Rev. 8/12/15

CURRICULUM VITAE

Name: Manuel F. Casanova

University of South Carolina: Professor of Biomedical Sciences, SMART State Endowed Chair in Translational Neurotherapeutics

Greenville Health System: Research Director of the Developmental Behavioral Pediatric Fellowship, SMART State Endowed Chair in Translational Neurotherapeutics

Office Address: Greenville Health System, 200 Patewood Drive, Developmental Behavioral Pediatrics, Suite A200, Greenville, SC 29615

Office Phone: (864)454-4595
Fax: None
Email: mcasanova@ghs.edu

PERSONAL:

Web page: http://minicolumn.org/people/casanova/

Blog: corticalchauvinism.com

EDUCATION:

1966-1970	Colegio San Ignacio de Loyola Santa Maria, Puerto Rico
1970-1973	University of Puerto Rico, Rio Piedras Rio Piedras, Puerto Rico B.S. magna cum laude (Chemistry)
1973-1975	University of Puerto Rico Graduate School (Chemistry) Rio Piedras, Puerto Rico (Graduate work in organic synthesis, natural compounds and spectroscopy)
1975-1979	University of Puerto Rico School of Medicine Rio Piedras, Puerto Rico Degree: M.D.

POSTGRADUATE TRAINING:

1979-1980	Medical Intern University District Hospital

Rio Piedras, Puerto Rico

1980-1982 Neurology Resident
University District Hospital
Rio Piedras, Puerto Rico

1982-1983 Chief Resident in Neurology
University District Hospital
Rio Piedras, Puerto Rico

1983-1984 Clinical Fellow
Neuropathology Laboratory
The Johns Hopkins University School of Medicine
Baltimore, Maryland

1984-1986 Research Fellow
Neuropathology Laboratory
The Johns Hopkins University School of Medicine
Baltimore, Maryland

1984-1986 Clinical Fellow
Department of Pathology
The Johns Hopkins Hospital
Baltimore, Maryland

PREVIOUS APPOINTMENTS:

1985 Consultant Neuropathologist
Maria Ruehsen M.D., Director
The North Charles Hospital
Baltimore, Maryland

1984-1986 Consultant Neuropathologist
Sinai Hospital
Baltimore, Maryland

1986-1988 Research Associate
Neuropathology Laboratory
Department of Pathology
The Johns Hopkins Hospital

1984-1990 Major
Medical Corps
U.S. Army Reserve
AMEDD Augmentation Detachment
(FAAD) and 100th Station Hospital

1986-1991	Neurologist, Neuropathologist Clinical Brain Disorders Branch St. Elizabeths Hospital, WAW Building National Institute of Mental Health
1987-1991	Director of the Brain Bank Unit Neuropathology Laboratory Clinical Brain Disorders Branch National Institute of Mental Health
1990-1991	Deputy Medical Examiner Washington, DC
1990-1991	Neuropathologist D.C. General Hospital Washington, D.C.
1990-1991	Professorial Lecturer Department of Forensic Science The Graduate School of Arts and Sciences The George Washington University Washington, D.C.
1990-1991	Lt. Commander U.S. Public Health Service
1992	Consultant in Psychiatry Headquarters Dwight David Eisenhower Army Medical Center Fort Gordon, Georgia
1989-1994	Scientific Expert Advisory Panel for the Yakovlev Collection Armed Forces Institute of Pathology
1991-1998	Psychiatry Service Staff Physician VA Hospital, Downtown Division Augusta, Georgia
1998-2000	Consultant for Eisai Inc.
2000	Consultant for Nycomed Amersham
1991-2003	Professor of Psychiatry and Neurology Consultant in Pathology Tenured 1994 Medical College of Georgia Augusta, Georgia

1995-2003	Research Resource Liaison Coordinator for the American Psychiatric Association Department of Psychiatry The Medical College of Georgia
2002-3	Professor of Anatomy and Cell Biology Medical College of Georgia Augusta, Georgia
2002-3	Professor School of Graduate Studies Medical College of Georgia Augusta, Georgia
2003	Affiliate Member Biomedical and Health Sciences Institute The University of Georgia
2003	Consultant for Aventis Pasteur Limited
2003	Gottfried and Gisela Kolb Endowed Chair in Psychiatry Department of Psychiatry University of Louisville
2003	Psychiatry Research Committee Department of Psychiatry University of Louisville
2003	Professor of Anatomical Sciences and Neurobiology University of Louisville
2004	Associate Clinical Associate Clinical Professor, Department of Neurology University of Louisville
2004	Senior Member of the Graduate Faculty University of Louisville
2004	Council of Healthcare Advisors for the Gerson Lehrman Group, New York, USA (www.glgroup.com)
2004	Consultant for the Centro Medico Virtual- Medvantis Medical Services, Barcelona, Spain (http://www.cmv.es)
2004	Acting Vice Chair for Research Department of Psychiatry University of Louisville

2004	Promotions and Tenure Committee Department of Psychiatry University of Louisville
2004	Executive Committee Department of Psychiatry University of Louisville
2005	Advisory Board Neuronetrix Incorporated
2005	Vice Chair for Research Department of Psychiatry University of Louisville
2005-	Board of Directors, Families for Effective Autism Treatment (FEAT) Louisville, Kentucky
2005-	Member, Birth Defects Center University of Louisville
2006-	Member, Merit Review Committee Department of Psychiatry, University of Louisville
2006-2008	Performance Criteria and Economic Criteria Welfare Committee, School of Medicine University of Louisville
2007-	Editorial Board, Autism Research
2008-	Research Committee (School of Medicine) University of Louisville
2009-	Associate Editor, Translational Neuroscience (Versita, Springer Verlag)
2009-	Editor, Autism Insights
2009-	Editor, Autism Research and Treatment
2009-2011	Review Board, Journal of Special Education and Rehabilitation
2009-2010	Review Editor, Frontiers in Alzheimer Research
2010-	Review Editor, Frontiers in Neurodegeneration
2011-	Editor, World Journal of Translational Medicine

2011	Associate Editor, Open Journal of Psychiatry (OJPsych)
2011	Editor, The Scientific World Journal, Psychiatry and Pathology Domains
2011	Editorial Board, Journal of Special Education and Rehabilitation
2011	Research Professor, associate appointment, Department of Bioengineering, University of Louisville
2012	Editorial Board, Neuroscience (IBRO)
2012	Editorial Board, Acta Neuropathologica
2012	Editorial Board, OA Autism (Editor-in-Chief, Founding Editor)
2012	Editorial Board, Journal of Life Medicine
2013	Review Editorial Board, Frontiers in Child Health and Human Development (a specialty publication from Frontiers in Pediatrics and Public Health) Richard Frye, Editor-in-Chief
2013	Editorial Board, BioMed Research International, Pathology subject area
2013	Editorial Board, Journal of Intellectual Disability- Diagnosis and Treatment (From Lifescience Global)
2013	Section Editor, OA Psychiatry (S. Hossein Fatemi, Editor-in-Chief)
2013	Editorial Board, Journal of Autism, Herbert Publications
2014	Editor (along with Michael Lebedev and Ioan Opris) for special issue in Frontiers in Systems Neuroscience entitled "Augmentation of Brain Function: Facts, Fiction and Controversy"
2014	Editor (along with Michael Lebedev and Ioan Opris) Frontiers Journal in Nano Neuroscience
2014	Associate Editor. History and Philosophy of Neuroscience. Frontiers in Human Neuroscience.
2015	Scientific Advisory Board, Autism Research Institute, San Diego CA
2015	Associate Editor, Frontiers in Neuroscience, Neural Technology

CURRENT APPOINTMENTS:

2015 SMART State Endowed Chair in Translational Neurotherapeutics
Greenville Health System, Greenville SC

2015 Professor in Biomedical Sciences
University of South Carolina School of Medicine Greenville Campus
South Carolina

LICENSURES:

Medical Licenses
Puerto Rico #6834
Maryland #D32729
Georgia #035834
Kentucky #39036

Chemist License No. 1596
issued by the Board of Examiners
of Chemists of Puerto Rico

Diplomat, National Board of Medical Examiners
Certificate No. 222222

1985 Diplomat, American Board of Psychiatry and
Neurology

AWARDS/HONORS:

1970-1975 Honor Society
University of Puerto Rico

1979 Academic Acknowledgment Plaque (top 10% graduating class)
University of Puerto Rico School of Medicine

1981 Presidential Award of the American Medical
Association, Puerto Rico Chapter

1982 Mead and Johnson Award, best paper by a resident, American Medical
Association, Puerto Rico Chapter's Annual Convention

1982-1985 Physician's Recognition Award by the American
Medical Association

1984-1986 National Research Service Award
PHS Fellowship # 5-T32-NS07179-05-0031
Department of Health and Human Services

1990 "Recent Advances in Neurobiologic Research in Schizophrenia", The John H. Kending Neuroscience Lecture, St. John's Mercy Medical Center, July 18, 1990.

1994- Stanley Scholar
The Stanley Medical Research Institute

1995 "Distinguished Faculty"
Award given by The Medical College of Georgia

1996- Scientific Advisory Board
National Alliance for Autism Research

1999-2000 Tissue Advisory Board (founding member)
Autism Tissue Program

2000- Consultant, Autism Tissue Program

2002 Senior Scientist Award, 11th Biennial Winter Workshop on Schizophrenia, Davos, Switzerland, February 24-March 1, 2002.

2003 Distinguished Clinical Research Award
Medical College of Georgia

2003 Gottfried and Gisela Kolb Endowed Chair in Psychiatry
Department of Psychiatry, University of Louisville

2005 Faculty Best Poster Award, Research Lousiville, November 4, 2005. Seelan RS, Casanova MF, Parthasarathy R: "Myo-inositol Synthase: Identification and Expression of N-Terminal Isoforms in Rat Tissues."

2006 President Elect, Society for Neurosciences, Louisville chapter

2007 International Meeting for Autism Research 2007, Scientific Program Review Committee

2007-2009 Chairperson, NIH-CSR Developmental Brain Disorders Study Section

2007 First Prize Poster Presentation Research Louisville 2007:

I. El-Baz A, **Casanova MF**. Autism Diagnostics by 3D Texture analysis of cerebral white matter gyrifications. Research Louisville, Louisville, October 18-19, 2007. First Prize Potential for Major Clinical Application.

II. Sokhadze E, Singh S, El-Baz A, Mathai G, Sears L, **Casanova MF**. Evoked and induced gamma frequency oscillations and coherence in EEG,

and event-related potential abnormalities during processing of illusory figures in autism spectrum disorders. Research Louisville, Louisville, October 18-19, 2007. First prize Innovation in Behavioral Sciences Category.

III. Van Bogaert E, **Casanova MF**, El-Baz A, Switala A. A new image analysis approach for automatic classification of dyslexic brains. Research Louisville, Louisville, October 18-19, 2007. First Prize student project

2008 First Prize Poster Presentation Research Louisville 2008, Innovation in Behavioral Sciences, Sokhadze E, El-Baz A, Baruth J, Tasman A, Mathai G, Sears L, **Casanova MF**. Electroencephalographic and Behavioral Outcomes of Novel Experimental Trial of Repetitive Transcranial Magnetic Stimulation in Autism, October 21-222, 2008.

2009 Baruth, J., Sokhadze, E., El-Baz, A., Ramaswamy, R., Sears, L., & **Casanova, M. F.** (2009). TMS study of gamma frequency induction in response to illusory figures in patients with autism spectrum disorder. *Presented at the conference of International Society for Neurofeedback Research, Indianapolis, IN, September 2-4.* (Student Award).

2010 Baruth, J., **Casanova, M.,** Sokhadze, G., Sears, L., & Sokhadze, E. (2010). Transcranial magnetic stimulation modulates cognitive potentials in autism. *Presentation at the Association for Applied Psychophysiology & Biofeedback Meeting, San Diego, CA, March 10-12.* (Best Student Award and travelship).

2010 Baruth,J. M., **Casanova, M.,** Sokhadze, E. (2010).Low-frequency repetitive transcranial magnetic stimulation (rTMS) modulates evoked-gamma frequency oscillations in autism spectrum disorder (ASD). *Presentation at the International Society for Neurofeedback and Research Annual Meeting, Denver, CO, September 30 (*Awarded Best Student Presentation and travelship).

2010 Baruth, J., Sokhadze, E., Carroll, T., Horrell, T., Ramaswamy, R., Sears, L., Tasman, A., & **Casanova, M.** (2010). Impaired error monitoring and correction function in autism: an ERP study. *Presented at the Association for Applied Psychophysiology & Biofeedback annual meeting San Diego, CA, March, 2-4. (Citation Award).*

2010 First Prize Poster Presentation Research Louisville 2010 (Faculty Award for Innovation in Behavioral Sciences)

Sokhadze, E., Sears, L., Stewart, C., **Casanova, MF**. Brainwave neurofeedback improves selective attention and alertness in ADHD. Research Louisville 2010 conference, Louisville, KY, November 10, 2010.

2010 Magisterial Presentation. Third World Congress of Autism. Monterrey (Nuevo Leon), Mexico, November 3-5, 2010.

2011 Hensley, M., Sokhadze, E., **Casanova, MF**., El-Baz, A. Development of method for análisis of EEG gamma coherence in children with autism enrolled in TMS treatment. Neuroscience Day, University of Louisville, April 21, 2011. (2nd place undergraduate poster)

2011 Contributing Piece Award presented by Families for Effective Autism Treatment (FEAT) July 15, 2011.

2011 First Prize for Innovation in Behavioral Sciences Research Louisville 2011: Sokhadze T, El-Baz A, Tasman A, Sears L, **Casanova MF**. A novel neuromodulation treatment to improve executive functions in autism. Research Louisville, October 11-13, 2011.

2011 First prize for innovation in Biotechnology Research Louisville 2011: El-Baz A, **Casanova MF**, Switala A. 3D shape analysis of the brain cortex with application to autism. Research Louisville, October 11-13, 2011.

2012 Second prize for graduate students: Dombroski BA, Nitzken MJ, Switala AE, El-Baz AS, **Casanova MF**. Cortical analysis of the NIH pediatric MRI data repository for normative development using spherical harmonics. Neuroscience Day, University of Louisville, April 19, 2012.

2012 Sokhadze, G., Sears, L., El-Baz, A., Sokhadze, E., & **Casanova, M. F**. (2012). An event-related potential study of visual spatial attention deficits in autism. *Presentation at ISNR 20th Annual Conference*, Orlando, FL, September 19-23 (Best student Presentation award)

2012 First Prize for medical students: Allison-McNutt AN, Kawat A, Dombroski BA, Switala AE, El-Baz A, **Casanova MF**. Variable differences in the cortial thickness of autistic individuals as compared to controls. Research Louisville, University of Louisville, September 19, 2012.

2012 Opening Speaker for the International Symposium 2012 of the FRA/CIBERER on Advances in the Biomedical Research of Autism Spectrum Disorders. The Neurobiology of Autism Spectrum Disorders. Barcelona, Spain, September 26, 2012.

2012 Co-founder along with Olga Bogdashina and Board of Trustees member of the International Autism Institute at Krasnoyarsk Pedagogic University, February 27, 2012.

2013 Invited plenary speaker at the 1st Moscow International Scientific Conference. Autism: Challenge and Solutions. Moscow, April 17-19, 2013.

2013 Kiser, R. M. B., Edelson, S., Clemans, Z. A., Sokhadze, E., & **Casanova, M. F**. (2013). Audiovisual stimuli and sensory integration in autism spectrum disorder versus controls. *Presentation at the Louisville Chapter 23rd Annual Neuroscience Day, Louisville, KY, April 11*. (Graduate Student Award, 2nd place).

2013 Kiser R. M. B., Edelson, S., Clemans, Z. A., El-Baz, A. S., Sokhadze, E., & **Casanova, M. F**. (2013). Audiovisual stimuli and sensory intergration in autism spectrum disorder versus controls. *Presentation at 21st Annual ISNR Conference, Dallas, TX, September 18-22 (Best student presentation and travelship award)*

2013 Member of the Scientific Advisory Committee for Generation Rescue

2013 Sokhadze E, El-Baz AS, Sears L, **Casanova MF**. Neuromodulation base on rTMS improves electrocortical measures of information processing in autism. Research! Louisville. First prize Faculty Award.

2013 El-Baz AS, Alansary A, Soliman A, Nitzken M, **Casanova MF**. International challenge MICCAI conference (http://mrbrains13.isi.uu.nl) First Prize.

2014 **Casanova MF**. La Neurobiologia del autism. Magisterial presentation. XV Simposio de investigaciones en salud: discapacidad y ciclo vital. Universidad del Valle, Colombia, 24 de octubre de 2013.

2013 Honorary Professor at V.P. Astafiev Krasnoyarsk State Pedagogic University, November 5, 2013.

2013 Scientific Advisory Board, Clearly Present Foundation

2013 Scientific Advisory Board, Center for Advanced Diagnostics, Evaluation, and Therapeutics, LLC (Jeffrey Lewine PhD, CEO)

2014 Miembro equipo fundador: Autismo Colombia (http://www.autismocolombia.com/nosotros.html)

2015 Scientific Advisory Board, Autism Research Institute, San Diego CA

2015-7 High-end Foreign Expert of the State Administration of Foreign Experts Affairs, Bejing Normal University, China

Named in; Who's Who in the South/Southeast
Who's Who in America
Who's Who in Medicine and Health Care
Who's Who in the World

NIH SERVICE:

APPOINTMENT PERIOD	COMMITTEE NAME	MEMBER TYPE
0/9/21/2005 to 06/30/2007	Developmental Brain Disorders Study Section	REG
08/27/2007 to 06/30/2009	Developmental Brain Disorders Study Section	CHR
06/09/2009	Center for Scientific Review Special Emphasis Panel ZRG1 BDCN-M	CHR

OTHER NIH SERVICE

04/14/19999 to 04/14/1999	Center for Scientific Review Special Emphasis Panel	(SEP)
02/10/2003 to 02/10/2003	National Institute of Mental Health Special Emphasis Panel	(SEP)
03/03/2005 to 03/04/2005	Developmental Brain Study Section	(TMP)
07/07/2005 to 07/08/2005	Center for Scientific Review Special Emphasis Panel	(SEP)
07/08/2005 to 07/08/2005	Center for Scientific Review Special Emphasis Panel	(SEP)
10/2007	NIMH Study Workshop: Strategies for Developing Novel Interventions for Neurodevelopmental Disorders	
09/27/2007 to 09/28/2007	Developmental Brain Disorders Study Section	(TMP)
08/4/2008	Marcy Speer Award Committee	
06/19/2009	Editorial Board Autism ARRA Review	
	ZMH1 ERB-S (A1) R	(SEP)
7/20/2009 to 7/21/2009	ZRG1 BDCN-T (58) R RFA-OD-09-003 Challenge Grant Panel 11	(MAIL REVIEWER)
7/23/2008 to 7/25/2008	Brain Disorders and Clinical Neurosciences (BDCN) and Molecular, Cellular and Developmental Neurosciences (MDCN) Integrated Review Groups (IRG) Review meeting, NIH	
08/2009	Marcy Speer Award Committee	
10/28/2009 to 10/29/2009	2010/01 ZRG1 BBBP-R (02) M Special Emphasis Panel	(SEP)
02/04/2010 to 02/05/2010	Developmental Brain Disorders Study Section	(TMP)
10/25-10/26/2010	ZRG1 BDCN-L (02)	(SEP)
10/25-10/26/2012	Developmental Brain Disorders Study Section	(TMP)

GRANT REVIEWER:

AARA Autism

Action Medical Research (London Charity)
Army Research Office (ARO)
Autism Speaks (UK charity no. 1107350)
Autistica (UK)
BBSRC (England)
Catalan Agency for Health Technology Assessment and Research
Central Commissioning Facility (CCF) RfPB Competition (East of England)
Concepts Awards (Department of Defense)
CSR (NIH, see above)
March of Dimes
Medical Research Council, England
NAAR
Nancy Lurie Marks Family Foundation
New Jersey Governor's Council on Autism
SafeMinds
TV3 Marato Call
VA Merit Review Committee

REVIEWER:

Acta Neuropathologica
American Journal of Psychiatry
Annals of Neurology
Archives of General Psychiatry
Archives of Neurology
Autism
Autism Insight
Autism Research
Behavioral Brain Research
Biological Psychiatry
Brain and Cognition
Brain Research
Brain Structure and Function
Cerebral Cortex
Cognitive and Behavioral Neurology
Depression
Developmental Neuropsychology
Developmental Neuroscience
Dove Medical Press
Frontiers in Neuroanatomy
Frontiers in Synaptic Neuroscience
Hudson Street Press
Journal of Autism and Developmental Disorders
Journal of Neuropsychiatry and Clinical Neuroscience
Journal of Neuroscience
Journal of Special Education and Rehabilitation
International Journal of Developmental Neuroscience

International Review of Psychiatry
Molecular Psychiatry
NeuroReport
Neuropsychopharmacology
Neuroscience
Neuroscience Research
Psychiatry and Clinical Neurosciences
Psychiatry Research
Psychiatry Research (Neuroimaging)
Psychological Medicine
Revista de Neurologia
Schizophrenia Bulletin
Schizophrenia Research
The Cerebellum
The Scientific World Journal
Translational Neuroscience
Translational Psychiatry
Trends in Neurosciences

SOCIETIES:

1975-	Member, American Medical Association
1979	Member, Society for the Neurosciences (Puerto Rico Chapter)
1979	Member, Puerto Rico Academy of Family Physicians
1979	Member, American Academy of Family Physicians
1979	Contributing Member, National Multiple Sclerosis Society
1979-1982	Member, Association de Espina Bifida e Hidrocefalia de Puerto Rico
1979-1984	Member, Sociedad de Ayuda al Paciente con Paraplegia
1981-1985	Junior Member, American Academy of Neurology
1984-1991	Member, Medical and Chirurgical Faculty of the State of Maryland
1985-1991	Member, The Johns Hopkins Medical and Surgical Association
1992- 1995	American Association for the Advancement of Science
1998.2000	American Association of University Professors
1986-2007	Active Member, American Academy of Neurology

2006-	Society for Neuroscience
2007-	International Society for Autism Research (INSAR)
2008-	Public Responsibility in Medicine and Research (PRIM&R)

COMMITTEES:

1987-1988	Schizophrenia Initiative Committee, NIMH
1990	Brain Resource Acquisition and Information Network (BRAIN), NIMH
1993	Medical College of Georgia's Liaison Committee on Medical Education Research Subcommittee
1993-1996	Dean's Student Research Committee, Medical College of Georgia
1993	Post-mortem Community Network, Stanley Watson Chairman
1993	Frontiers in Neuroimaging. Anatomical Definitions Panel. Workshop Sponsored by the NICHD, NIMH, and NINDS July14-16 NIH campus, Bethesda, Maryland.
1992-1995	Medical College of Georgia Research Institute Grants Review Committee
1994-1997	Research and Development (R&D) Committee (IRB) Veterans Affairs Medical Center
1996-1997	The Georgia Coalition for Research in Alzheimer's Disease
1997	Strategic Planning Task Force Scholarship Committee Department of Psychiatry, MCG
1994-1999	Promotions and Tenure Committee Department of Psychiatry, MCG
1996-1999	Human Assurance Committee (IRB) Medical College of Georgia
1996- 2002	National Alliance for Autism Research (NAAR) Scientific Advisory Board
1999	Member, Center for Scientific Review Special Emphasis Panel

National Institute of Health

1999-2000 Tissue Advisory Board (founding member)
Autism Tissue Program

2000- Consultant, Autism Tissue Program

2002-2004 Faculty Development Committee
Medical College of Georgia

2002 and 2003 Faculty Interviewer
Admissions Committee
Medical College of Georgia

2003.2005 MCG Faculty Academic Council (elected representative for Medicine)

a. Faculty Appointment, Promotions, Development, and Tenure Committee
MCG Academic Council

2006 Reviewer, Medical Research Council, England.

2005-2009 Member Developmental Brain Disorders Study Section, Center for Scientific Review, National Institutes of Health

2005-8 Elected Member, Performance Criteria and Economic Welfare Committee
University of Louisville

2005-2006 Search Committee for Chairperson of Pediatrics
University of Louisville

2005- Member, Internal Review Board Committee, University of Louisville

2007 Member, New Jersey Governor's Council on Autism, grant reviewer

2006 Member, University of Louisville Advisory Panel, Depression Center

2007 Grant Reviewer, Army Research Office (ARO), July 2007

2007 Concept Awards (Department of Defense, USAMRMC) October 2007

2008 NIMH Study Workshop: Strategies for Developing Novel Interventions for Neurodevelopmental Disorders, October 2007

2008 Brain Disorders and Clinical Neurosciences (BDCN) and Molecular, Cellular and Developmental Neurosciences (MDCN) Integrated Review Groups (IRG) Review meeting, NIH, July 23-25, 2008

2008- Marcy Speer Award Committee, Center for Scientific Review, NIH

2008 Scientific Advisory Board Lifeboat Foundation

2008 Member, Center for Environmental Genomics and Integrative Biology University of Louisville

2009 Advisory Board: On Mental Health (OMH) stichting, Netherlands. Registration number: KvK # 24474513 Web site: www.onmentalhealth.org.

2010 Search Committee for Chair of Pathology. University of Louisville.

GRADUATE STUDENTS AND OTHERS

2002.2003	Julio Araque (PhD, Anatomy)
2004-2006	Dr. Anouar I. Konkachbaev (PhD, Computer Sciences)
2004-2009	Noha El-Zehiry (PhD, Computer Engineering)
2005-2006	Anna Wagner (MS, Computer Sciences)
2005-2006	Janet Stone (MS, Biochemistry)
2006	Rachid Fahimi (PhD, Computer Engineering)
2006-2011	Meghan Mott (PhD, Anatomy)
2007- 2010	Josua Baruth (PhD, Anatomy)
2006.2007	Gina Richardson (MPH, Public Health)
2009	Ahmed Farag (MS, Engineering)
2009	Brynn Dombrosky (PhD, Anatomy)
2010	Matthew Nitzken (MS and PhD, Bioengineering)
2010	Tama S The (MD, Distinction in Research-medical student)
2010	Ario H Hosseini (MD, Distinction in Research-medical student)
2010	Robert C. Stowe (MD, Distinction in Research-medical student)
2011	Mark Sansbury (MD, Distinction in Research-medical student)
2011	Ryan Kiser (MS, Anatomy)
2012	Shweta Kamat (MS, Anatomy)
2012	Guela Sokhadze (PhD, Anatomy)
2012	Elizabeth Ann Gordon (PhD, Biology)
2013	Lina Vanessa Becerra Hernandez (PhD, Anatomy, Universidad del Valle)

Citations in popular media

- Magnetic promise: Can brain stimulation treat autism? By Lydia Denworth. Spectrum News, September 23, 2015. http://spectrumnews.org/features/deep-dive/magnetic-promise-can-brain-stimulation-treat-autism-2/

- Brain stimulation holds promise in autism treatment by Lydia Denworth, Newsweek, September 2015. http://europe.newsweek.com/brain-stimulation-holds-promise-autism-treatment-333346

- Brain organoids provide insight into autism. http://bit.ly/1I8X4tT July 17, 2015.

- Ultrasound and autism. http://fearlessparent.org/ultrasound-and-autism/ 2014 January 27.

- Kelly Brogan [interviewer]. Ultrasounds—safe and sound? [radio program]. Fearless parent radio, 2013 December 18.

- Jenni Laidman. Trouble in mind. *Louisville magazine* 2013 August; 64(8): 56–62.

- Alan Alda [moderator]. Alan Alda talks with the experts: discussions on dyslexia. The Kildonan School, 2013.

- Jennifer Margulis. Are ultrasounds causing autism in unborn babies? *Women in the world*. 2013 April 29.

- Jennifer Margulis. Ultrasound exposure and autism: Dr. Manuel F. Casanova, M.D., cautions against the overuse of ultrasounds. 2013 April 8.

- Virginia Hughes. Autism brains marked by weak local connections, study says. 2013 February 21.

- Karen Weintraub. Freezer meltdown could seriously impede autism research The Boston globe 2012 December 3.

- Jennifer Margulis. **The business of baby: what doctors don't tell you, what corporations try to sell you, and how to put your pregnancy, childbirth, and baby before their bottom line**. *New York: Scribner, 2013 April 16.*

- Karen Weintraub. ***Autism: banking on new brain donors***. **BBC future** *2012 August 22.*

- Migdalia Fernández. ***Intensa la polémica sobre el autismo***. **LaPrensa** *2012 August 16.*

- Rachel Gotbaum. ***Freezer meltdown could seriously impede autism research*** [radio program]. First broadcast Monday, 2012 June 11 on WBUR, Boston.

- John Elder Robison ***Ultrasound and autism—a connection?*** **My life with Asperger's: How to live a high-functioning life with Asperger's** *[weblog]. 2012 May 21.*

- John Elder Robison. ***Ultrasound and autism—a possible link?*** **Look me in the eye** *[weblog]. 2012 May 20.* Emily Williams and I have elaborated on the topic in a May 28 post, ***More thoughts on ultrasound, questions about risk, and autism***.

- John Cacioppo and Laura Freberg. **Discovering psychology: the science of mind**. Florence, Kentucky: Wadsworth; 2012 March 16 (in press).
- C. L. Haines and Sally J. Colletti (editors). **Autism and seizures: a hidden connection?** *London: Jessica Kingsley; 2012.*
- Elizabeth Woosley (WDRB.com). Doctor raises autism concerns about ultrasounds. http://www.wdrb.com/story/16103395/doctor-raises-autism-concerns-about-ultrasounds. November 22, 2011.
- Virginia Hughes. Autism brains have too many neurons, study suggests. SFARI Autism research Inititative, November 10, 2011 http://sfari.org/news-and-opinion/news/2011/autism-brains-have-too-many-neurons-study-suggests
- John Cacioppo and Laura Freberg, Discovering Psychology: The Science of Mind, Cenage Learning, 2012 (in press).
- Danielle Venton: The Unappreciated Benefits of Dyslexia. Wired, September 20, 2011 ***http://www.wired.com/wiredscience/2011/09/dyslexic-advantage/***
- Lida Geddes: Empathy enhanced by magnetic stimulation of the brain. The New Scientist, magazine issue 2827, August 24, 2011.
- Brock L. Eide and Fernette Eide: *The dyslexic advantage*. New York: Penguin; 2011.
- C. Lisa Haines and Sally Thorpe Colletti (editors): *Autism and seizures: the hidden connection*. London: Jessica Kingsley; 2010.
- Gregg Miller: New clues about what makes the human brain special. Science 330: 1167, 2010.
- Sara Lee Kessler: Decoding autism [television program]. First broadcast Monday, 2010 September 27 at 9:00 p.m. on NJN1. (Preview on Youtube http://www.youtube.com/watch?v=a97i7Dl47vI)
- Daniel Bennett: How to spot a genius. BBC focus 2010 September; 220: 38–43.
- Melissa Swann: U of L scientists: Promising results in autism treatment [television program]. WHAS11 News @ 11pm. First broadcast Monday, 2010 July 26 at 11:00 p.m. on WHAS11.
- Melissa Swann: Could autism be linked to ultrasounds? U of L doctor speaks out [television program]. WHAS11 News at 6pm. First broadcast Monday, 2010 July 26 at 6:00 p.m. on WHAS11.

- Rob Sidell: Dr. Manuel Casanova [radio program]. Weekend autism global news in review. First broadcast Saturday, 2010 July 24 on AutismOne Radio.
- Adam Feinstein: A history of autism: Conversations with the pioneers. Chichester: Wiley-Blackwell; 2010 July 20.
- Olga Bogdashina: Autism and the edges of the known world: Sensitivities, language and constructed reality. London: Jessica Kingsley; 2010 July 10.
- Gina Shaw: In another federal decision, court rules no autism-vaccine connection. Neurology Today Breaking news blog, 2010 May 11.
- Darold Treffert: Islands of genius: The bountiful mind of the autistic, acquired, and sudden savant. London: Jessica Kingsley; 2010 April 15.
- TMS in clinical trials as treatment for autism. OPEN MINDS On-line News, 2010 March 29. [local copy]
- Marcus du Sautoy (presenter): What makes a genius? [television program]. Horizon, series 2009–2010, episode #13. First broadcast Wednesday, 2010 February 17 at 21:00 on BBC Two.
- Dr. Manuel Casanova & University of Louisville autism research [television program]. Louisville Life, episode #408. First broadcast Thursday, 2009 November 19 at 7:30 p.m. on KET2.
- Laura Ungar: Rising autism rate no surprise to experts, parents. Louisville courier-journal, 2009 October 5.
- John R. Anderson: Cognitive psychology and its implications. New York: Worth; 2009 October 1.
- Virginia Gewin: Studies of brain structure boost ‘connectivity theory’ of autism. News & commentary (New York: Simons Foundation), 2009 July 21.
- Kelly House: UL researcher may have found link between conditions such as autism, dyslexia. Louisville courier-journal, 2009 July 21.
- Laura Ungar: U of L researcher receives autism grant. Louisville courier-journal, 2009 June 22.
- Lori Lyle: UofL autism study gets additional funding. WAVE-TV, 2009 June 22.
- Carolyn Y. Johnson: Magnetic field tests “reflexes” of autism. Boston globe, 2009 June 8.

- Thomas R. Collins: First pure autism mouse model created. Neurology Today 2008 November 20; 8(22): 1,9–10.
- Helen Phillips: The outer limits of the human brain. The new Scientist. Magazine issue 2676, October 1, 2008.
- Maia Szalavitz. Do supercharged brains give rise to autism? The New Scientist. Magazine issue 2674, September 19, 2008.
- Temple Grandin: The way I see it: a personal look at autism and Asperger's. Arlington: Future Horizons, 2008 September 1
- Michael S. Gazzaniga: Human: the science behind what makes us unique. New York: Ecco, 2008 June 24.
- T. O. Daria: Dasha's journal: a cat reflects on life, catness and autism. London: Jessica Kingsley, 2008 April 30.
- Tom Paulson: "Love hormone" may emerge as a treatment for autism. Seattle post-intelligencer, 2007 May 4.
- Keith Seinfeld: Autism and brain development [radio program]. KPLU, Seattle, 2007 May 4.
- Michael Balter: Brain evolution studies go micro. Science 2007 March 2; 315: 1208–1211.
- Ingrid Wickelgren: Autistic brains out of synch? Science 2005 June 24; 308, 1856–1858.
- Dana Alliance for Brain Initiatives. 2005 progress report on brain research: Arts and cognition. New York: Dana Press, 2005.
- Kendall Powell: Opening a window to the autistic brain. PLoS biology 2004 August 17; 2(8): 1054–1058.
- Erica Goode: Lifting the veils of autism, one by one. New York times, 2004 February 24.
- Kurt Samson: New studies shed light on brain changes in early autism. Neurology Today 2002 August; 2(8): 1,18–19.

INVITED LECTURES AND SEMINARS

"Cortex", Neuropathology Neuroanatomy Lecture Series, The Johns Hopkins University School of Medicine, Baltimore, Maryland, July, 1985.

"Current Concepts on Alzheimer's Disease", National Institute of Mental Health, Washington, D.C., March 24, 1986.

"Genetic Linkage Studies in Huntington's Disease and Related Conditions", Huntington's Disease Foundation of America, Inc, Washington, D.C., April 17, 1986.

"Alzheimer's Disease: Recent Neuropathological Findings", George Washington University, Washington, D.C., October, 1986.

"The Neuropathology of Schizophrenia", National Alliance for the Mentally Ill, Washington, D.C., September, 1987.

"Neuropathological Studies on the Limbic System of Schizophrenic Patients", American College of Neuropharmacology, Puerto Rico, December, 1988.

"Where is the Pathology in Schizophrenic Brains?" International Congress of Schizophrenia Research, California, April, 1989.

"The Brain in Schizophrenia", The National Alliance for the Mentally Ill, "Research Symposium: State of the Brain", Illinois, April 7, 1989.

"Magnetic Resonance Imaging in Rett Syndrome", Rett Syndrome Research Symposium, the Kennedy Institute, Baltimore, May 19, 1989.

"The Neuropathology of Schizophrenia: Old Findings and New Ideas", Maryland Psychiatric Institute, Catonsville, Maryland, November 13, 1989.

"Neuroimaging Studies in Schizophrenia", Child Psychiatry Branch Seminar, NIH, Bethesda, November 28, 1989.

"Issues in Brain Banking as Related to Schizophrenia Research", Grand Rounds in Internal Medicine (Neurology), University District Hospital, Hato Rey, Puerto Rico, December 12, 1989.

"The Neuropathology of Schizophrenia", Grand Rounds in Psychiatry, Pilgrim Psychiatric Center, New York, May 9, 1990.

"Recent Advances in Neurobiologic Research in Schizophrenia", The John H. Kending Neuroscience Lecture, St. John's Mercy Medical Center, July 18, 1990.

"The Neuropathology of Schizophrenia", Grand Rounds in Psychiatry, Howard University, Washington, D.C., August 14, 1990.

"Postmortem Neuropsychiatry Studies: Methodological Issues", American College of Neuropsychopharmacology, December 10-14, 1990.

"The Neuropathology of Schizophrenia: Developmental vs Neurodegenerative Etiology", American College of Neuropsychopharmacology, December 10-14, 1990.

"The Neuropathology of Schizophrenia Revisited", Medical College of Georgia, March 7-8, 1991.

"Entorhinal Cortex Pathology in Schizophrenia", American Psychiatry Association Annual Meeting, New Orleans, May 11-16, 1991.

"Neuroanatomical and Neurochemical Pathology in Schizophrenia", Review of Psychiatry (vol 10) session, American Psychiatry Association Annual Meeting, New Orleans, May 11-16, 1991.

"NIMH Postmortem Brain Studies in Schizophrenia", 5th World Congress on Biological Psychiatry, Florence, Italy, June 9-15, 1991.

"Recent MRI Findings on Corpus Callosum Morphometry in Schizophrenia", 5th World Congress on Biological Psychiatry, Florence, Italy, June 9-15, 1991.

"The Neuropathology of Schizophrenia", sponsored by the New York Medical College, Department of Psychiatry and Behavioral Sciences, Valhalla, New York, and the Medical Examiners Office of Westchester County, July 29, 1991.

"Postmortem Findings in a Case of Childhood Schizophrenia", Early-Onset Schizophrenia Workshop, Rockville, Maryland, September 23, 24, 1991

"The Neuropathology of Schizophrenia", Grand Rounds in Psychiatry, The Johns Hopkins Hospital, Baltimore, Maryland, September 30, 1991.

"Neuroimaging and Neuropathology in Psychiatry Research", Grand Rounds in Psychiatry, Eisenhower Hospital, Ft. Gordon, Georgia, November 27, 1991.

"The Organic Substratum of Schizophrenia", Augusta/North Augusta
Regional School of Medicine Alumni Dinner, Augusta, Georgia,
January 23, 1992.

"Borderlands Between Psychiatry and Neurology: The Neuropathology of Schizophrenia", Grand Rounds in Neurology, Medical College of Georgia, February 20, 1992.

"The Role of Thiamine in Psychiatry", Grand Rounds in Child Psychiatry, Child Psychiatry Branch, Bethesda, Maryland, March 2, 1992.

"The Neurobiology of Childhood Onset Schizophrenia", American College of Neuropharmacology Annual Meeting, San Juan, Puerto Rico, December, 1992.

"The Role of Brain Banking in Neuropsychiatry Research", The Augusta Alliance for the Mentally Ill, May 14, 1992.

“Alzheimer's disease: recent advances and historical disappointments”, Grand Rounds in Psychiatry, Medical College of Georgia, August 20, 1992.

"Recent Advances in Neuroimaging", Invited lecture for Proyecto de Autismo Infantil, Recinto de Ciencias Medicas, Rio Piedras, Puerto Rico, August 10, 1992.

"Schizophrenia in Layman's Terms", Invited lecturer for the Aiken chapter of the NAMI organization, October 27, 1992.

"Recent Neuropathological Studies in Schizophrenia: Their Relevance to our Understanding of the Disease", Grand Rounds in Psychiatry, Central State Hospital, Milledgeville, Georgia, November 23, 1992.

“Erythrocyte Transketolase Abnormalities in Childhood Schizophrenia”, American College of Neuropharmacology, San Juan, Puerto Rico, December 14-18, 1992.

"Morphological Variability in the Brains of Normal Monozygotic Twins", Dean’s Symposium: Research Progress Report, The Medical College of Georgia, March 23, 1993.

"Recent Advances in Alzheimer's Disease", Alzheimer's Association Annual Conference for Caregivers, Black Mountain, North Carolina, November 5, 1993.

"Organ and Tissue Procurement" Symposia given at the Alzheimer's Association Annual Conference for Caregivers, Black Mountain, North Carolina, November 5, 1993.

“Alzheimer’s Disease: A Historical Perspective”, Institute of Molecular Medicine and Genetics, Medical College of Georgia, January 25, 1996.

“Dementia: An Old Wine in a New Bottle”, Grand Round, Department of Pathology, Medical College of Georgia, February 2, 1996.

“Alopecia Areata”, Department of Dermatology, Medical College of Georgia, February 15, 1996.

"A Biopsychosocial Model for Behavioral Interventions in Medical Illnessess", Grand Rounds in Psychiatry, Medical College of Georgia, April 17, 1997.

"Therapeutic Interventions in Alzheimer's Disease" 5th Annual Alzheimer's Symposium at the Capital Senior Center in Columbia, South Carolina, 1997.

“Recent Histological and Imaging Findings in Schizophrenia: Clues to Etiology”, Grand Rounds in Psychiatry, Medical College of Georgia, January 29, 1998.

"Degenerative Changes in Schizophrenia", World Psychiatry Association, Symposium on the Neurobiology of Schizophrenia. Guadalajara, Mexico, October 28 to 31, 1998.

"Minicolumnar Pathology in Schizophrenia". World Congress of Pathology, Satellite Symposium on the Neuropathology of Schizophrenia, Oxford, England, September 8, 2000.

"From Quandry to Quagmire: Asperger's Syndrome", Grand Rounds in Psychiatry, Medical College of Georgia, September 21, 2000.

"The Neuropathology of Certain Psychiatric Conditions: Schizophrenia and Autism", Grand Rounds in Psychiatry, University of Alabama at Birmingham, October 10, 2000.

"Limbic Tauopathy in Late-Onset Schizophrenia", Grand Rounds in Psychiatry, Medical College of Georgia, October 26, 2000.

"Brain circuitry: Evolution and Pathology", MF Casanova and D Buxhoeveden, Colloquium Series in Psychology, University of South Carolina, February 27, 2001.

"Minicolumnopathies: Autism and other Disorders of Brain Circuitry", Grand Rounds, Department of Neurology, Medical College of Georgia, March 28, 2002.

"Psychiatry and Neurology: Disorders of Circuitry vs. Single Cell Pathology", Grand Rounds, Department of Psychiatry, Medical College of Georgia, April 25, 2002.

"Disorders of Brain Circuitry", Homecoming and Presidential Inauguration, Medical College of Georgia, April 26, 2002.

"Minicolumnopathies: Autism and other Disorders of Brain Circuitry", Research Symposium, Department of Psychiatry, McMaster University, Hamilton, Canada, May 1, 2002.

"Neocortical Circuitry and Psychiatry", Invited Lecturer, Department of Psychiatry, Oxford University, England, October 29, 2002.

"Minicolumnar Pathology in Psychiatry and Neurology", joint lecture for the Department of Psychiatry and Department of Integrative and Molecular Neuroscience, Imperial College, London, England, October 30, 2002.

"Cortical Minicolumns", Cliniconeuropathology Reports and Panel, International Meeting for Autism Research, Orlando, Florida, November 2, 2002.

"Astrocytosis in Schizophrenia", Stanley Medical Research Institute's Glia Symposium, Bethesda, Maryland, November 12, 2002.

"Minicolumns and minicolumnopathies: Relevance to autism", Neurosciences Center, University of California at Davis, Davis, California, March 25, 2003.

"Minicolumns and minicolumnopathies: Relevance to autism", MIND Institute, University of California at Davis, Sacramento, California, March 26, 2003.

"Autism as a minicolumnopathy", Minisymposium of Neuroanatomy in Autism, Autism Tissue Program meeting at New York State Institute for Basic Research in Developmental Disabilities, Staten Island, New York, April 25, 2003.

"Intracortical Circuitry: One of Psychiatry's Missing Assumptions", Neuroscience Grand Rounds, Medical University of South Carolina, Charleston, SC, August 28, 2003.

"Morphological and Clinical Characteristics of Minicolumnopathies: Disturbances of Language and Cerebral Dominance," American College of Neuropharmacology, San Juan Puerto Rico, December 9, 2003.

"The Modular Organization of the Neocortex: The Future Beyond the Neuronal Doctrine", Anatomy Grand Rounds, University of Louisville, Louisville, Kentucky, January, 2004.

"Neocortical Pathology in Psychiatric Conditions", Psychiatry Grand Rounds, University of Louisville, Louisville, Kentucky, February 26, 2004.

"Cortical Circuitry in Psychiatric Conditions", Psychiatry Grand Rounds, University of Cincinnati Medical Center, September 15, 2004.

"Cortical Circuitry in Psychiatric Conditions," Psychiatry Grand Rounds, University of Kentucky, Lexington, Kentucky, September 22, 2004.

"Minicolumns and Neuropathology," Department of Pathology and Laboratory Medicine, Research Conference Series, University of Louisville, October 28, 2004.

"Neocortical Minicolumns," Integrating the Clinical and Basic Sciences of Autism: a Developmental Biology Workshop, Ft. Lauderdale, Fl., Nov 12-14, 2004.

"Recent Developments in the Neuropathology of Psychiatric Illnesses," Psychiatry Grand Rounds, University of Louisville, Louisville, Kentucky, February 24, 2005.

"Cortical Structure", EURON Course "Stereology for Neuroscience Research", in Maastricht, The Netherlands, May 29, 2005.

"Anomalias en Circuitos Corticales (Minicolumnas) en Cerebros de Pacientes Autistas." IV Simposium Internacional Sobre Autismo auspiciado por La Asociación de Padres de Niños Autistas (APNA), Madrid, Espana (Spain), May 4-6, 2005.

"Laws of Conservation in Brain Growth and Evolution." Annual Neuroscience Day. Society for Neuroscience, the Louisville Chapter, April 21, 2005.

"Minicolumnar Variability across Species," Yerkes National Primate Center, Atlanta, May 18, 2005.

"Cell Arrays (Minicolumns) in Normal Development and Pathology," Embryology, Imaging, and Education, American Association of Anatomists, Bethesda, Maryland, July 15-16, 2005

"Cortical Circuitry in Autism," Grand Rounds in Child Psychiatry, University of Lousiville, Louisville, KY, October 5, 2005.

"Cortical Circuitry in Autism," Psychiatry Grand Rounds, Medical University of South Carolina, Charlestone, SC, October 14, 2005.

"Abnormalities of Cortical Modular Organization in Autism," Association for Research in Nervous and Mental Disease and the New York Academy of Medicine, New York, December 2, 2005.

"Minicolumnar Organization of the Neocortex: Implications for Autism Research," Child Study Center and section of Neurobiology, Yale University School of Medicine, December 9, 2005.

"Cortical Modularity: Normal Physiology and Pathological Aspects," Birth Defect Center Research Seminar, University of Louisville, February 14, 2006.

"Cortical Abnormalities in the Modular Arrangement of the Cortex in the Brains of Autistic Patients," Institute for Psychiatric Research Grand Rounds, Indiana University School of Medicine, Indianapolis, Indiana, February 16, 2006.

"The Neurobiology of Autism", Dutch National Autism Congress, Netherlands, March 17, 2006.

"Cortical Modularity," The Birth Defects Center Seminar Series, University Of Louisville, March 21, 2006

"Cortical modularity in the normal and Pathological State," The Cajal Centenary Conference on the Cerebral Cortex, Barcelona, Spain, April 25, 2006.

"Abnormalities of Cortical Circuitry in the Brains of Autistic Individuals," Autism One Congress, Chicago, Ill May 26-27, 2006.

"Abnormalities of Cortical Circuitry in the Brains of Autistic Individuals," Grand Rounds, Department of Psychiatry, University of Louisville, June 8, 2006.

"The Cortical Organization of the Brain," Biology Honors Seminar, Belknap Campus, University of Louisville, March 9, 2007.

"The Anatomy, Ontogenesis and Pathology of the Minicolumn with a Special Emphasis on Autism," Institute of Brain Research, Staten Island, New York, March 16, 2007

"The Brain of Autistic Patients: What is Wrong and How can We Improve It," Autism Awareness Festival, Home of the Innocents, Louisville, KY, April 14, 2007.

"Minicolumnopatias," II Conferencia Internacional Autismo Mas CasadeVall, Barcelona, Spain, April 20-21, 2007.

"What is Wrong with the Brains of Patients with Autism and How can We Fix It?" Autism One, May 24, 2007.

"Autism Research: From Benchtop to Bedside", School of Public Health, University of Louisville, June 27, 2007.

"Biological Underpinnings of Autism," Centenary Celebration of Saint-Justine Hospital, Montreal, Quebec, Canada, October 24, 2007.

"The Neurobiology of Autism," Food and Drug Administration Center for Drug Evaluation and Research (CDER), Visiting Professor Lecture Series (VPLS) cosponsored by the Division of Psychiatry Products and the Office of Training and Communications (OTCOM), Washington, DC, September 10, 2007.

"TMS and Autism" in "Strategies for Developing Novel Interventions for Neurodevelopmental Disorders: An NIMH Workshop" October 2007.

"Cortical Modularity and Autism", First Cortical Modularity and Autism Congress, Autism Speaks (sponsor), University of Louisville, Louisville, October 12-14, 2007.

"Cortical Modularity and Autism", Psychology and Brain Colloquium Series, Department of Psychology, University of Louisville, October 15, 2007.

"Systems Theory and Brain Organization", Governance and Leadership: Chaos Perspective (Course by Drs. James Taylor and John Morse), University of Louisville, February 28, 2008.

"Laws of Conservation as Applied to Brain Growth and Pathology", The Mathematical Biology Seminar, University of Louisville, March 7, 2008.

"Neuropatologia del autismo", Curso de actualizacion en el diagnostico del autismo, El Concejo nacional de rehabilitacion y Educacion Especial, La Valencia de Heredia, Costa Rica, August 23, 2008.

"Neuroanatomia de la corteza cortical", Curso de actualizacion en el diagnostico del autismo, El Concejo nacional de rehabilitacion y Educacion Especial, La Valencia de Heredia, Costa Rica, August 23, 2008.

Nuevos hallazgos en la neurobiologia del autismo", Curso de actualizacion en el diagnostico del autismo, El Concejo nacional de rehabilitacion y Educacion Especial, La Valencia de Heredia, Costa Rica, August 23, 2008.

Cortical Connectivity and Talent in Autism. Royal Society of Medicine, London, England, September 29, 2008.

The Long and the Short of It: Relating Radial Cytoarchitecture to Patterns of Cortical Connectivity in Autism. Grand Rounds, Child Study Center, Yale University School of Medicine, October 21, 2008.

Autism: From Benchtop to Bedside. Honors Biology Seminar. University of Louisville, November 5, 2008.

"A General Introduction to Minicolumnopathies," Distinguished Lecture Series, University of Pennsylvania, January 15, 2009.

"The Role of Minicolumns in Alzheimer's Disease", HSC Research Networking Forum: Alzheimer's disease, University of Louisville, March 18, 2009.

"Cortical Hyperexcitability and Seizures in Autism", Elias Tembenis Seizures Presentation Series, Autism One, Chicago, May 23, 2009.

"Sensory Problems in Autism: Origins and Possible Intervention", Autism One, Chicago, May 24, 2009.

"Autism research: An Update", Oakwood Community Center, Somerset, Kentucky, May 26, 2009.

"Cortical Modularity and Autism", Research Symposium, Brain Institute, University of Utah, Salt lake City, UT, August, 28, 2009.

"Research in Psychiatry", Honors Biology Lecture Series, University of Louisville, Louisville, KY, September 23, 2009.

"Autism: An Update", Convencion Annual del Colegio de Medicina, Universidad de Puerto Rico, October 10, 2009.

"Sensory Integration Problems in Autism", Autism Update, Jewish Hospital, Louisville, KY, October 30, 2009.

"Transcranial Magnetic Stimulation Study of Gamma Frequency Induction in Response to Illusory Figures in Patients with Autism Spectrum Disorders". Panel Presentation. International Society for Neurofeedback & Research, Annual Conference, Indianapolis, Indiana, September 4, 2009.

"A Case of an Elderly Woman with Delusions Progressing into Dementia", Cognitive Case Conference, Jewish Hospital, Louisville, KY, November 2, 2009.

"The Neurobiology of Autism", Third Annual Autism Summit. Southern Indiana Autism Resource Center, Sheraton, Jeffersonville, November 20, 2009.

Minicolumnopathies in Mental Disorders. In Modularity of Mental Disorders Symposium. DGPPN Congress 2009, Berlin, Germany, November 25-29, 2009.

"Autism: Neuropathology, Treatment and Risk Factors", OB-GYN Grand Rounds, University of Louisville, February 9, 2010.

"Postmortem Studies in Autism", Special Interest Group (SIG) on Postmortem Studies, International Meeting for Autism Research, Philadelphia, Pennsylvania, May 20, 2010.

"Autism and Ultrasound", Special Interest Group (SIG) on Maternal Influences in Autism, International Meeting for Autism Research, Philadelphia Pennsylvania, May 22, 2010.

"The Potential Effects of Ultrasound on Fetal Development: Significance for Autism", Autism One, Chicago, Il., May 29, 2010

"The Neurobiology of Autism: The Role of Ultrasound", Autism One, Chicago, Il., May 30, 2010.

"The Role of the Cortex and the Genesis of Seizures in Autism," Autism One, Chicago, Il., May 30, 2010.

"The Neurobiology of Autism: An Update", Grand Rounds Child Psychiatry Division, Department of Psychiatry, University of Louisville, October 6, 2010.

"Translational Research in Autism: From Postmortem Studies to Clinical trials", Greenwood Genetics Center, Greenwood, South Carolina, October 14, 2010.

"Autism Research: From Benchtop to Bedside", Grand Rounds in Pediatrics, Greenville Hospital System, University Medical Center, Greenville, South Carolina, October 15, 2010.

"Macroscopic Correlates to the Minicolumnopathy of Autism: Implications for Corticocortical Connectivity. American Academy of Child and Adolescent Psychiatry, 57th Annual Meeting, New York, New York, October 26, 2010.

"Autism: An Overview", Keynote lecture, Autism Spectrum Academy, Salt Lake City, Utah, November 12, 2010.

"La Neurobiologia del Autismo", Organizacion Mundial del Autismo (OMA), III Congreso Mundial, Monterrey, Mexico, November 3-5, 2010.

"Autism Research from Bench Top to Bedside", ARI/DAN! Think Tank, Dallas, Texas, January 21-23, 2011.

"Brain Development and the Genesis of Pathology in the Brains of Autistic Individuals", The Winter Institute (sponsored by the ART-NeuroDevNet Program), Banff, Alberta, Canada March 2-6, 2011.

"Scientific and Ethical Challenges in genetic/biological markers for autism and other developmental conditions", The Winter Institute (sponsored by the ART-NeuroDevNet Program), Banff, Alberta, Canada March 2-6, 2011.

"Autism: From Desktop to Bedside", 3rd Annual ORNL Biomedical Science and Engineering Conferece: Image Informatics and Analytics in Biomedicine at the Oak Ridge National Laboratory, Knoxville, TN, March 15, 2011.

"The Role of the Periventricular Germinal Matrix in the Pathogenesis of Autism: Target Site for Exogenous Factors". IMFAR 2011 Satellite Meeting on the "Maternal Effects on Autism", San Diego, May 13th, 2011.

"The Hierarchical Organization of the Cerebral Cortex: Minicolumns and Minicolumnopathies", Neuroscience Combined Grand Rounds, University of Louisville, October 28, 2011.

"Repetitive Transcranial Magnetic Stimulation (rTMS) for the treatment of Autism Spectrum Disorders (ASD)", Baruth, J.M., Sokhadze, E.M., Sears, L., **Casanova, M.F**. Mayo Clinic Department of Psychiatry and Psychology, Grand Rounds Lecture, Rochester, Minnesota, April 17, 2012.

"Autism-New Treatments and Latest Research", Space Coast Disability Council, Hilton Melbourne Rialto Place, Florida, July 21, 2012.

"The Neurobiology of Autism Spectrum Disorders". International Symposium 2012 of the FRA/CIBERER on Advances in the Biomedical Research of Autism Spectrum Disorders. Barcelona, Spain, September 26, 2012.

"Biomarkers for Autism", Autism Research Institute Think Tank, April 12-14, 2013.

"Neurological Basis of Autism Spectrum Disorders". 1st Moscow International Scientific Conference. Autism: Challenge and Solutions. Moscow, April 17-19, 2013.

"Dyslexia: The Big Picture". Dyslexia and Talent. Emily Hall Tremaine Foundation. New York, April 19-21, 2013.

"Talking to the Experts on Dyslexia". Interview with Alan Alda. Kildonan School. New York, April 21, 2013.

"Autism: Recent Scientific Advancements", II International Scientific and Educational Forum: The Person, a Family and Society: History and Development Prospects", Krasnoyarsk, Russia, November 6-8, 2013.

"Modularidad de la corteza cerebral: aspectos psiauiatricos", Universidad del Valle, Colombia, 22 de Octubre de 2013

"La neurobiología del autismo", XV Simposio de investigaciones en salud: discapacidad y ciclo vital. Universidad del Valle, Colombia, 24 de octubre de 2013.

"Organization of the cerebral cortex", 3 hour seminar, The Pedagogical University of Krasnoyarsk, Siberia, Russia, November 4, 2013.

"Minicolumns and Minicolumnopathies", 3 hour seminar, The Medical Academy of Krasnoyarsk, Siberia, Russia, November 7, 2013.

"Transcranial magnetic stimulation as a treatment for autism and its neurobiological mechanisms". 2014 TMS ad ERP Workshop. Shanghai Mental Health Center. Shanghai, China, April 1, 2014

"Autism or autisms?" Neuroscience meeting. Zhejiang University of Science and Technology, China, April 2, 2014

"Introduction to autism in the context of TMS". Transcranial magnetic stimulation (TMS) therapy for Autism Consensus Conference. Atlanta, GA, May 13, 2014.

"We already know what happens to the brain in autism". AutismOne, Chicago, May 23, 2014

"The pathophysiology of autism". Think Tank Discussion on the Brain. AutismOne, Chicago, May 24, 2014.

"La neurobiologia del autismo". Congreso Internacional: Perspectiva del autismo 30 anos despues. Autismo Burgos, Burgos, Espana, May 29, 2014.

"Implicaciones en el abordaje diagnostico y terapeutico de la neurobiología". Congreso Internacional: Perspectiva del autismo 30 anos despues. Autismo Burgos, Burgos, Espana, May 30, 2014.

"Autism as a sequence". American Association of Neuropathologists, Oregon, June 12, 2014

"The heterogeneity of autism". Grand Rounds. Autism Research Center, Oregon Health and Science University, Oregon, June 12, 2014.

"Heterochronic germinal cell divisions and abnormalities of migration in autism." Examining a Multi-Systems Approach to Autism and the Environment: Challenges and Opportunities for Research. Hosted by Autism Canada, the Autism Research Institute, and NeuroDevNet. Toronto, Ontario, Canada, June 23-24, 2014.

"Signatures of autism". EMBO conference on brain development and disorders. Autism and related disorders: from bench to bed and back. La Ciotat 5-8 September, 2014.

"Autism or autisms: clinical heterogeneity and pathophysiological mechanisms". Grand Rounds in Psychiatry, University of Louisville. September 11, 2014.

"Putative Pathophysiological Mechanisms in Autism", John D. Wiley Seminar Series, Waisman Center, University of Wisconsin-Madison, September 26, 2014.

"Autism Spectrum Disorders: From Neuropathological Findings to treatment with Transcranial Magnetic Stimulation", The Romanian Academy of Science, June 26, 2015.

"The Smart State Endowed Char in Childhood Neurotherapeutics: Prospects for Collaboration", Clemson University School of Health Research, Clemson, South Carolina, September 14, 2015.

"From bench top to bedside: translational research in autism", Biomedical Research Symposium, University of South Carolina, Columbia, South Carolina, September 21, 2015.

"Autism or autisms: what is the default position?" Grand Rounds, Department of Pediatrics, Greenville Health System, Greenville, South Carolina, September 25, 2015.

"Autism or Autisms: What is the Default Position?" Autism Research Institute (ARI) webinar, September 30, 2015.

"Recent advances in autism research", Autism Connection, Center for Disability Services, Greenville, South Carolina, October 5, 2015.

GRANT SUPPORT

1987-1990 Rett's Program Project. Research Grant # 1 PO 1 HD-NS 23540-01
Co-Investigator. Total amount for neuropathology $110,272

1992 Stanley Foundation Award
Electron microscopic morphometric study of glio-synaptic relationships in autopsy brains of patients with schizophrenia. Sponsor for Natalya Uranova
Total award $20,000

1993 MCG-GT grant
Neuropathological diagnostics via statistical patterns and artificial neural network recognition of magnetic resonance images. M.F. Casanova, Principal Investigator
Total award $15,000

1993 MCG-GT grant
Epileptic seizure localization using high data rate time and phase information. M.F. Casanova, Terry Brown, Donald Bodnar, Co-Principal Investigators.
Total award $15,000

1994-8 VA Merit Award
Morphological correlates of dementia in schizophrenia. M.F. Casanova, Principal Investigator
Total amount of funding $230,531 for 4 years

1994- Stanley Scholars Award
Total Award $15,000 per year

1996 Principal Investigator: The Efficacy, Safety, and Tolerability of Lazabemide (Ro 19-6327) Versus Placebo, Administered for One Year in Patients with Probable Alzheimer's Disease (NINCDS/ADRDA criteria). Protodigm, LTD, $163,385.

1997-9 Co-Principal Investigator: Cell Mediated Immune Mechanisms in Alopecia Areata, Clinical Research Award, Department of Pathology. The Medical College of Georgia, Co-Principal Investigator, $40,000/year

1998 Approved Open-Labeled Extension (2nd year) for: The Efficacy, Safety, and Tolerability of (Ro 19-6327) Versus Placebo, Administered for One Year in Patients with Probable Alzheimer's Disease (NINCDS/ADRDA criteria). Protodigm, LTD, $34,500.

1998 Co-Principal Investigator: Glaxo Wellcome Protocol SCAA2008: A Multicenter, Double-Blind, Placebo-Controlled Evaluation of the Safety and Efficacy of Lamictal Compared to Placebo and Lithium in the Treatment of an Acute Manic Episode in Patients who have Bipolar Disorder: Incorporating Participation in Genotype Research which is Optional for Both Centers and Patients, $119,549.

1998 Co-Principal Investigator: Olanzapine (LY170053) Protocol F1D-US-HGHQ/ Olanzapine Versus Divalproex in the treatment of Acute Mania. Lilly, $20,720.

1999 Approved Open-Labeled Extension (3rd year) for: The Efficacy, Safety, and Tolerability of (Ro 19-6327) Versus Placebo, Administered for One Year in Patients with Probable Alzheimer's Disease (NINCDS/ADRDA criteria). Protodigm, LTD.

1998-2000 Principal Investigator: NAMI Research Institute: A computer-based analysis of cell columns and perikaryal morphology in the brains of neuroleptic treated schizophrenic patients and normals) $44,000 for 1998-1999 and $46,000 for 1999-2000.

1999-2003 Co-Investigator: Oxidative Cell Injury in First Break Psychotic Patients. RO1, $797,000.

2001.3 Principal Investigator: Increased Interneuronal Space in the Minicolumns of Major Depression and Bipolar Disorder Brains. Theodore and Vada Stanley Foundation Research Award, $100,000.

2002-3 Principal Investigator: Modular Abnormalities of Brain Organization in Autism, Medical College of Georgia's Combined Intramural Grants Program, $45,000.

2001-5 Principal Investigator: Comparative Minicolumn Lateralization in Schizophrenia. NIMH, RO1, $1,214,500.

2003-5 Principal Investigator: MRI Correlates of Minicolumnar Pathology in Autism, National Alliance for Autism Research, $60,000 per year ($120,000 total).

2002-6 Principal Investigator: Reduced Interneuronal Space in the Minicolumns of Schizophrenic Brains, NIMH, RO1 MH062654, $874,233.

2002-6 Principal Investigator: Normal human and schizophrenic brain. NIMH, RO1 MH061606, $1,161,270.

2004.8 Principal Investigator: Modular abnormalities of brain organization in autism, NIMH, RO1 MH069991, $948,389.

2005-2007 Co-Investigator: The Effect of Interneuron Loss on Minicolumnar Structure. COBRE (Molecular Determinants of Developmental Defects), $120,000.

2005-2009 Co-Investigator: Mood stabilizing medications and the inositol signaling system, VA Merit Review, $1,044,200. (Ranga Parthasarathy, PI)

2006 Principal Investigator. Autism Research Center. Collaborative Planning and Developmental Award, University of Louisville $10,000.

2007 Symposium on Cortical Modularity: Normal Development and Pathology." NAAR/Autism Speaks, $25,000, Casanova MF, PI.

2009-2013 Consultant: Mood stabilizing medications and the inositol signaling system, VA Merit Review (Ranga Parthasarathy, PI).

2009-2013 Principal Investigator: Building a selective inhibitory tone in autism: an rTMS study. RO1MH086784 $888,000.

2009.2011 Principal Investigator: Gross morphological correlates to the minicolumnopathy of autism. RO11MH088893 $607,859.

2011 Co-Investigator: Behavioral and psychophysiological study of attentional, perceptual, and emotional processing after treatment with ambient prism lenses and visuo-motor excercises in children with autism spectrum disorder. Autism Research Institute $4,731. (E Sokhadze, PI)

2012 Casanova MF (Co-Principal Investigator): A novel image-based diagnostic system for the accurate diagnosis of autism. Coulter Translational Research Partnership, Wallace H. Coulter Foundation Award. $100,000 (Ayman El-Baz Co-PI)

2013 Casanova MF (Principal Investigator): Anatomical and functional modularity of the cerebral cortex. $8,000. 1R13HD077998-01

2012-2013 Casanova MF (Co-Investigator) Electrophysiological and behavioral outcomes of Auditory Integration Training (AIT) in Autism. Autism Research Institute, $18,000.

2013-2014 Casanova MF (Co-Principal Investigator) Effects of Repetitive Transcranial Magnetic on Gamma Activity and Redox State. Autism Research Institute, $50,000.

2013-2014 Casanova MF (Co-Principal Investigator): A novel image-based diagnostic system for the accurate diagnosis of autism. Coulter Translational Research Partnership, Wallace H. Coulter Foundation Award. $100,000 (Ayman El-Baz Co-PI) Competitice renewal awarded

2013-2015 Casanova MF (Co-Principal Investigator). A novel image-based diagnostic system for the accurate diagnosis of autism. Kentucky Science and Technology Corporation (KSTC): COMMFUND-12-RFP-014, $100,000.

2013-2017 Casanova MF (Consultant): Mood stabilizing medications and the inositol signaling system, VA Merit Review, submitted (Ranga Parthasarathy, PI).

2014-2016 Casanova MF (Co-I): AR130386 - TMS-Based Neuromodulation Therapy for Autonomic Dysfunctions in Autism. Invited for submission.

2014-2015 Casanova MF (Co-I). Investigation of pre-pubertal sex differences in brain morphology, wheel turning and social behavior in mice. Research Initiation Grant, University of Louisville, $3,085. (Cynthia Corbitt PI)

2015 Casanova MF (PI). A quantitative study of pyramidal cells and interneurons in the cerebral cortex of patients with autism spectrum disorders. Autism Research Institute (ARI), $3,000.

2015Casanova MF (PI). A quantitative study of pyramidal cells and interneurons in the cerebral cortex of patients with autism spectrum disorders. Autism Research Institute (ARI), $20,000.

2015 Casanova MF (Co-PI) Computer Assisted Detection Method for Understanding Autism in Young Children. NIH 1 R41 HD084040-01, submitted.

NONFUNDED TRIALS

1997 MF Casanova (Principal Investigator): An Open Label Study of the Efficacy of Topical DMSO/Essential Fatty Acids in the Treatment of Patients with Alopecia Areata.

1998 MF Casanova (Principal Investigator): The Use of 19-Nor 1, 25 Vitamin D3 for the Treatment of Alopecia Areata.

EDUCATION

Introduction to Clinical Research
Fundamentals of Good Clinical Practices
Informed Consent Process
Adverse-Event Reporting
Clinical Trial Management
Drug and Device Regulations
Industry Sponsored Research
Important Topics for Clinical Research Professionals in these Changing Times
Bloodborne Pathogens Training

Patents and Patent Applications:

1. El-Baz, A, Casanova, M., and Nitzken, M. **United States Patent Application serial no. 13/834,231**; "*Computer Aided Diagnostic System Incorporating 3d Shape Analysis Of The Brain For Identifying Autism And/Or Dyslexia"* filed March 15, 2013. Published October 3, 2013 Publication number 2013-0259346-A1, Patent pending: **ULRF ref. #11064.**
2. El-Baz AS, Al-Ansary A, Soliman A, Nitzken MJ, Casanova MF. **United States Patent Application serial no. 62/024,829**; "*Computer aided diagnostic system for medical image data"* filed July 15, 2014.

Copyrights:

1. El-Baz, A, Casanova, M., and Nitzken, M., United States Issued Registered **Copyright no. TX 7-520-124**, "*Mesh Diagnostic Software*" filed April 5, 2012. **ULRF ref. 12063**.

Research Disclosure Forms (RDFs):
ULRF # 11065; RDF Title: *3D Shape Analysis Of The Brain Cortex With Application To Dyslexia*; Inventors: El-Baz, A, Casanova, M., and Nitzken, M. Status: Retained Title.

ULRF # 13028; RDF Title: *Neuromodulation Method And System Based On Tms And Neurofeedback Combination To Treat Symptomsin Autism Spectrum Disorder*; Inventors: El-Baz, A, Casanova, M., and Sokhadze, E. Status: Pending additional data and information.

ULRF # 13098; RDF Title: *xMESH Brain Mapping. Project Icarus-Corealign*; Inventors: El-Baz, A, Casanova, M., and Nitzken, M. Status: Retained Title.

License/Option Agreements:

1. **Technology: RDF # 11064, 12063, and 13098**; Option Agreement track code: 13529-OA, Status: Currently in negotiations.

2. **Technology: RDF # 12063**: Option Agreement track code: 14152-OA, Status: Currently in negotiations.

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2. **Casanova MF**: CT scan diagnosis of parenchymatous cerebral metastases. Bol Asoc Med PR 74:13-15, 1982.

3. **Casanova MF**: Vasogenic edema with intraparenchymatous expansive mass lesions: a theory on its pathophysiology and mode of action of hyperventilation and corticosteroids. Med Hypothesis 13:439-450, 1984.

4. Vassos B, Lopez E, **Casanova M**: Demodulating phononeumograph. Science-Ciencia 11:26-28, 1984.

5. **Casanova MF**: Coma: Pathophysiology and procedure guide. Bol Assoc Med PR 76:524-528, 1984.

6. Ramirez-Rivera J, **Casanova MF**, Vassos B: Rectifying demodulating phononeumograph, a non-invasive technique for the study of airways obstruction. PR Health Sci J 3: 65-70, 1984.

7. **Casanova MF**, Walker LC, Whitehouse PJ, Price DL: Abnormalities of the nucleus basalis of Meynert in Down's syndrome. Ann Neurol 18:310-313, 1985.

8. Cork LC, Sternberger NH, Sternberger LA, **Casanova MF**, Struble RG, Price DL: Phosphorylated neurofilament antigens in neurofibrillary tangles in Alzheimer's Disease. J Neuropathol Exp Neurol 45:56-64, 1986.

9. **Casanova MF**, Vassos B, Mejias E: A new non-invasive method for the diagnosis of large-joint arthritis: rectifying-demodulating phonopneumography. Bol Asoc Med PR 78:9-11, 1986.

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11. Price DL, Altschuler RJ, Struble RG, Casanova MF,Cork LC, Murphy DB: Sequestration of tubulin in neurons in Alzheimer's disease. Brain Res 385:305-310, 1986.

12. **Casanova MF**, Troncoso JC and Price DL: Cerebral hemorrhagic infarcts: An autopsy study of 76 cases. Bol Asoc Med PR 79:7-11, 1987.

13. Zweig RM, Whitehouse PJ, **Casanova MF**, Walker LC, Jankel WR and Price DL: Loss of pedunculopontine neurons in progressive supranuclear palsy. Ann Neurol 22:18-25, 1987.

14. Struble RG, Powers RE, **Casanova MF**, Brown EC, Kitt CA and Price DL: Neuropeptidergic systems in plaques of Alzheimer's disease. J Neuropath Exp Neurol 46:567-584, 1987.

15. Lowenstein PR, Slesinger PA, Singer HS, Walker LC, **Casanova MF**, Price DL and Coyle JT: An autoradiographic study of the development of 3H-hemicholinium-3 binding sites in human and baboon basal ganglia: A marker for the sodium dependent high affinity choline uptake system. Dev Brain Res 34:291-297, 1987.

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17. Zweig RM, Hedreen JC, Jankel WR, **Casanova MF**, Whitehouse PJ and Price DL: Pathology in brainstem regions of individuals with primary dystonia. Neurology 38: 702-706, 1988.

18. **Casanova MF**: Brain Death: a personal perspective. Bol Asoc Med PR 80(5): 173-176, 1988.

19. Kleinman J, **Casanova MF**, Jaskiw G: The Neuropathology of Schizophrenia. Schizophrenia Bull 14(2): 209-216, 1988.

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22. Slesinger PA, Lowenstein PR, Walker LC, **Casanova MF**, Price DL, Coyle JT and Singer HS: The development of B1 and B2 adrenergic receptors in baboon brain: an autoradiographic study using [125I] iodocyanopinodolol. J Comp Neurol 273:318-329, 1988.

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