered anatomy and behavior in rat model of autism

(57) F. Garcia-Oscos, R. Cuevas Olguin, R. Salgado Delgado, N. Saderi, M.P. Kilgard, S. Rose-John, **M. Atzori**
24th Pharmacological Conference: GABAergic signaling in health and disease
Satellite meeting to Society for Neuroscience, Pentagon City VA, USA, November 2014
Interleukin-6 as a mediator of stress-induced disruption of GABAergic synaptic activity: cellular mechanisms and possible treatments

(58) L.E. Azuara Alvarez, J.A. Hernández Maldonado, M.G. Mejía Torres, R.C. Salgado Delgado, S. Rose-John, **M. Atzori**
Reunion de la Sociedad Mexicana de Ciencias Fisiologicas
San Miguel de Allende, Guanajuato Septiembre 2015
El bloqueo del transignaling de interleucina-6 incrementa la susceptibilidad convulsiva en un modelo de epilepsia

(59) A.R. Cerda-Hernandez, N.Saderi, O. Ramirez-Plascencia, M.Atzori, R.C. Salgado-Delgado
Reunion de la Sociedad Mexicana de Ciencias Fisiologicas
San Miguel de Allende, Guanajuato Septiembre 2015
Participacion de la interleucina 6 en la regulación circadiana de eventos pro-inflamatorios

(60) R. Cuevas-Olguin, E. Esquivel-Rendon, H.R. Arias, **M. Atzori**
43rd Annual Meeting, Society for Neuroscience, Chicago, IL., U.S.A., October 2015
Nicotine reduces inhibitory synaptic currents in the prefrontal currents by activating α_7 receptors

(61) M.E. Bringas-Tobón, M.A.M. Rojas, O.E. Aparicio, C. Jarquin; F. de la Cruz, **M. Atzori**, G. Flores
43rd Annual Meeting, Society for Neuroscience, Chicago, IL., U.S.A., October 2015
Cerebrolysin administration remodeling neuronal morphology in limbic system regions and also modified the typical behavior in rat model of autism

(62) E. Esquivel Rendón, R Cuevas Olguín, L. Azuara, S. Rose-John, **M. Atzori**
Sociedad Mexicana de Bioquimica, XIX Reunión de la rama de Bioenergética y Biomembranas
San Miguel de Allende, Guanajuato , November 2015
El trans-signaling asociado a la interleucina 6 reduce la inhibición sináptica basal en la corteza prefrontal del ratón

(63) R. Cuevas Olguín, E. Esquivel Rendón, J. Vargas Mireles, H. Arias, **M. Atzori**
Sociedad Mexicana de Bioquimica, XIX Reunión de la rama de Bioenergética y Biomembranas
San Miguel de Allende, Guanajuato, November 2015
Modulación nicotínica de las corrientes sinápticas inhibitorias en la corteza medial prefrontal del ratón

(64) E. Esquivel-Rendón, J. Vargas-Mireles, F. Medina-García, A.L. Maldonado Hernández, P. Acosta-Mares, R. Cuevas-Olguín, I. González-Nateras, M. Miranda-Morales, S. Rose-John, **M. Atzori**
44th Annual Meeting, Society for Neuroscience, San Diego, CA., U.S.A., November 2016
Synaptic effects of social defeat stress: interleukin-6-dependent contribution

(65) I. Gonzalez-Nateras, F. Montero-Amézcua, R. Cuevas-Olguin, E. Esquivel-Rendon, J. Vargas-Mireles, S. Rose-John, **M. Atzori**
44th Annual Meeting, Society for Neuroscience, San Diego, CA., U.S.A., November 2016
Blockage of central interleukin 6 trans-signaling prevents predator stress in the mouse

(66) R. Cuevas-Olguín, E. Esquivel-Rendón, J. Vargas-Mireles, I. Gonzalez-Nateras, M. Miranda-Morales, H. Arias, **M. Atzori**
44th Annual Meeting, Society for Neuroscience, San Diego, CA., U.S.A., November 2016
Smoking-like nicotine levels increase excitatory synaptic response in the prefrontal cortex of the mouse

(67) E. Esquivel-Rendón, J. Vargas-Mireles, R. Cuevas-Olguín, P. Acosta-Mares, M. Miranda Morales, N. Saderi, R. Salgado-Delgado, S. Rose-John, **M. Atzori**
FALAN Buenos Aires, October 2016
Chronic stress alters synaptic excitatory-inhibitory ratio in an interleukin-6 trans-signaling-dependent manner in the prefrontal cortex of the mouse

(68) R. Cuevas-Olguin, T. Mares-Barbosa, M. Miranda-Morales, G. Garcia, E. Esquivel-Rendon, J. Vargas-Mireles, G., González, **M. Atzori**
II Congreso Nacional de la Rama de Neurobiología, Queretaro, October 2017
Development of a home-made system to quantify physical activity in an exp. rodent model.

(69) R. Velázquez Contreras, F. Vega, J. Vargas, G. Gonzalez, R. Cuevas Olguín, E. Esquivel Rendon, T. Mares-Barbosa, M. Miranda-Morales, G. García, C. Arenas-Huertero, N. Saderi, R. Salgado-Delgado, S. Rose-John, **M. Atzori**
II Congreso Nacional de la Rama de Neurobiología, Queretaro, October 2017
Exposure to continuous light elicits depression through an Interleukin-6 trans-signaling dependent mechanism in a murine model

(70) T.B. Mares Barbosa,R.Velazquez Contreras,R. Cuevas Olguín, G. González Martin, M. Miranda Morales, N. Saderi, C.G. Castillo Martin del Campo, S. Rose-John**, M. Atzori**.
Difusion líneas investigación carrera de Biologia, San Luis Potosi, Octubre de 2017
La interleucina 6 es necesaria para la inducción de la fatiga crónica en un modelo murino

(71) E. Esquivel-Rendón, J. Vargas-Mireles, P. Acosta Mares, R. Cuevas-Olguín, M. Miranda-Morales, S. Rose-John, **M. Atzori**

45th anual meeting, Society for Neuroscience, San Diego, November 2018
Social Defeat-induced Interleukin 6-dependent synaptic changes in the prefrontal cortex of the mouse

(72) J. Vargas-Mireles, E. Esquivel-Rendón, P. Acosta Mares, R. Cuevas-Olguín, M. Miranda-Morales, S. Rose-John, G. Rodríguez-Escobedo, **M. Atzori**
45th annual meeting, Society for Neuroscience, San Diego, November 2018
Social Defeat-induced Interleukin 6-dependent behavioral changes in C57BL/6 mouse

(73) M. Morquecho, R. Cuevas-Olguin, M. Miranda-Morales, R. Velazquez-Contreras, F. Vega, C. Arenas-Huertero, N. Saderi, R. Salgado-Delgado, S. Rose-John, **M. Atzori**
45th annual meeting, Society for Neuroscience, San Diego, November 2018
The proinflammatory cytokine interleukin 6 is involved in behavioral and synaptic changes induced by prolonged exposure to continuous illumination

(74) R. Cuevas-Olguín, T. Barbosa-Mares, R. Velázquez-Contreras, M. Miranda-Morales, S. Rose-John, **M. Atzori**
45th annual meeting, Society for Neuroscience, San Diego, November 2018
Interleukin 6 involvement in a rodent model of chronic fatigue syndrome

(75) S.I. Gonzalez-Cano, M.E. Bringas, I. Camacho-Abrego, **M. Atzori**, D. MacFabe, G. Flores
45th annual meeting, Society for Neuroscience, San Diego, November 2018
Behavioral and Morphological Changes in the Rat Limbic System in an Animal Model of Autism, Exposure to Propionic Acid in the Prenatal Age

(76) G. García, A. Monroy, G. Flores, M. Miranda-Morales, M. Atzori
46th annual meeting, Society for Neuroscience, Chicago, November 2019
Antidepressant effect of the abstract from B. Cordata in a chronic stress animal model

Committees and Evaluations (UTD):

UTD Medical and Dental School canditate committee (HPAC), evaluator
UTD Animal Control committee (IACUC), member
UTD Biosafety Committee, chairman
UTD Tenure Evaluation committee, member
UTD Neuroscience Faculty hiring committee, member
UASLP Preparation Admission exam, Facultad de Ciencias
UASLP Preparation programs, courses, revision curricula
UASLP Coordination postgraduate program (PCBB)

Honorary Positions and Continuing Education

2013-2016: Adjoint Professor, UT Dallas

February 2001- April 2001 Visiting Professor at the Institute of Physiology at the "Centro de Investigaciones Regionales Hideyo Noguchi" (UADY, Merida, Yucatan, Mexico)

March 1997 - February 1997: Visiting Fellow at the Institute of Cell Physiology, Universidad Nacional Autonoma de Mexico (UNAM, Mexico City, Mexico)

November 1991 - February 1990: Magnetic Resonance Consultant, Polybios, Trieste Science Park.

January 1990 - November 1989: Teacher of Informatics and Systems Theory at the Techn. Industrial Inst. (Oristano, Italy)

October 1989 - September-1989: Professor of Mathematics and Physics at the Scientific Lyceum (high-school, Oristano, Italy)

April 1988 – April 1989 Magnetic Resonance Imaging trainee at the Center of Evaluation of Biomedical Technologies (CEVAB) at Research Area, Trieste, Italy.

October 1987 - March 1988
Human Physiology Institute (University of Trieste)
Research Assistant

Spring 2010: Operating room intraoperative monitoring electrophysiologist (Monitoring Concepts, Dallas, TX)

Fall 2009 - Fall 2008: non-degree seeking biology student
Univ. Texas at Dallas. Courses taken (transcripts available for the following courses):

- Biochemistry I
- Biochemistry workshop I
- Biochemistry II
- Biochemistry workshop II
- Classic and Molecular Genetics
- Classic and Molecular Genetics Workshop
- Microbiology
- Immunobiology

Software programming experience:

- R
- SigmaPlot
- Pascal
- FORTRAN
- BASIC