

Curriculum Vitae			
NAME: Richard Eugene Frye	PRESENT TITLE: Associate Professor of Pediatrics Director of Autism Research Director of The Autism Multispecialty Clinic Co-Director of The Neurometabolic Clinic Director of The Neuroimmune Clinic		
ADDRESS: 13 Children's Way, Little Rock, AR 72202	BIRTHDATE: December 15, 1964		
	CITIZENSHIP: USA		
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Long Island University, Greenvale, NY	B.A.	1982-86	Psychobiology / Computer Science
Drexel University, Philadelphia, PA	M.S.	1988-91	Biomedical Science/ Biostatistics
Georgetown University, Washington, DC	Ph.D.	1991-98	Physiology and Biophysics
Georgetown University, Washington, DC	M.D.	1991-98	Medicine

Postgraduate Training

5/1998-6/2000	Resident in Pediatrics , Jackson Memorial Hospital, University of Miami, Miami, FL
7/2000-6/2003	Resident in Neurology , Children's Hospital Boston, Harvard University, Boston, MA
7/2003-6/2005	Fellow in Behavioral Neurology and Learning Disabilities , Children's Hospital Boston, Harvard University, Boston, MA
7/2004-6/2005	Fellow in Psychology , Department of Psychology, Boston University, Boston, MA

Specialized Coursework in Clinical Trials and Translational Research

2016	Advanced GCP: Assessing Compliance Risk , Association for Clinical Research Professionals, <u>Arkansas Children's Hospital</u> , Little Rock, AR
2009	Clinical Trials , <u>University of Texas Health Science Center</u> , Houston, TX
2009	Navigating the Regulatory Highway , <u>University of Texas Health Science Center</u> , Houston, TX
2007	Translational Research , <u>University of Texas Health Science Center</u> , Houston, TX
2004	Introduction of Clinical Research , <u>Children's Hospital Boston</u> , Boston, MA

Specialized Training in Neuroimaging

2010	ANFI Bootcamp , University of Texas Health Science Center, Houston, TX
2005	Near-Infrared Spectroscopy-Diffuse Optical Imaging Visiting Fellowship , <u>MGH/MIT/HMS Martinos Imaging Center</u> , Charlestown, MA
2003	Mini-Fellowship in Transcranial Magnetic Stimulation , Laboratory for Magnetic Brain Stimulation, <u>Beth-Israel Deaconess Medical Center</u> , Boston, MA
2003	Siemens IDEA Software for Magnetic Resonance Sequence and Image Processing Development Training , <u>MGH/MIT/HMS Martinos Imaging Center</u> , Charlestown, MA
2003	Basic and Advanced Magnencephalography Operations and Data Analysis , <u>Martinos Imaging Center</u> , Charlestown, MA
2003	fMRI Statistics , <u>Martinos Imaging Center</u> , Charlestown, MA

Specialized Training in Cognitive Neuroscience

2008	Autism Diagnostic Observation Schedule Clinical and Research Training , University of Texas Health Science Center, Houston, TX
2005	Summer Institute for Cognitive Neuroscience , <u>Dartmouth College</u> , Hanover, NH

Specialized Training in Complex and Non-linear System

1996	Complex Systems Summer School , <u>Sante Fe Institute</u> , Sante Fe, NM
1994	Noise Fluctuation Analysis: Characteristics of Ion-Channel Signal Ensemble , Department of Physiology and Biophysics, <u>Georgetown University</u> , Washington, DC
1993	Origins of Order: Non-Linear Systems and Evolution , Department of Chemistry, <u>Georgetown University</u> , Washington, DC

Academic Appointments

7/2005-6/2006 **Assistant Professor**, Department of Pediatrics and Neurology,
University of Florida, Gainesville, FL

7/2005-6/2006 **Co-Medical Director**, Multidisciplinary Diagnostic and Training Program,
University of Florida, Gainesville, FL

1/2006-6/2006 **Co-Director**, University of Florida School Problems Clinic,
University of Florida, Gainesville, FL

7/2006-9/2011 **Assistant Professor**, Department of Pediatrics, Divisions of Child and Adolescent
Neurology and The Children's Learning Institute; Department of Neurology,
University of Texas, Houston, TX

1/2007-9/2011 **Member**, Center for Clinical and Translational Science, University of Texas,
Houston, TX

1/2007-9/2011 **Director**, Medically-Based Autism Clinic, Department of Pediatrics, University of Texas,
Houston, TX

1/2010-9/2011 **Director**, Laboratory for the Biological Basis of Neurodevelopmental Disorders,
University of Texas, Houston, TX

10/2011-12/2017 **Associate Professor**, Department of Pediatrics, University of Arkansas Medical Center,
Little Rock, Arkansas

10/2011-12/2017 **Director of Autism Research**, Arkansas Children's Hospital Research Institute,
Little Rock, Arkansas

3/2012-12/2017 **Neurology Consultant**, Autism Treatment Network, University of Arkansas for
Medical Sciences, Little Rock, Arkansas

6/2012-12/2017 **Director, Autism Multispecialty Clinic**, Arkansas Children's Hospital,
Little Rock, Arkansas

10/2013-12/2017 **Co-Director, Neurometabolic Clinic**, Arkansas Children's Hospital,
Little Rock, Arkansas

8/2014-12/2017 **Member, Center for Applied Research and Evaluation**, Arkansas Children's Hospital,
Little Rock, Arkansas

1/2017-
12/2017-
12/2017- **Director, Neuroimmune Clinic**, Arkansas Children's Hospital, Little Rock, Arkansas
Professor of Child Health, University of Arizona College of Medicine, Phoenix AZ
Chief, Section on Neurodevelopmental Disorders, Barrow Neurological Institute,
Phoenix Children's Hospital, Phoenix AZ

12/2017- **Director, Autism Program**, Barrow Neurological Institute,
Phoenix Children's Hospital, Phoenix AZ

Hospital Appointments:

7/2005-6/2006 Shands Hospital, University of Florida, Gainesville, FL

7/2006-9/2011 Hermann Memorial Hospital, University of Texas Health Science Center, Houston, TX

12/2011-12/2017 University of Arkansas for Medical Sciences, Little Rock, AR

1/2012-12/2017 Arkansas Children's Hospital, Little Rock, AR

12/2017 Phoenix Children's Hospital, Phoenix AZ

Medical Licenses:

Arkansas	E7303	Active Unlimited	12/02/2011-12/31/2018
Texas	M5715	Full Medical License	03/12/2007-11/30/2017
Arizona	54974	Active	09/28/2017-04/15/2019

Honors and Awards

1991 **Distinguished Service Award**. Smell and Taste Research Center, University of Pennsylvania.

1991-1998 **Ruggles Scholarship**. Georgetown University Medical School, Washington, DC

1993-1996 **Pre-Doctoral Fellowship**. National Biomedical Research Foundation, Washington, D.C.

1994-1995 **ARCS Award**, Achievement Rewards for College Scientists Foundation, Washington, D.C..

1998 **Lawrence S. Lilienfield, MD, PhD Award**, Department of Physiology and Biophysics,
Georgetown University Graduate School of Arts and Sciences

2003-2005 **Charles King Foundation Post-Doctoral Fellowship**, Medical Foundation, Boston, MA

2006 **Nelson Butters Award**, International Neuropsychological Society, Columbus, Ohio
2013 **Arkansas Biomedical Institute New Investigator Award**, University of Arkansas for
Medical Sciences, Little Rock AR

Board Certifications:

10/2004-9/2024 **Board Certification in General Pediatrics**
5/2004-4/2024 **Board Certification in Neurology with Special Competence in Child Neurology**
3/2016-2/2018 **Certified Principal Investigator, Association of Clinical Research Professionals**

Editorial Board:

2016- Clinical Medicine Insights: Pediatrics, Editorial Board
2016- Journal of Autism and Epilepsy, Editorial Board
2013- American Journal of Neuroscience Research, Advisory Editorial Board
2013- Frontiers in Child Health and Human Development, Associate Editor
2013- Journal of Central Nervous System Disease, Editorial Board
2013- Frontiers in Neuropsychiatric Imaging and Stimulation, Review Editorial Board
2012- Scientific Reports Editorial Board
2012- OA Autism, Advisory Board Member
2012- The North American Journal of Medicine and Science, Editorial Board
2007- Computers in Biology and Medicine, Editorial Board
2007 Journal of Pediatric Neurology, USA Editor
2005-2007 Computers in Biology and Medicine, Associate Editor
2006-2007 Journal of Pediatric Neurology, Assistant Editor

Publication Indices:

h-index: 36; **i10-index:** 87; Citations: 5,057

Special Issue Guest Editor:

1. **Neuroconnectivity**, Computers in Biology and Medicine, Dec 2011; Volume 41, Issue 12
2. **Mitochondrial, Metabolic and Nutritional Disorders Associated with Neurodevelopmental Disorders**, Journal of Pediatric Biochemistry, Dec 2012; Volume 2, Issue 4.
3. **The Microbiome in Autism Spectrum Disorder**, Microbial Ecology in Health and Disease, S1, 2015

Reviewer: Acta Paediatrica, Autism Research, Biological Psychiatry, BMC Complementary and Alternative Medicine, BMC Psychiatry, Clinical Chemistry and Laboratory Medicine, Clinical Therapeutics, Developmental Cognitive Neuroscience, Developmental Medicine and Child Neurology, Developmental Neuroscience, Epilepsy Research, Environmental Science and Pollution Research, Expert Opinion On Therapeutic Targets, Genes, Frontiers in Child and Neurodevelopmental Psychiatry, Frontiers in Experimental Pharmacology and Drug Discovery, Frontiers in Epilepsy, Frontiers in Neuropsychiatric Imaging and Stimulation, Brain and Behavior, Headache, International Journal of Environmental Research and Public Health, International Journal of Molecular Sciences, Journal of Autism and Developmental Disorders, Journal of the International Neuropsychological Society, Journal of Neurochemistry, Journal of Neuroinflammation, Journal of Pediatric Infectious Disease, Journal of Psychosomatic Research, Molecular Basis of Disease, Molecular Psychiatry, Neurobiology of Aging, Neuroimage, Neurology, Neuropsychologia, Neuropsychopharmacology, Neuroscience and Biobehavioral Reviews, Neuroscience Letters, New England Journal of Medicine, Pediatrics, Prague Medical Report, Psychiatry Research, Redox Biology, Scientific Reports, Transactions on Biomedical Engineering

Service on Committees:

1991-1993 **Legislative Liaison, Georgetown University Chapter**, American Medical Student Association
Reston VA
1992-1993 **President, Georgetown University Chapter**, American Medical Student Association
Reston VA
1992-1993 **Associate Regional Trustee for the Washington DC Area**, American Medical Student Association, Reston VA
1993 **Chairman, Credentials Committee**, American Medical Student Association, Reston VA

- 1995 **Project Organizer, Holiday Hope for the Homeless Project**, Georgetown University Medical School, Washington DC
- 1998-2000 **Housestaff Education Committee**, Department of Pediatrics, University of Miami, Jackson Memorial Hospital, Miami FL
- 2005-2006 **Neuroimaging Development Committee**, Department of Neurology, University of Florida Gainesville, FL
- 2005-2005 **Magnetoencephalography Development Committee**, Department of Pediatrics and Neurology, University of Florida, Gainesville FL
- 2006 **Resident Education Committee**, Department of Neurology, University of Florida Gainesville, FL
- 2006-2008 **Faculty Senate**, University of Texas Health Science Center at Houston, Houston, TX
- 2006-2009 **Pediatric Residency Interview Committee**, University of Texas Health Science Center at Houston, Houston, TX
- 2011-2014 **EEG Working group**, Autism Treatment Network, Boston MA
- 2012-2015 **Biorepository Committee**, Arkansas Children's Hospital Research Institute, Little Rock AR
- 2012-2016 **Inpatient Medical-Surgery Committee**, Arkansas Children's Hospital, Little Rock, AR
- 2013- **Clinical Competency Committee**, Child Neurology Residency Program, Arkansas Children's Hospital, Little Rock, AR
- 2013- **Arkansas Legislative Task Force on Autism**, State of Arkansas, Little Rock, AR
- 2017- **PCRU Space Task Force**, Arkansas Children's Research Institute, Little Rock, AR

Service on National Advisory Boards

- 1993 **Legislative Advisory Board**, American Medical Student Association, Reston, Va
- 2006-2012 **Medical Reviewer**, National Association of Rare Diseases, Danbury, CT
- 2008-2012 **Medical Advisor**, The American Epilepsy Outreach Foundation, Chicago, IL
- 2009-2012 **Scientific Advisor**, BioMarin Pharmaceuticals Inc., Novato, CA
- 2012-2017 **Chair, Scientific Advisory Board**, Generation Rescue, Los Angeles CA
- 2011 **Child Neurology Advisory Board**, Seaside Therapeutics, Cambridge MA
- 2012- **Scientific Advisory Board**, Talking About Curing Autism, Irvine CA
- 2014- **Advisory Committee**, Autism Nutrition Research Center, Tempe, AZ
- 2014- **Scientific Advisory Board**, Center for Advanced Diagnostics, Evaluation, and Therapeutics, Albuquerque, NM
- 2014- **Scientific Advisory Board**, The Neurological Health Foundation, Dallas TX
- 2015- **Scientific Advisory Board**, Autism Research Institute, San Diego CA
- 2015- **"Mito On Call" Physician Advisory Board**, United Mitochondrial Disease Foundation, Pittsburgh, PA

Service on Industry Advisory Boards

- 2014- **Chair, Scientific Advisory Board**, Iliad Neurosciences, Plymouth Meeting, PA
- 2017- **Scientific Advisory Board**, Aces Health, Atlanta GA
- 2017- **Scientific Advisory Board**, Neuroneeds Inc,

Service on International Advisory Boards

- 2015 **American-Chinese Autism International Forum Steering Committee**

Service on National and International Grant Review Boards

- 2012-Present **Autism Research Institute**, San Diego, CA, USA
- 2012-2016 **Autism Speaks**, New York, NY, USA
- 2015-2016 **French National Research Agency**, Paris, France
- 2014,2016 **Food and Health Bureau**, Hong Kong, China
- 2014 **NeuroDevNet Expert Review Panel**, Ottawa, Canada
- 2014,2017 **Neurological Foundation of New Zealand**, Auckland, New Zealand

Society Memberships

- 1995-Present Society for Neuroscience
- 1998-Present American Academy of Pediatrics

2000-Present American Academy of Neurology
2000-Present Child Neurology Society
2008-Present International Society for Autism Research
2015-Present Mitochondrial Medicine Society
2016-Present Association for Clinical Research Professionals

Current Grant Support:

2017-2018 **Atypical tryptophan metabolism is related to autism characteristics: Development of plasma and urine biomarkers.** Autism Research Institute, San Diego, CA. **Principal Investigator**

2017-2019 **Metabolic biomarkers in people with Down Syndrome.** Down's Syndrome Foundation, Irving TX. **Principal Investigator.**

2017-2022 **A High-dose Folinic Acid Treatment for Core and Associated Symptoms of Autism.** National Institute of Child Health and Development, **Principal Investigator.**

2016-2017 **Effect of AIMS and HSP90 inhibitors on in vitro mitochondrial respiration in control and autism lymphoblastoid cell lines.** Reata Pharmaceuticals, Inc, Irving TX. **Principal Investigator**

2017-2018 **Phytocannabinoids protective effect on oxidative stress induced mitochondrial dysfunction in control and autistic cell lines** GW Pharmaceuticals, Cambridge, UK, **Principal Investigator.**

2017-2018 **The effect of phytocannabinoids on mitochondrial function in Chronic Fatigue Syndrome** GW Pharmaceuticals, Cambridge, UK, **Principal Investigator.**

2016-2019 **Treating Gastrointestinal and Autism Symptoms in Adults with Autism Using Microbiota Transfer Therapy.** Department of Defense, **Co-investigator**

2017 **Folate and Cobalamin Insufficiency in Autism Spectrum Disorder: Biomarkers of treatments response and connection to autoimmunity.** The Jonty Foundation. **Principal Investigator**

2015-2017 **Fetal Acetaminophen: A Potential Neurobehavioral Teratogen.** NARSAD Young Investigator Grant, Brain and Behavior Research Foundation, Great Neck, NY. **Mentor**

Current Industry Sponsored Trials

2015-2016 **A Double Blind Randomized Placebo Controlled Study of CM-AT for the Treatment of Autism in Children With All Levels of Fecal Chymotrypsin.** Curemark, LLC, Rye, NY.

2016-2017 **A Open-Label Extension Study of CM-AT for the Treatment of Autism in Children.** Curemark, LLC, Rye, NY.

2015-2017 **CAMP-01: Children's Autism Metabolome Project (CAMP): Development and Clinical Evaluation of the Stemina Metabolic Biomarker-Based Test to Diagnose Autism Spectrum Disorder in Early Childhood.** Stemina Biomarker Discovery, Inc., Madison, WI

Past Industry Sponsored Trials

2014-2015 **A randomized, double-blind, phase 2a crossover study to assess the safety and efficacy of *Trichuris suis* ova for the treatment of Autism Spectrum Disorder.** Coronado Biosciences, Burlington, MA

2014-2015 **An Exploratory Open-Label Phase 2 Study of EPI-743 (Vincerinone™) in Children with Autism Spectrum Disorder,** Edison Pharmaceuticals, Inc., Mountain View, CA

2012-2014 **An Open-Label Extension Study of the Safety and Tolerability of Memantine in Pediatric Patients with Autism, Asperger's Disorder or Pervasive Developmental Disorder Not Otherwise Specified (PDD-NOS) ,** Forest Laboratories, New York, NY

2012-2013 **An Open-Label Study Of The Safety And Tolerability Of Memantine In Pediatric Patients With Autism, Asperger's Disorder, Or Pervasive Developmental Disorder Not Otherwise Specified (PDD-NOS),** Forest Laboratories, New York, NY

2012-2013 **A Double-Blind, Placebo-Controlled, Randomized Withdrawal Study of the Safety and Efficacy of Memantine in Pediatric Patients with Autism, Asperger's Disorder, or Pervasive Developmental Disorder Not Otherwise Specified (PDD-NOS) Previously Treated with Memantine,** Forest Laboratories, New York, NY

2010-2012 **Biomarkers of central nervous system tetrahydrobiopterin concentration and response to tetrahydrobiopterin supplementation in children with idiopathic cognitive developmental disorders**, BioMarin Pharmaceuticals Inc., Novato, CA

Past Grant Support:

2014-2016 **Effectiveness of Services for Children with Autism Spectrum Disorders**. National Institute of Child Health and Development, **Co-investigator**

2014-2016 **Effectiveness of Early Intensive Behavioral Intervention Services for Children with Autism Spectrum Disorders**. Autism Treatment Network, Boston, MA, **Co-investigator**

2015-2016 **Mitochondrial Dysfunction in Autism Spectrum Disorder**. Autism Research Institute, San Diego, CA. **Principal Investigator**

2013-2016 **Folate receptor autoimmunity in autism spectrum disorders**, Autism Speaks, New York NY **Co-Investigator**

2015-2016 **Mitochondrial dysfunction and autism spectrum disorders - inflammatory subtype**. Autism Research Institute, San Diego, CA. **Co-investigator**.

2012-2015 **A folinic acid intervention for ASD: links to folate receptor autoimmunity & redox metabolism**. Brenen Hornstein Autism Research and Education (BHARE) Foundation, Elk Grove Village IL; Fraternal Order of Eagles, Little Rock AR; Lee Silsby Pharmacy, Cleveland, OH; Doctors Data, Chicago, IL. **Principal Investigator**

2012-2015 **Mitochondrial Dysfunction in Autism**. The Jane Botsford Johnson Foundation. New York, NY. **Principal Investigator**

2013-2015 **Autism Translating to Treatments Study..** Subcontract of UCSF. The Jane Botsford Johnson Foundation. New York, NY. **Site Investigator**

2013-2015 **Healthy GFCF Modified Atkins Diet for Treating Seizures in Autism**, Autism Research Institute, San Diego, CA. **Co-investigator**.

2012-2013 **Prenatal Neuromagnetic Biomarkers for Neurodevelopmental Disorders**. UAMS Translational Research Institute. Little Rock, AR

2011-2012 **Medical Etiologies of Neurodevelopmental Disorders: Cerebral Folate Deficiency**. Autism Research Institute, San Diego, CA.

2010-2012 **Mitochondrial Dysfunction in Autism: Patient Characteristics and Relation to Mitochondrial Toxins**. The Jane Botsford Johnson Foundation. New York, NY.

2010-2011 **Survey on treatment for children with autism with and without seizures**. Autism Research Institute.

2009-2011 **Relational and Abstract Learning in Individuals with Autism Spectrum Disorder**, University of Texas Pilot Award, University of Texas Health Science Center, Houston, TX, Co-PI.

2007-2010 **Rapid Sensory Processing in Well and Poorly Compensated Young Adults with Dyslexia**, Center for Clinical and Translational Science, UTHSC, Houston, TX, Principal Investigator.

2007-2009 **K Award Supplement**, UTHSC, Houston, TX, Principal Investigator.

2005-2006 **University of Florida School Problems Clinic, Innovative New Program Grant**, Children's Miracle Network, Gainesville, FL, Principal Investigator.

2005-2010 **Developmental Phonological Dyslexia: Neural Mechanisms, Mentored Patient-Oriented Research Career Development Award**, NINDS, Bethesda, MD, Principal Investigator

2003-2005 **Auditory and Visual Phonologic Processing in Adults With and Without Dyslexia**. Martinos Imaging Center Pilot Fund, Charlestown, MA (Co-investigator with Dr. Eric Halgren).

2002-2003 **Distinct behavioral and brain activity profiles for two kinds of dyslexia: implications for individualized treatment**. Boston University Institutional Award, Boston University, Boston, MA. (Dr. Jacqueline Liederman, PI. Dr. Richard Frye and others, Co-Investigators).

1987-1991 **Development of a Computerized Nasal Resistance System, Small Business Innovation Research Grant: Phase I and II**, NHLBI, Bethesda, MD., Principal Investigator

1998 **The Nasal Cycle and its Relationship to REM/NREM, Body Movement, and Hemispheric Cerebral Activity During Sleep**. Eleanor Dana Center for Sleep Disorders, University of Pennsylvania, Philadelphia, PA, Co-Principal Investigator.

Publications: Original Papers in Journals

1. Mester, A.F., Doty, R.L., Shapiro, A. & **Frye, R.E.** Influence of body tilt within the sagittal plane on odor identification performance. Aviation, Space, and Environmental Medicine, 59:734-7, 1988.

2. Doty, R.L., Deems, D.A., **Frye, R.E.**, Pelberg, R. & Shapiro, A. **Olfactory sensitivity, nasal resistance, autonomic function in patients with multiple chemical sensitivities.** Archives of Otolaryngology -- Head and Neck Surgery, 114:1422-7, 1988.
3. Schwartz, B., Doty, R.L., Monroe, C., **Frye, R.E.** & Barker, S. **Alterations in olfactory function in industrial chemical workers exposed to ethyl acrylate.** American Journal of Public Health, 79:613-8, 1989.
4. Doty, R.L., **Frye, R.E.** & Agrawal, U. **Internal consistency reliability of the fractionated and whole University of Pennsylvania Smell Identification Test.** Perception and Psychophysics, 45:381-4, 1989.
5. **Frye, R.E.**, Schwartz, B. & Doty, R.L. **Dose-Related effects of cigarette smoking on olfactory function.** Journal of the American Medical Association, 9:1233-6, 1989.
6. Doty, R.L., **Frye, R.E.** **Influence of nasal obstruction on smell function.** Otolaryngologic Clinics of North America, 22:397-411, 1989.
7. Doty, R.L., Kreiss, D.S. & **Frye, R.E.** **Human odor perception: Correlation with frog epithelial adenylate cyclase activity and transepithelial voltage response.** Brain Research, 527:130-4, 1990.
8. **Frye, R.E.** & Doty, R.L. **A comparison of response characteristics of airflow and pressure transducers commonly used in rhinomanometry.** IEEE Transactions in Biomedical Engineering, 37:937-44, 1990.
9. McKeown, D.A., Doty, R.L., Perl, D.P., **Frye, R.E.**, Simms, I. & Mester, A. **Olfactory Function In Young Adolescents With Down's Syndrome,** Journal of Neurology, Neurosurgery and Psychiatry, 61:412-414, 1996.
10. **Frye, R.E.** **Advances in Image Analysis: Developing Shift-Invariant Texture Descriptors,** Scientific Computing and Automation, 13(5):43-4, 1996.
11. **Frye, R.E.** **Book Review: The Handbook of Brain Theory and Neural Networks,** Computers in Biology and Medicine. 26:361-2, 1996.
12. **Frye, R.E.** & Ledley, R.S. **Texture discrimination using discrete cosine transformation shift-insensitive (DCT SIS) descriptors** Pattern Recognition, 33:1585-1598, 2000.
13. **Frye, R.E.**, Ascher, S. & Thomasson, D. **Magnetic Resonance Hysterosalpinography: Sequence Optimization and Simulation of Normal and Abnormal Tube Patency.** Radiology, 214: 107-112, 2000.
14. **Frye, R.E.**, Donner, E., Golja, A. & Rooney, C.M. **Folinic Acid Responsive Seizures Presenting as Breakthrough Seizures in a Three Month Old Boy.** Journal of Child Neurology, 18:562-569, 2003.
15. **Frye, R.E.**, Nugent, A., Newburger, J.W. and Sahin, M. **Focal Seizure and Cerebral Contrast Retention after Cardiac Catheterization,** Pediatric Neurology, 32:213-216, 2005.
16. Liederman, J, **Frye, R.E.** McGraw Fisher, J. Greenwood, K. & Alexander, R. **A temporally dynamic contextual effect that disrupts voice onset time discrimination of rapidly successive stimuli,** Psychonomic Bulletin and Review, 12:380-386, 2005.
17. **Frye, R.E.** and Gorman, M. **"Index of Suspicion" case of Hashimoto encephalopathy.** Pediatrics in Review, 27(1):29-33, 2006.
18. Poling, J.S., **Frye, R.E.**, Shoffner, J., Zimmerman, A.W. **Developmental regression and mitochondrial dysfunction in a child with autism.** Journal of Child Neurology, 21(2): 170-172, 2006.
19. **Frye, R.E.**, Hait, E.J. **Air Swallowing Causing Recurrent Ileus in Gilles de la Tourette Syndrome.** Pediatrics, 117(6):e1249-52, 2006.
20. **Frye, R.E.** **Recurrent Aseptic Encephalitis in Periodic Fever, Aphthous Stomatitis, Pharyngitis and Adenopathy (PFAPA) Syndrome.** The Pediatric Infectious Disease Journal, 25(5): 2006.
21. Anselm, I.M., Alkuraya, F.S., Salomons, G.S., Jakobs, C., Fulton, A.B., Mazumdar, M., Rivkin, M., **Frye, R.**, Poussaint, T.Y., Marsden, D. **X-linked creatine transporter defect: A report on two unrelated boys with a severe clinical phenotype.** Journal of Inherited and Metabolic Disease, 29(1):214-219, 2006.
22. **Frye, R.E.**, Polling, J.S., Ma, L.C.K. **Choroid Plexus Papilloma Expansion Over 7 Years in Aicardi Syndrome.** Journal of Child Neurology, 22(4):484-487, 2007.
23. **Frye, R.E.** **Cerebral arterial gas embolism following cardiopulmonary bypass surgery.** Journal of Pediatric Neurology, 5(2):179-180, 2007.
24. **Frye, R.E.**, McGraw Fisher, J., Coty, A., Zarella, M., Liederman, J. Halgren, E. **Linear Coding of Voice Onset Time.** Journal of Cognitive Neuroscience, 19(9):1476-1487, 2007.
25. **Frye, R.E.**, Rotenberg, A., Ousley, M., Pascual-Leone, A. **Transcranial Magnetic Stimulation in Child Neurology: Current and Future Directions.** Journal of Child Neurology, 23(1): 79-96, 2008.
26. **Frye, R.E.**, McGraw Fisher, J., Witzel, T., Ahlfors, S.P., Swank, P., Liederman, J. Halgren, E. **Objective Phonological and Subjective Perceptual Characteristics of Syllables Modulate Spatiotemporal Patterns of Superior Temporal Gyrus Activity.** Neuroimage. 40: 1888-1901, 2008.

27. Beauchamp, M.S., Yasar, N.E., **Frye, R.E.**, Ro, T. **Touch, Sound and Vision in Human Superior Temporal Sulcus**, Neuroimage, 41: 1011-1020, 2008.
28. **Frye, R.E.**, Hasan, K., Xue, L., Strickland, D., Malmberg, B., Liederman, J., Papanicolaou, A. **Splenium Microstructure is Related to Two Dimensions of Reading Skill**. Neuroreport, 19(16):1627-31, 2008
29. **Frye, R.E.**, Beauchamp, M.S. **Receptive Language Organization in High-Functioning Autism**. Journal of Child Neurology, 24(2):231-9, 2009
30. **Frye, R.E.**, Rezaie, R., Papanicolaou, A.C. **Functional Neuroimaging of Language Using Magnetoencephalography**. Physics of Life Reviews, 6:1-10, 2009.
31. **Frye, R.E.**, Smith, K., Swank, P., Landry, S. **Executive Dysfunction in Poor Readers Born Prematurely at High Risk**. Developmental Neuropsychology, 34(3):254-71, 2009.
32. **Frye, R.E.** **Reversible posterior leukoencephalopathy syndrome in sickle cell anemia**. Pediatric Neurology, 40(4):298-301, 2009.
33. **Frye, R.E.** **15q11.2-13 Duplication, Mitochondrial Dysfunction and Developmental Disorders**. Journal of Child Neurology, 24:1316-20, 2009.
34. **Frye, R.E.**, Malmberg, B., deSouza, L., Swank, P., Smith, K., Landry, S. **Increased prefrontal activation in adolescents born prematurely at high risk during a reading task**. Brain Research, 1303:111-9, 2009.
35. **Frye, R.E.**, Butler, I., Strickland, D., Castillo, E., Papanicolaou, A. **Electroencephalogram discharges in atypical cognitive development**. Journal of Child Neurology, 25:556-66, 2010.
36. **Frye, R.E.**, Malmberg, B., Swank, P., Smith, K., Landry, S. **Preterm birth and maternal responsiveness during childhood are associated with brain morphology in adolescence**. Journal of the International Neuropsychological Society, 8:1-11, 2010.
37. Pollonini, L., Pophale, S., Wu, W., **Frye, R.E.**, Leon-Carrion, J., Zouridakis, G. **Information Communication Networks in Severe Traumatic Brain Injury**. Brain Topography, 23(2):221-6, 2010.
38. **Frye, R.E.**, Malmberg, B., McLean, J., Swank, P., Smith, K., Papanicolaou, A., Landry, S. **Increased left prefrontal activation during an auditory language task in adolescents born preterm at high-risk**. Brain Research, 1336:89-97, 2010.
39. **Frye, R.E.**, Hasan, K., Malmberg, B., deSouza, L., Swank, P., Smith, K., Landry, S. **Superior longitudinal fasciculus and cognitive dysfunction in adolescents born preterm and at term**. Developmental Medicine and Child Neurology, 2010; 52:760-6.
40. **Frye, R.E.**, Liederman, J., Malmberg, B., MacLean, J., Strickland, D., Beauchamp, M.S. **Surface Area Accounts for the Relation of Gray Matter Volume to Reading-Related Skills and History of Dyslexia**, Cerebral Cortex, 20:2625-35.
41. **Frye, R.E.**, Huffman, L.C., Elliott, G.R. **Tetrahydrobiopterin as a novel therapeutic intervention for autism**, Neurotherapeutics, 2010; 7:241-9.
42. Hasan, K.M., Walimuni, I.S., Kramer, L.A., **Frye, R.E.** **Human Brain Atlas-based Volumetry and Relaxometry: Application to Healthy Development and Natural Aging**. Magn Reson Med, 2010; 64:1382-9.
43. Kamali, A., Hasan, K.M., Kramer, K.A. **Frye, R.E.** **Diffusion Tensor Tractography of the Human Brain Cortico-Ponto-Cerebellar Pathways: A Quantitative Preliminary Study**. Journal of Magnetic Resonance Imaging, 2010; 32:809-17.
44. **Frye, R.E.** **Central tetrahydrobiopterin concentration in neurodevelopmental disorders**. Frontiers in Neuropharmacology, 2010; 4:52.
45. **Frye, R.E.**, Wu, M.H., Liederman, J., Fisher, J.M. **Greater pre-stimulus effective connectivity from the left inferior frontal area to other areas is associated with better phonological decoding in dyslexic readers**. Frontiers in Systems Neuroscience, 2010; 4:156.
46. Hasan, K.M., **Frye, R.E.** **Diffusion Tensor based Regional Gray Matter Tissue Segmentation Using the International Consortium for Brain Mapping Atlases**. Human Brain Mapping, 2011; 32:107-17.
47. **Frye, R.E.**, Liederman, J., Hasan, K.M., Lincoln, A., Malmberg, B., deSouza, L., McLean, J., Papanicolaou, A. **Diffusion tensor quantification of the relations between microstructural and macrostructural indices of white matter and reading**. Human Brain Mapping, 2011 Aug;32(8):1220-35. doi: 10.1002/hbm.21103.
48. **Frye, R.E.**, Wu, M.H. **Multichannel least-squares linear regression provides a fast, accurate, unbiased and robust estimation of Granger causality for neurophysiological data**. Computers in Biology and Medicine, 2011 Dec;41(12):1118-31. doi: 10.1016/j.compbiomed.2011.04.012.

49. Wu, M.H., **Frye, R.E.**, Zouridakis, G. **A Comparison of Multivariate Causality Based Measures of Effective Connectivity.** Computers in Biology and Medicine, 2011 Dec;41(12):1132-41. doi: 10.1016/j.combiomed.2011.06.007.
50. **Frye, R.E.** **Leber's hereditary optic neuropathy mutations associated with infantile-onset myoclonic epilepsy.** Journal of Child Neurology, 2011 Jun;26(6):782-5.
51. Rossignol, D., **Frye, R.E.** **Mitochondrial Dysfunction in Autism Spectrum Disorders: A Systematic Review and Meta-Analysis.** Molecular Psychiatry, 2012 Mar;17(3):290-314. doi: 10.1038/mp.2010.136.
52. Rossignol, D., **Frye, R.E.** **Melatonin in Autism Spectrum Disorders: A Systematic Review and Meta-analysis.** Developmental Medicine and Child Neurology, 2011 Sep;53(9):783-92. doi: 10.1111/j.1469-8749.2011.03980.x.
53. **Frye, R.E.**, Rossignol, D. **Mitochondrial dysfunction can connect the diverse medical symptoms associated with autism spectrum disorders.** Pediatric Research, 2011 May;69(5 Pt 2):41R-7R.
54. Liederman, J., Gilbert, K., McGraw Fisher, J., Mathews, G., **Frye, R.E.**, Joshi, P. **Are women more influenced than men by top-down semantic information when listening to disrupted speech?** Language and Speech, 2011 Mar;54(Pt 1):33-48.
55. McGraw Fisher, J., Liederman, J., Johnson, J., Lincoln, A., **Frye, R.** **A demonstration that task difficulty can confound the interpretation of lateral differences in brain activation between typical and dyslexic readers.** Laterality, 2012 May;17(3):340-60. Epub 2011 Oct 13.
56. Liederman J, Fisher JM, Coty A, Matthews G, **Frye RE**, Lincoln A, Alexander R. **Sex Differences in the Use of Delayed Semantic Context When Listening to Disrupted Speech.** Arch Sex Behav. 2013 Feb;42(2):197-201. doi: 10.1007/s10508-012-9941-7. Epub 2012 Mar 21
57. **Frye, R.E.**, Naviaux, R.K. **Autistic disorder with complex IV overactivity: A new mitochondrial syndrome.** Journal of Pediatric Neurology, 2011; 9:427-434.
58. **Frye, R.E.** **Novel mitochondrial Cytochrome b gene polymorphisms associated with autism.** Journal of Pediatric Neurology, 2012; 10:35-40
59. **Frye, R.E.**, Sreenivasula, S., Adams, J.B. **Traditional and non-traditional treatments for autism spectrum disorder with seizures: an on-line survey.** BMC Pediatrics, 11:27, 2011. **High Accessed Distinction.**
60. Pearlman, M., **Frye, R.**, Butler, I., Papanicolaou, A.C., Castillo, E., Slopis, J. **Patterns of electromagnetic activity recorded from neoplastic tissue.** J Neurooncol. 2011 May 15. [Epub ahead of print]
61. Hasan, K., Walimuni, I., Abid, H., **Frye, R.**, Ewing-Cobbs, L., Wolinsky, J., Narayana, P. **Multimodal Quantitative Magnetic Resonance Imaging of Thalamic Development and Aging across the Human Lifespan: Implications to Neurodegeneration in Multiple Sclerosis.** Journal of Neuroscience, 2011 Nov 16;31(46):16826-32.
62. **Frye, R.E.**, Liederman, J., McGraw Fisher, J., Wu, M.H. **Laterality of temporoparietal causal connectivity during the pre-stimulus period correlates with phonological decoding task performance in dyslexic and typical readers.** Cerebral Cortex, 2011 Oct 6.
63. Leon-Carrion, J., Leon-Dominguez, U., Pollonini, L., Wu, M.H., **Frye, R.E.**, Dominguez-Morales, M.R., Zouridakis, G. **Synchronization between the anterior and posterior cortex determines consciousness level in patients with traumatic brain injury (TBI).** Brain Res. 2012 Mar 29. [Epub ahead of print]
64. **Frye, R.E.** **Mitochondrial disease in 22q13 duplication syndrome.** Journal of Child Neurology, 2012 Feb 28.
65. Rossignol, D., **Frye, R.E.** **A review of research trends in physiological abnormalities in autism spectrum disorders: immune dysregulation, inflammation, oxidative stress, mitochondrial dysfunction and environmental toxicant exposures,** Molecular Psychiatry, 2012 Apr;17(4):389-401. doi: 10.1038/mp.2011.165.
66. **Frye, R.E.** **Biomarkers of Abnormal Energy Metabolism in Children with Autism Spectrum Disorder.** The North American Journal of Medicine and Science, 2012; 5(3):141-7
67. Rossignol, D., **Frye, R.E.** **Cerebral Folate Deficiency,** Journal of Pediatric Biochemistry, 2012 Dec; 4(2):263-271.
68. **Frye, R.E.**, Rossignol, D. **Treatments for Mitochondrial Dysfunction,** Journal of Pediatric Biochemistry, 2012 Dec; 4(2):241-249.
69. **Frye, R.E.**, Rossignol, D. **Metabolic Disorders Associated with Autism Spectrum Disorder.** Journal of Pediatric Biochemistry, 2012 Dec; 4(2):181-191.

70. Rossignol, D.A., Bradstreet, J.J., Van Dyke, K., Schneider, C., Freedenfeld, S., O'Hara, N., Cave, S., Buckley, J.A., Mumper, E.A., **Frye, R.E. Hyperbaric oxygen treatment in autism spectrum disorders.** Medical Gas Research, 2012 Jun 15;2(1):16. doi: 10.1186/2045-9912-2-16.
71. Rose, S., Melnyk, S., Pavliv, O., Bia, S., Nick, T., **Frye, R.E.**, James, J.S. **Evidence of oxidative damage and inflammation associated with low glutathione redox status and mitochondrial dysfunction in the autism brain.** Translational Psychiatry, 2012 Jul 10;2:e134. doi: 10.1038/tp.2012.61.
72. Hasan, K.M., Walimuni, I.S., **Frye, R.E. Global and Regional Multimodal Neuroimaging Markers of the Neurobiology of Autism: Development and Cognition,** Journal of Child Neurology, 2013 Jul;28(7):874-85. doi: 10.1177/0883073812452917. Epub 2012 Aug 16.
73. **Frye, R.E.**, Sequeira, J.M., Quadros, E.V., James, S.J., Rossignol, D. **Cerebral folate receptor autoantibodies in autism spectrum disorder,** Molecular Psychiatry, 2013 Mar;18(3):369-81. doi: 10.1038/mp.2011.175. Epub 2012 Jan 10.
74. Li, H, Xue, Z., Ellmore, T.M., **Frye, R.E.**, Wong, S.T.C. **Network-Based Analysis Reveals Stronger Local Diffusion-Based Connectivity and Different Correlations with Oral Language Skills in Brains of High Functioning Autism Spectrum Disorders,** Human Brain Mapping, 2013 Sep 24. doi: 10.1002/hbm.22185. [Epub ahead of print]
75. **Frye, R.E.**, Melnyk, S. MacFabe, D. **Unique acyl-carnitine profiles are potential biomarkers for acquired mitochondrial disease in autism spectrum disorder.** Translational Psychiatry, 2013 Jan 22;3:e220. doi: 10.1038/tp.2012.143.
76. **Frye, R.E.**, DeLaTorre, R. Taylor, H. Slattery, J., Melnyk, S. James, S.J. **Metabolic Effects of Sapropterin Treatment in Autism Spectrum Disorder.** Translational Psychiatry, 2013 Mar 5;3:e237. doi: 10.1038/tp.2013.14.
77. **Frye, R.E.**, Rossignol, D.A. **Mitochondrial Physiology in Autism Spectrum Disorder.** OA Autism, 2013, 1(1):5.
78. Ellmore, T.M., Li, H., Xue, Z., **Frye, R.E.** Wong, S.T. **Tract-based spatial statistics reveal altered relationship between non-verbal reasoning abilities and white matter integrity in autism spectrum disorder.** Journal of the International Neuropsychological Society, 2013 19:723-8.
79. **Frye, R.E.**, DeLaTorre, R. Taylor, H. Slattery, J., Melnyk, S. James, S.J. **Redox Metabolism Abnormalities in Autistic Children Associated with Mitochondrial Disease.** Translational Psychiatry, 2013 3:e273. doi: 10.1038/tp.2013.51. PMID3693408.
80. **Frye, R.E. A Lack of statistical pitfalls in the comparison of multivariate causality measures for effective causality.** Computers in Biology and Medicine, 2013 43:962-965. doi:10.1016/j.combiomed.2013.02.001
81. **Frye, R.E.**, Rossignol, D., Casanova, M.F., Martin, V., Brown, G., Edelson, S.M., Coben, R., Lewine, J.D., Slattery, J.C., Lau, C., Hardy, P., Fatemi, S.H., Folsom, T.D., MacFabe, D.F., Adams, J. **A review of traditional and novel treatments for seizures in autism spectrum disorder: Findings from a systematic review and expert panel.** Frontiers in Public Health, 2013 1:31. doi: 10.3389/fpubh.2013.00031. **Featured Article**
82. **Frye, R.E. Tetrahydrobiopterin may be transported into the central nervous system by the folate receptor α .** The North American Journal of Medicine and Science, 2013, 6(3):117-120
83. **Frye, R.E.**, Melnyk, S., Fuchs, G., Reid, T., Jernigan, S., Pavliv, O., Hubanks, A., Gaylor, D.W., Walters L., James, S.J. **Effectiveness of methylcobalamin and folinic acid treatment on adaptive behavior in children with autistic disorder is related to glutathione redox status.** Autism Research and Treatment, 2013;2013:609705. doi: 10.1155/2013/609705. Epub 2013 Oct 12.
84. Rossignol, D., **Frye, R.E. Melatonin in Autism Spectrum Disorders.** Current Clinical Pharmacology, 2014; 9:1-9.
85. **Frye, R.E.**, James, S.J. **Potential metabolic markers of autism spectrum disorder.** Biomarkers in Medicine, 2014; 8(3):321-30. doi: 10.2217/bmm.13.158.
86. Rose, S., **Frye, R.E.**, Slattery, J., Melnyk, S., Wynne, R., Tippett, M., James, S.J. **Oxidative Stress Induces Mitochondrial Dysfunction in a Subset of Autism Lymphoblastoid Cell Lines in a Well-Matched Case Control Cohort.** PLOS One, 2014 Jan 8;9(1):e85436. doi: 10.1371/journal.pone.0085436
87. Rossignol, D.A., Genus, S. **Frye, R.E. Environmental toxicants and autism spectrum disorders: A systematic review.** Translational Psychiatry, 2014; 4, e360. doi:10.1038/tp.2014.4.
88. Rose, S., **Frye, R.E.**, Slattery, J., Melnyk, S., Wynne, R., Tippett, M., James, S.J. **Oxidative Stress Induces Mitochondrial Dysfunction in a Subset of Autism Lymphoblastoid Cell Lines.** Translational Psychiatry, 2014; 4:e377. doi: 10.1038/tp.2014.15.

89. Rossignol, D.A., **Frye, R.E. Evidence linking oxidative stress, mitochondrial dysfunction and inflammation in the autism brain.** Frontiers in Physiology, 2014; 5:150. doi: 10.3389/fphys.2014.00150.
90. **Frye, R.E. Clinical potential, safety and tolerability of Arbaclofen in the treatment of Autism.** Drug, Healthcare and Patient Safety, 2014; 6:69-76.
91. **Frye, R.E.,** Sequeira, J.M., Quadros, E.V., Rossignol, D. **Folate receptor alpha autoantibodies modulates thyroid function in autism spectrum disorder,** The North American Journal of Medicine and Science, 2014; 7(2):53-56. doi: 10.7156/najms.2014.0701053.
92. **Frye, R.E.,** Rossignol, D.A. **Treatments for Biomedical Abnormalities Associated with Autism Spectrum Disorder.** Frontiers in Pediatrics, 2014; 2:66. doi: 10.3389/fped.2014.00066.
93. **Frye, R.E.. Tetrahydrobiopterin deficiency in autism spectrum disorder.** The North American Journal of Medicine and Science, 2014; 7(3):93-96. doi: 10.7156/najms.2014.0703093
94. Rossignol, D.A., **Frye, R.E. The use of medications approved for Alzheimer's disease in autism spectrum disorder: a systematic review.** Frontiers in Pediatrics, 2014; 2:87. doi:10.3389/fped.2014.00087
95. Samanta, D., Raghu, R., Willis, E., **Frye, R.E. Myoclonic epilepsy evolved into West syndrome: A patient with novel de novo KCNQ2 mutation.** Acta Neurologica Belgica 2015 Sep;115(3):475-8.
96. **Frye, R.E. Metabolic and Mitochondrial Disorders Associated with Epilepsy in Children with Autism Spectrum Disorder.** Epilepsy and Behavior, 2015 Jun;47:147-57. doi: 10.1016/j.yebeh.2014.08.134. Epub 2014 Nov 4. Review. PubMed PMID: 25440829.
97. **Frye, R.E.,** Liederman, J. **Cortical organization of language pathways in children with non-localized cryptogenic epilepsy.** Frontiers in Human Neuroscience, 2014; 8:808. doi: 10.3389/fnhum.2014.00808.
98. Rose, S., Wynn, R., **Frye, R.E.,** James, S.J. **Increased Susceptibility to Ethylmercury-induced Mitochondrial Dysfunction in a Subset of Autism Lymphoblastoid Cell Lines,** Journal of Toxicology, 2015, 2015 (2015), Article ID 573701, 13 pages, <http://dx.doi.org/10.1155/2015/573701>
99. Leon-Carrion, J., Leon-Dominguez, U., Pollonini, L., Wu, M.H., **Frye, R.E.,** Dominguez-Morales, M.R., Zouridakis, G. **Living without frontal lobes after TBI.** Brain Injury, 2014; 28:757-758.
100. **Frye, R.E. Sudden onset complex tic associated with streptococcal infection in a neonate: The first case of neonatal PANDAS,** The North American Journal of Medicine and Science, 2015; 8(2):92-95. doi: 10.7156/najms.2015.0802092
101. **Frye, R.E.,** Slattery, J., MacFabe, D.F., Allen-Vercoe, E., Parker, W., Rodakis, J., Adams, J.B., Krajmalnik-Brown, R., Bolte, E., Cerniglia, C.E., Kahler, S., Jennings, J., James, S.J., Midtvedt, T. **Approaches to studying and manipulating the enteric microbiome to improve autism symptoms.** Microbial Ecology in Health and Disease, 2015 May 7;26:26878.
102. **Frye, R.E.,** MacFabe, D.F. **Gastrointestinal dysfunction in autism spectrum disorder: The role of the mitochondria and the enteric microbiome.** Microbial Ecology in Health and Disease, 2015 May 7;26:27458.
103. Deepmala, D., Slattery, J., Kumar, N., Delhey, L., Berk, M., Dean, O., Spielholz, C., **Frye, R.E. Clinical Trials of N-acetylcysteine in Psychiatry and Neurology: A Systematic Review.** Neuroscience and Biobehavioral Reviews, 2015 Aug;55:294-321. doi: 10.1016/j.neubiorev.2015.04.015.
104. Tilford, J.M., Payakachat, N., Kuhlthau, K., Pyne, J.M., Kovacs, E., Bellando, J., Williams, D.K., Brouwer, W., **Frye, R.E. Treatment for sleep problems in children with autism and caregiver spillover effects.** Journal of Autism and Developmental Disorders, 2015 Jul 1 [Epub ahead of print].
105. **Frye, R.E. Prevalence, Significance and Clinical Characteristics of Seizures, Epilepsy and Subclinical Electrical Activity in Autism.** The North American Journal of Medicine and Science, 2015;8(3):113-122. DOI: 10.7156/najms.2015.0803113
106. **Frye, R.E. Autism spectrum disorder in the emergency department: Looking beyond behavior.** International Journal of Emergency Mental Health, 2015 17(3):661-663.
107. **Frye, R.E.,** Tippett, M., Delhey, L., Slattery, J. **Test-Retest Reliability and Validity of the Autism Symptoms Questionnaire.** The North American Journal of Medicine and Science, 2015, 8(4):149-153.
108. **Frye, R.E.,** Cox, D., Slattery, J., Tippett, M., Kahler, S., Granpeesheh, D., Damle, S., Legido, A., Goldenthal, M.J. **Mitochondrial Dysfunction may explain symptom variation in Phelan-McDermid Syndrome,** Scientific Reports, 2016, 6:19544. DOI: 10.1038/srep19544.
109. **Frye, R.E.,** Tippett, M., Delhey, L., Slattery, J. **Heterozygous deletion of MACROD2 is Associated with Autism Spectrum Disorder.** The North American Journal of Medicine and Science, 2016, 9(1):35-37.

110. **Frye, R.E.**, Delhey, L., Slattery, J., Tippett, M., Wynne, R., Rose, S., Kahler, S.G., Bennuri, S.C., Melnyk, S., Sequeira, J.M., Quadros, E. **Blocking and binding folate receptor alpha autoantibodies identify novel autism spectrum disorder subgroups.** *Frontiers in Neuroscience*, 2016, 10:80.
111. Hasan, K.M., Mwangi, B., Cao, B., Keser, A., Tustison, N.J., Kochunov, P., **Frye, R.E.**, Savatic, M., Soares, J. **Entorhinal Cortex Thickness across the Human Lifespan.** *Journal of Neuroimaging*, 2016, 26:278-282.
112. Celia, T., Freysteinson, W.W., **Frye, R.E.** **Concurrent Medical Conditions and Autism Spectrum Disorders.** *Pediatric Nursing*, 2016; 42(5): 230-234.
113. Niyazov D, Kahler S, Frye R **Primary Mitochondrial Disease and Secondary Mitochondrial Dysfunction: Importance of Distinction for Diagnosis and Treatment.** *Molecular Syndromology*, 2016;7(3):122-37.
114. **Frye, R.E.**, Casanova, M.F., Fatemi, S.H., Folsom, T.D., Reutiman, T.J., Brown, G.L., Martin, V., Edelson, S., Slattery, J.C., Adams, J.B. **Neuropathological mechanisms of seizures in autism spectrum disorder.** *Frontiers in Human Neuroscience*, 2016; 10:192.
115. Slattery, J., MacFabe, D.F., Kahler, S., **Frye, R.E.** **The gut microbiota and autism spectrum disorder: pathophysiological and therapeutic implications.** *Current Pharmaceutical Design*, 2016; 22(40):6107-6121.
116. **Frye, R.E.**, Rose, S., Chacko, J., Wynne, R., Bennuri, S.C., Slattery, J., Tippett, M., Delhey, L., Melnyk, S., Kahler, S.G., MacFabe, D.F. **Modulation of Mitochondrial Function By The Microbiome Metabolite Propionic Acid in Autism and Control Cell Lines.** *Translational Psychiatry*, 2016; 6(10):e927.
117. Slattery, J., MacFabe, D.F. **Frye, R.E.** **The Significance of the Enteric Microbiome on the Development of Childhood Disease.** *Clinical Medicine Insights: Pediatrics*, 2016;10:91-107..
118. **Frye, R.E.** **Identification and Treatment of Pathophysiological Comorbidities of Autism Spectrum Disorder.** *Clinical Medicine Insights: Pediatrics*, 2016; 10:43-56.
119. **Frye, R.E.**, Slattery, J., Delhey, L., Furgerson, B., Strickland, T., Tippett, M., Sailey, A., Wynne, R., Rose, S., Melnyk, S., James, S.J., Sequeira, J.M., Quadros, E.V. **Folinic acid improves verbal communication in children with autism and language impairment: a randomized double-blind placebo-controlled trial.** *Molecular Psychiatry*, 2016 Epub ahead of print.
120. Eckert MA, Berninger VW, Hoeft F, Vaden KI Jr; **Dyslexia Data Consortium.** **A case of Bilateral Perisylvian Syndrome with reading disability.** *Cortex*. 2016 Mar;76:121-4.
121. Eckert MA, Berninger VW, Vaden KI Jr, Gebregziabher M, Tsu L. **Dyslexia Data Consortium.** **Gray Matter Features of Reading Disability: A Combined Meta-Analytic and Direct Analysis Approach.** *eNeuro*. 2016 23;3(1).
122. Eckert MA, Vaden KI Jr, Maxwell AB, Cute SL, Gebregziabher M, Berninger VW; **Dyslexia Data Consortium.** **Common Brain Structure Findings Across Children with Varied Reading Disability Profiles.** *Sci Rep*. 2017 Jul 20;7(1):6009.
123. **Frye, R.E.**, Rosin, D.F., Morrison, A.R., Leon-Sarmiento, F.E. Doty, R.L. **Modulation of the ultradian human nasal cycle by sleep stage and body position.** *Arquivos de Neuro-Psiquiatria*, 2017, 75(1):9-14.
124. Chen, J.R., Lazarenko, O.P., Blackburn, M.L., Rose, S., **Frye, R.E.**, Badger, T.M., Shankar, K. **Maternal Obesity Programs Senescence Signaling and Glucose Metabolism in Osteo-Progenitors From Rat and Human,** *Endocrinology*, 2016; 157(11):4172-4183.
125. Rose, S., Wynne, R., Melnyk, S., James, S.J. **Frye, R.E.** **Mitochondrial and Redox Abnormalities in Autism Lymphoblastoid Cells: a Sibling Control Study.** *FASEB J*, 2017 Mar;31(3):904-909.
126. **Frye, R.E.**, Delhey, L., Slattery, J., Tippett, M., Wynne, R., Rose, S., Kahler, S.G., Bennuri, S.C., Melnyk, S., Sequeira, J.M., Quadros, E. **The blocking folate receptor alpha autoantibody is a novel anti- thyroid antibody in children with autism spectrum disorder.** *Journal of Neuroendocrinology*, 2017 Mar;29(3)..
127. Delhey, L., Nur Kilinc, E., Yin, L., Slattery, J., Tippett, M., Rose, S., Bennuri, S., Kahler, S., Damle, S., Legido, A., Goldenthal, M.J. **Frye, R.E.** **The Effect of Mitochondrial Supplements on Mitochondrial Activity in Children with Autism Spectrum Disorder.** *Journal of Clinical Medicine*, 2017 Feb 13;6(2). pii: E18.
128. **Frye, R.E.** **Transient Visual Loss Associated with the Factor V Leiden Mutation.** *North American Journal of Medical Sciences*, 2017;10(2):61-64..
129. Depopam, S., Ramakrishnaia, R., **Frye, R.E.** **Complex heterozygous polymerase gamma mutation and cerebral folate deficiency in a child with refractory partial status.** *Neurology India*, in press.

130. **Frye, R.E.**, Rose, S., Wynne, R., Bennuri, S.C., Blossom, S., Gilbert, K.M., Heilbrun, L., Palmer, R.F. **Trichloroacetaldehyde Hydrate-Induced Mitoplasticity in Autistic and Control Lymphoblastoid Cell Lines.** *Scientific Reports*, . 2017 Jun 30;7(1):4478.
131. Parikh, S., Goldstein, A., Karaa, A. Koenig, M.K., Anselm, I. Brunel-Guitton, C., Chinnery, P.F., Cohen, B.H. Christodolou, J., Dimmock, D., Enns, G.M., Falk, M.J., Feigenbaum, A., **Frye, R.E.** Ganesh, J., Griessemer, D., Haas, R., Horvath, R., Korson, M., Kruer, M.C., Mancuso, M., McCormack, S., Rahman, S., Reimschisel, T., Salvarinova, R., Saneto, R., Scaglia, F., Shoffner, J., Stacpoole, P., Sue, C.M., Tarnopolsky, M., Van Karnebeek, C., Wolfe, L.A., Cunningham, Z., **Patient Care Guidelines for Primary Mitochondrial Disease: A Consensus Statement from the Mitochondrial Medicine Society.** *Genetics in Medicine*, 2017 Jul 27. doi: 10.1038/gim.2017.107.
132. **Frye, R.E.**, Slattery, J., Quadros, E. **Folate metabolism abnormalities in autism: Potential biomarkers.** *Biomarkers in Medicine*, 2017, 2017 Aug 3. doi: 10.2217/bmm-2017-0109.
133. Morris, G., Puri, B.K., **Frye, R.E.**, **The putative role of environmental aluminum in the development of chronic neuropathology in adults and children. How strong is the evidence and what could be the mechanisms involved?** *Metabolic Brain Disease*, 2017 Jul 27. doi: 10.1007/s11011-017-0077-2.
134. Morris, G., Puri, B.K., **Frye, R.E.**, **The putative role of environmental mercury in the pathogenesis and pathophysiology of autism spectrum disorders and subtypes** *Molecular Neurobiology*, 2017 Jul 22. doi: 10.1007/s12035-017-0692-2.
135. Khemakhem, A.M., **Frye, R.E.**, El-Ansary, A., Al-Ayadhi, L., Ben Bacha, B. **Novel biomarkers of metabolic dysfunction in autism spectrum disorder: Potential for biological diagnostic markers.** *Metabolic Brain Disease*, 2017 Aug 22. doi: 10.1007/s11011-017-0085-2.
136. Delhey, L., Nur Kilinc, E., Yin, L., Slattery, J., Tippett, M., Rose, S., Bennuri, S., Kahler, S., Damle, S., Legido, A., Goldenthal, M.J. **Frye, R.E.** **Bioenergetic variation is related to autism symptomatology.** *Metabolic Brain Disease*, 2017 Aug 29. doi: 10.1007/s11011-017-0087-0.
137. Rose, S., Bennuri, S.C., Murray, K.F., Buie, T., Winter, H., **Frye, R.E.**, **Mitochondrial Dysfunction in the Gastrointestinal Mucosa of Children with Autism: A blinded case-control study.** *PLOS One*, in press.
138. Hamdan, F.F., Myers, C., Lemay, P., Spiegelman, D. Laporte, A.D., Nassif, C., Monlong, J., Cadieux-Dion, M., Dobrzyniecka, S., Meloche, C., Retterer, K., Cho, M.T., Rosenfeld, J.A., Bi, W., Massicote, C., Miguet, M., Brunga, L., Brigid, R., Mo, K., Tam, C., Schneider, A., Hollingsworth, G., DDD study, Fitzpatrick, D.R., Donaldson, A., Canham, N., Blair, E., Kerr, B., Fry, A.E., Thomas. R.H., Shelagh, J., Hurst, J.A., Brittain, H., Blyth, M., Lebel, R.R., Gerkes, E.H., Davis-Keppen, L., Stein, Q., Chung, W.K., Dorison, S.J., Benke, P.J., Fassi, E., Janssen-Corsten, N., Kamsteeg, E-J., Herman, G., Albert, D.V.F., Venkateswaran, S., Warex, T., Jonesy, D., Liuz, Y-C., Mohammad, S., Williamstobeconf, S., Bizargity, P., Bacino, C.A., Blumkin, L., Wierenga, K.J., O'Byrne, J.J., Stockler, S., Lehman, A., Keren, B., Nougues, M-C., Mignot, C., Auvin, S., Nava, C., Cooper, G.M., Hiatt, S., Bebin, M.E., Shao, Y., Scaglia, F., Lalani, S.R. **Frye, R.E.**, Jarjour, I.T., Jacques, S., Boucher, R-M., Riou, E., Srouf, M., Carmant, L., Lortie, A., Major, P., Diadori, P., Dubeau, F., D'Anjou, G. Bourque, G., Sadleir, L., Campeau, P.M., Kibar, Z., Lafrenière, R.G., Girard, S.L., Mahmutoglu, S., Boelman, C., Andrade, D.M., Rouleau, G.A., Cossette, P., Scheffer, I.E., Mefford, H.C., Rossignol, E., Minassian, B.A., Michaud, J.L. **Spectrum of de novo mutations in epileptic encephalopathies.** *American Journal of Medical Genetics*, 2017 Jul 27. doi: 10.1038/gim.2017.107.
139. Burger, B.J., Rose, S., Bennuri, S.C., Gill, P.S., Tippett, M.L., Melnyk, S., **Frye, R.E.** **Autistic siblings with novel mutations in two different genes: Insight for genetic workups of autistic siblings and connection to mitochondrial dysfunction.** *Front. Pediatr. Genetic Disorders*, 2017 Oct 12, doi: 10.3389/fped.2017.00219.
140. Rose, S., Bennuri, S.C., Davis, J., Wynne, R., Slattery, J., Tippett, M., Delhey, L., Melnyk, S., Kahler, S.G., MacFabe, D.F., **Frye, R.E.** **Butyrate Enhances Mitochondrial Function in Cells Under Physiological Stress.** *Translational Psychiatry*, in revision.
141. **Frye, R.E.**, Nankova, B., Bhattacharyya, S., Rose, S., Bennuri, S.C., MacFabe, D.F. **Modulation of immunological pathways in lymphoblastoid cell lines by the enteric microbiome metabolite propionic acid.** *Frontiers in Immunology, Microbial Immunology*, under review.
142. Hendrix, R.D., Wang, W., Phanavanh, B., Walters, J. Odle, A.K., Rose, S., **Frye, R.E.**, Childs, G.V., Barger S.W. **Amyloid precursor protein is essential for the development of metabolic perturbations caused by high-fat, high-sucrose diet.** in revision
143. Desai, A., Sequeira, J.M., Friedson, B., **Frye, R.E.**, Ramaekers, V.T., Quadros, E.V. **Characterization of Folate Receptor autoantibodies in Autism Spectrum Disorders,** in revision.

Publications: Letters to the Editor

144. Rossignol, D., **Frye, R.E.** **Substantial problems with measuring brain mitochondrial dysfunction in autism spectrum disorder using magnetic resonance spectroscopy.** Journal of Autism and Developmental Disorders, 2012 Apr;42(4):640-2; author reply 643-6.
145. **Frye, R.E.**, Rossignol, D. **Response to meta-analysing the effectiveness of melatonin for sleep-disturbed individuals with autism spectrum conditions: should Rett syndrome be included?** Developmental Medicine and Child Neurology, 2011 Nov;53(11):1063; author reply 1064. doi: 10.1111/j.1469-8749.2011.04071.x.

Publications: Editorials

146. **Frye, R.E.** **Advanced anatomic, function, effective and network neuroconnectivity techniques.** Computers in Biology and Medicine, 2011 Dec;41(12):1058-61. doi: 10.1016/j.compbiomed.2011.10.006.
147. **Frye, R.E.**, Rossignol, D. **Mitochondrial and Metabolic Abnormalities in Neurodevelopmental Disorders.** Journal of Pediatric Biochemistry, 2012 Dec; 4(2):177-180.
148. **Frye, R.E.**, Slattery, J. **The Microbiome in Autism Spectrum Disorder.** Microbial Ecology in Health and Disease, 2015 May 7;26:28168. doi: 10.3402/mehd.v26.28168. eCollection 2015. PubMed PMID: 25956239; PubMed Central PMCID: PMC4425811.
149. **Frye, R.E.** **The medical basis of autism spectrum disorder: Clues for treatment and improving the lives of the entire family.** Pediatric Dimensions, 2016, 1(5):116-119.

Publications: Commentary and Correspondence

150. **Frye, R.E.** **Mitochondrial dysfunction and myoclonic epilepsy: cause or effect or both.** Journal of Child Neurology, 2011 Oct;26(10):1332-4.
151. **Frye, R.E.** **Advances and limitations in our knowledge of cortical reorganization in cerebral palsy.** Developmental Medicine and Child Neurology, 2012 Apr;54(4):298-9. doi: 10.1111/j.1469-8749.2011.04157.x.
152. Rose, S., **Frye, R.E.**, Slattery, J., Melnyk, S., Wynne, R., Tippett, M., James, S.J. **Corrigendum: Oxidative Stress Induces Mitochondrial Dysfunction in a Subset of Autism Lymphoblastoid Cell Lines.** Translational Psychiatry, 2015 Mar 10;5:e526. doi: doi:10.1038/tp.2015.29.
153. **Frye, R.E.** **RASopathies: a window into the molecular mechanisms underlying neurodevelopmental disorders.** Developmental Medicine and Child Neurology, 2015 Apr;57(4):315-6. doi: 10.1111/dmnc.12626. Epub 2014 Nov 18. PubMed PMID: 25403734.
154. **Frye, R.E.**, Slattery, J., Kahler, S.G. **Beyond Genetics in Autism.** Autism Research Review International, 2015 29 (3):
155. **Frye, R.E.**, Slattery, J.C. **The potential role of Nitrous Oxide in the Etiology of Autism Spectrum Disorder.** Translational Psychiatry, 2016, 2016 May 17;6:e812.
156. Rossignol, D.A., **Frye, R.E.** **Environmental toxicants and autism spectrum disorder.** Psychiatric Times, 2016 Sep 30..

Publications: Original Papers in Proceedings

157. **Frye, R.E.**, Mester, A. Deems, D.A. & Doty, R.L. **A comparison of mathematical models of nasal pressure-flow data and the contribution of compliant and inertial parameters.** Proceedings of the Annual International Conference on the IEEE Engineering in Medicine and Biology Society, 11:304-5, 1989.
158. **Frye, R.E.**, Doty, R.L., Mester, A., Platt, K. & Gonzalez, J. **Mathematical models of the nasal airway: Ability to discriminate between normal and abnormal static resistive components.** Proceedings of the Sixteenth Annual Northeast Bioengineering Conference, 117-8, 1990.
159. **Frye, R.E.** **New mathematical models of the non-linear rhinomanometric pressure-flow curve.** Proceedings of the Thirteenth Annual Southern Biomedical Engineering Conference, 1003-4, 1994.
160. **Frye, R.E.** & Ledley, R.S. **Enhancement of Lung Nodules Through Stereo Image Processing.** Proceedings of the Sixteenth Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 1994.
161. **Frye, R.E.** & Ledley, R.S. **A Step Towards Improving Transparent Image Processing: Extraction of Non-Transparent Regions by Variable Length Pattern Correspondence From Stereo Image Pairs.** Proceedings of the Fifteenth Southern Biomedical Engineering Conference, 285-88, 1996

162. **Frye, R.E.** & Ledley, R.S. **A Theoretical Analysis of Stereo Vision Mechanisms of the Visual Cortex: Derivative of Gaussian Functions as Disparity Filters**, Proceedings of the Fifteenth Southern Biomedical Engineering Conference, 270-3, 1996.
163. **Frye, R.**, Wu MH, Zouridakis G. **Dynamic Autoregressive Neuromagnetic Causality Imaging (DANCI)**. Proceedings of the 11th WSEAS International Conference on Computers, Crete, Greece, 2007.
164. **Frye, R.** **The Empirical Type I Error of Dynamic Statistical Parameter Mapping**. Proceedings of the 6th International Symposium on Noninvasive Functional Source Imaging of the Brain and Heart and the International Conference on Functional Biomedical Imaging, Hangzhou, China, 2007
165. **Frye, R.**, Wu MH, Zouridakis G., Liederman, J. **Causal Prefrontal-Temporoparietal Interactions are Correlated with Word-Rhyming Performance in Reading Disabilities**. Biomagnetism: Interdisciplinary Research and Exploration. Proceedings of Biomag 2008, Sapporo, Japan, 2008.
166. Li, H., Xue, Z., Ellmore, T.M., **Frye, R.E.** Wong, S.T. **Identification of faulty DTI-based subnetworks in autism using network regularized SVM**. International Symposium on Biomedical Imaging, Barcelona, Spain, 2012.
167. Li, H., Xue, Z., Ellmore, T.M., **Frye, R.E.** Wong, S.T. **Analyzing grey matter diffusivity of autism in the context of white matter connectivity**. International Symposium on Biomedical Imaging, San Francisco, CA, 2013.

Publications: Invited Articles

168. **Frye, R.E.**, Donner, E., Golja, A., Rooney, C.M. **Folnic-acid-responsive seizures presenting as breakthrough seizures in a 3-month-old boy**. Search on Epilepsy. 11(3):16-17, 2004
169. **Frye, R.E.** **Brain reorganizing in developmental disorders: Parallels between dyslexia and autism**. The Autism File, 30:81-3, 2009.
170. **Frye, R.E.**, Poling, J.S. **Mitochondrial Dysfunction in Autism**. The Autism File, 31:94-97.
171. **Frye, R.E.** **Seizures and Autism: A Brief Overview**. The Autism File, 31:97.
172. **Frye, R.E.**, Rossignol, D. **Cerebral folate deficiency in autism spectrum disorder**. Autism Science Digest, 2012 Jan 10. doi: 10.1038/mp.2011.175.
173. Rossignol, D., **Frye, R.E.** **Mitochondrial dysfunction and autism spectrum disorders: a simplified approach**. Autism Science Digest, 2011.
174. Rossignol, D., **Frye, R.E.** **The Folate Factor**. The Autism File, 2011.
175. **Frye, R.E.**, Casanova, M., Brown, G.L., Martin, V., Edelson, S., Lewine, J., Rossignol, D., Slattery, J., Adams, J.B. **A Consensus Statement from the Elias Tembenis Seizure Think Tanks**. Autism Science Digest, 2012.
176. **Frye, R.E.**, Slattery, J., Adams, J.B. **Seizures in Autism Spectrum Disorder: Symptoms, Assessment, and Treatment**. The Autism File, 2016, in press.
177. **Frye, R.E.** **Mitochondrial Dysfunction in Autism Spectrum Disorder: Diagnosis and Treatment** The Autism File, 2016 in press
178. **Frye, R.E.** **Treatment of Central Folate Abnormalities in Children with Autism**. The Autism File, Feb-Mar 2017.
179. **Frye, R.E.** Rose, S. **Metabolic Abnormalities May Be Diagnostic For Autism**. The Autism File, 2017 in press.

Publications: Book Chapters in Print

180. **Frye, R.E.**, Doty, R.L. & Shaman, P. **Bilateral and unilateral olfactory sensitivity: Relationship to handedness, gender and nasal resistance**. In R.L. Doty & D. Muller-Schwarze (Eds.), Chemical Signals in Vertebrates VI, 559-64, 1992.
181. **Frye, R.E.** & Doty, R.L. **The influence of ultradian autonomic rhythms as indexed by the nasal cycle on unilateral olfactory thresholds**. In R.L. Doty & D. Muller-Schwarze (Eds.), Chemical Signals in Vertebrates VI, 595-8, 1992.
182. Ledley, R.S. & **Frye, R.E.** **Processing of stereo image pairs: Elimination of depth planes using the 'Cut-Plane' procedure**. In Stereoscopic Displays and Virtual Reality Systems, International Society for Optical Engineering, 2177:66-77, 1994.
183. **Frye, R.E.** **Airway Dynamics and Olfactory Function**. In (Ed) Doty, R. Handbook of Clinical Olfaction and Gustation, Section II: Olfaction, Sub-Section C: Clinical Applications and Perspectives, Marcel Dekker, Inc., New York, pp. 471-91, 1995.

184. **Frye, R.E. Nasal Patency and the Aerodynamics of Nasal Airflow: Measurement by Rhinomanometry and Acoustic Rhinometry, and Influence of Vasoactive Drugs.** In (Ed) Doty, R., Handbook of Clinical Olfaction and Gustation, 2nd Edition, Section II: Olfaction, Sub-Section C: Clinical Applications and Perspectives, Marcel Dekker, Inc., New York, pp. 439-59, 2003.
185. **Frye, R.E. Autism.** In (Ed) Carney, P.R. and Geyer, J.R. Pediatric Practice: Neurology, McGraw-Hill, New York, NY, in press.
186. **Frye, R.E. Mitochondrial disease treatments for autism.** In Cutting Edge Therapies for Autism, 1st Edition, Skyhorse Publishing, New York, 2010.
187. **Frye, R.E. Antiepileptic drug treatments for autism.** In Cutting Edge Therapies for Autism, 1st Edition, Skyhorse Publishing, New York, 2010.
188. **Frye, R.E. Antiepileptic treatments.** In Cutting Edge Therapies for Autism, 2nd Edition, Skyhorse Publishing, New York, 2011.
189. **Frye, R.E. Treatments for Mitochondrial Dysfunction.** In Cutting Edge Therapies for Autism, 2nd Edition, Skyhorse Publishing, New York, 2011.
190. **Frye, R.E. Antiepileptic treatments.** In Cutting Edge Therapies for Autism, 3rd Edition, Skyhorse Publishing, New York, 2012.
191. **Frye, R.E. Treatments for Mitochondrial Dysfunction.** In Cutting Edge Therapies for Autism, 3rd Edition, Skyhorse Publishing, New York, 2012.
192. **Frye, R.E. Rossignol, D. Cerebral Folate Deficiency in Autism Spectrum Disorders.** In Cutting Edge Therapies for Autism, 3rd Edition, Skyhorse Publishing, New York, 2012.
193. Rossignol, D.A., **Frye, R.E. Mitochondrial Dysfunction in Psychiatric Disorders.** In Studies on Psychiatric Disorders, Eds Dietrich-Muszalska, A., Grignon, S., Chauhan, V., Springer, Inc., New York, NY, 2015
194. Zhao, K., **Frye, R.E. Nasal Patency and the Aerodynamics of Nasal Airflow in Relation to Olfactory Function.** In (Ed) Doty, R., Handbook of Clinical Olfaction and Gustation, 3rd Edition, Marcel Dekker, Inc., New York, in press.
195. **Frye, R.E. Bernard Rimland's Infantile Autism: Relevance to Modern Biomarker of Autism.** In Rimland, B. Infantile Autism: The Syndrome and Its Implication for a Neural Theory of Behavior. 50th Anniversary Edition, 2014
196. **Frye, R.E., Kahler, S. Approach to the diagnosis of the inborn errors of metabolism associated with epilepsy and their clinical genetics.** In Causes of Epilepsy Eds S. Shorvon, Guerrini, R., Schachter, S., Trinka, E., Cambridge University Press
197. **Frye, R.E. Introduction.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand.
198. **Frye, R.E. Introduction to Basic Sciences.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
199. **Frye, R.E. The Effect of N-Acetyl Cysteine on Apoptosis.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
200. **Frye, R.E. Introduction to Clinical Studies.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
201. **Frye, R.E. The Clinical Use of N-Acetylcysteine for the Treatment and Protection Against Renal Disease.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
202. Marenco, J.P. **Frye, R.E. The Clinical Use of N-Acetylcysteine in Cardiology.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
203. Slattery, J. **Frye, R.E. Application of N-Acetylcysteine in Psychiatric Disorders: An Update.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
204. **Frye, R.E. The Clinical Use of N-Acetylcysteine in Gastrointestinal Disorders.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
205. **Frye, R.E. The Physiologic and Pharmacology of N-Acetylcysteine in Medicine.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand

206. **Frye, R.E. The Clinical Use of N-Acetylcysteine in Other Medical Disorders.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
207. **Frye, R.E. The Safety and Tolerability of N-Acetylcysteine.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
208. **Frye, R.E. Clinical Formulations of N-Acetylcysteine.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand
209. **Frye, R.E. Clinical Recommendation of the Use of N-Acetylcysteine in Medicine.** In The Therapeutic Use of N-Acetyl Cysteine in Medicine Eds Frye, R.E., Berk, M., Adis Books, Springer Healthcare, Auckland, New Zealand

Publications: Book Sections in Print

210. **Frye, R.E.,** Rezaie, R., Papanicolaou, A., Maestu, F., Fernandez, A., Aine, C., Bowyer, S., Eswaran, H., Wakai, R. **Postscript: Future Applications of Clinical MEG.** In (Ed) Papanicolaou, A. *Clinical MEG.* Cambridge University Press, New York, NY, 2009.
211. **Frye, R.E. Forward.** No Map to This Country: One Family's Journey Through Autism by Jennifer Noonan, 2016, Da Capo Lifelong Books, Boston MA.
212. **Frye, R.E. Forward.** The Environmental and Genetic Causes of Autism by James Lyons-Weiler, 2016, Skyhorse Publishing, New York NY.

Publications: Books

213. **Frye, R.E.,** Berk, M. **The Therapeutic Use of N-Acetyl Cysteine in Medicine.** Adis Books, Springer Healthcare, Auckland, New Zealand. In Preparation

Publications: Guide Books

214. Adams, J.B., Dietert, R., Freedenfeld, S., **Frye, R.E.,** Green, J., Hamilton, D., Heilbrun, L., Huberty, J., Kobliner, V., Laake, D., Lein, P.J., Lipski, E., McDonough-Means, S., Mitchell, J., Palmer, R., Naviaux, R.K., O'Hara, N., Records, K., Willhite, C. **The Healthy Child Guide: Preconception and Pregnancy Recommendations for a Health Child.** The Neurological Health Foundation, Dallas, TX January 2016.
215. Adams, J.B., Pollard, E.L., Perez, L.M., Dietert, R.R., **Frye, R.E.,** Green, J.A., Hamilton, D., Heilbrun, L.P., Huberty, J., Kobliner, V., Laake, D.G., Mitchell, J., Palmer, R.F., Records, K., Willhite, C., Kenney, L. **The Science Behind the Healthy Child Guide,** The Neurological Health Foundation, Dallas, TX April 2016

Publications: Theses

216. **Frye, R.E. An exploration of methods for evaluating the usefulness of new and existing aerodynamic equations in detecting nasal airway disease.** Master thesis, Drexel University, Philadelphia, Pa, 1992.
217. **Frye, R.E. Computational Models of Stereo Vision with Applications to Optimal Stereo X-ray Imaging.** Ph.D. thesis, Georgetown University, Washington, DC, 1998.

Manuals

218. Slattery, J., Delhey, L. **Frye, R.E. Manual of Procedures. A Folinic acid intervention for ASD: links to folate receptor- α autoimmunity & redox metabolism.** Arkansas Children's Hospital Research Institute, Little Rock AR

Publications: Book Chapters Online

Authored or Co-authored in (Eds) Altschuler et al., *Medicine, Surgery, and OB/GYN: An On-line Medical Reference,* St. Petersburg. Emedicine Online Textbooks. Emedicine.com, Inc., 2002-2013.

219. **Bacterial Overgrowth Syndrome**
220. **Gastroenteritis, Bacterial**
221. **Pyridoxine Deficiency**
222. **Pyruvate Carboxylase Deficiency**
223. **Pyruvate Kinase Deficiency**
224. **Hyperammonemia-hyperornithinemia-homocitrullinemia Syndrome**

Authored or Co-authored in (Eds) Altschuler et al., Pediatrics: An On-line Medical Reference, St. Petersburg. Emedicine Online Textbooks. Emedicine.com, Inc., 2002-2013.

- 225. **Diarrhea**
- 226. **Human Immunodeficiency Virus Infection**
- 227. **Lactose Intolerance**
- 228. **Malabsorption Syndromes**
- 229. **Porphyria, Acute**
- 230. **Porphyria, Cutaneous**
- 231. **Pyruvate Dehydrogenase Complex Deficiency**
- 232. **Pyruvate Carboxylase Deficiency**

Publications: Blogs

- 233. **Frye, R.E.** Folic Acid and Pregnancy in the Prevention of Autism. Talking About Curing Autism. Feb 18 2013
- 234. **Frye, R.E.** Missing Genes, Environment, or Both: How Genetic and Environmental Factors Can Interplay to Cause Autism. Talking About Curing Autism. Oct 23, 2013
- 235. **Frye, R.E.,** Rose, S., James, S.J. **Study Links Oxidative Stress Induced Mitochondrial Dysfunction to Autism.** Talking About Curing Autism. Jan 13 2014.
- 236. **Frye, R.E.** New Abnormalities Found in the Autistic Brain. Talking About Curing Autism. April 2014
- 237. **Frye, R.E.,** Slattery, J., Kahler, S.G. **Autism: From Behavior to Biology.** Huffington Post. July 7 2015.
- 238. **Frye, R.E.** Study Suggests the Medical Nature of Autism Leads to Early Mortality. Talking About Curing Autism.
- 239. **Frye, R.E.,** Rossignol, D.A. **Improving the lives of children with autism through medical science.** Clinical Medicine Insights: Pediatrics
- 240. **Frye, R.E.,** Slattery, J., Rossignol, D.A. **A blood test that predicts autism has implications for treatment and prevention.** Talking About Curing Autism.

Publications: Abstracts in Journals

- 241. **Frye, R.E.** Abnormal biomarker of energy metabolism in children with autism, Mitochondrion, 2010, 10(2):231
- 242. Rose, S., Melnyk, S., **Frye, R.E.,** James, S.J. **Increased susceptibility to reactive oxygen species in autism lymphoblastoid cells is mediated by mitochondrial dysfunction** Mitochondrion 2012 12(5): 562
- 243. **Frye, R.E.,** Rose, S., James, S.J. **Children with mitochondrial disease and autism have alterations in pathways involved in response to endogenous and exogenous stressors** Mitochondrion 2012 12(5):558
- 244. **Frye, R.E.,** Rose, S., Slattery, J., Wynne, R., Tippett, M., Melnyk, S., James, S.J. **Mitochondrial dysfunction in immune cells derived from children with autism spectrum disorder (ASD): A unique metabolic endophenotype of children with ASD** Mitochondrion 2013 13(6):910
- 245. **Frye, R.E.,** Damle, S., Goldenthal, M.J. **Respiratory complex I and IV dysfunction is associated with Phelan–McDermid syndrome** Mitochondrion, 2013 13(6):912-913.
- 246. **Frye, R.E.,** Kahker, S.G., Slattery, J., Rose, S. James, S.J. **Treatable metabolic disorders associated with autism.** Molecular Genetics and Metabolism, 2014 111(3):287

Other Professional Communications: Scientific Conference Presentations

- 1. Doty, R.L., **Frye, R.,** Hartikka, R. & Londa, B. **Relationship between olfactory sensitivity and nasal airway resistance during alternate phases of the nasal cycle.** Association for Chemoreception Sciences, Sarasota, Florida, 1985 (Platform).
- 2. Agrawal, U., Doty, R.L. & **Frye, R.E.** **Internal consistency reliability of the fractionated and whole University of Pennsylvania Smell Identification Test.** Association for Chemoreception Sciences, Sarasota, Florida, 1989 (Poster).
- 3. Deems, D.A., Doty, R.L., **Frye, R.E.,** Pelberg, R. & Shapiro, A. **Olfactory sensitivity, nasal resistance, autonomic function in patients with multiple chemical sensitivities.** Association for Chemoreception Sciences, Sarasota, Florida, 1989 (Poster).
- 4. Schwartz, B., Doty, R.L., **Frye, R.E.** Monroe, C. & Barker, S. **Alterations in olfactory function in industrial chemical workers exposed to ethyl acrylate.** Association for Chemoreception Sciences, Sarasota, Florida, 1989 (Platform).

5. **Frye, R.E.**, Mester, A. Deems, D.A. & Doty, R.L. **A comparison of mathematical models of nasal pressure-flow data and the contribution of compliant and inertial parameters.** IEEE Engineering in Medicine and Biology Society, 1989 (Platform).
6. Kreiss, D.S., Doty, R.L. & **Frye, R.E.** **Human odor perception: Correlation with frog epithelial adenylate cyclase activity and transepithelial voltage response.** Association for Chemoreception Sciences, Sarasota, Florida, 1990 (Poster).
7. **Frye, R.E.**, Doty, R.L., Mester, A., Platt, K. & Gonzalez, J. **Mathematical models of the nasal airway: Ability to discriminate between normal and abnormal static resistive components.** IEEE Northeast Bioengineering Conference, 1990 (Platform).
8. **Frye, R.E.** & Doty, R.L. **The nasal cycle: Relationship to ultradian rhythms and unilateral olfactory threshold.** Association for Chemoreception Sciences, Sarasota, Florida, 1991 (Platform).
9. **Frye, R.E.**, Doty, R.L. & Shaman, P. **Asymmetric olfactory function: Relationship to handedness, gender and nasal resistance.** Association for Chemoreception Sciences, Sarasota, Florida, 1991 (Platform).
10. **Frye, R.E.**, Doty, R.L., & Shaman, P. **Bilateral and unilateral olfactory sensitivity: Relationship to handedness, gender and nasal resistance.** Chemical Signals in Vertebrates, 1991 (Platform).
11. **Frye, R.E.** & Doty, R.L. **The influence of ultradian autonomic rhythms as indexed by the nasal cycle on unilateral olfactory thresholds.** Chemical Signals in Vertebrates, 1991 (Platform).
12. **Frye, R.E.**, Valle, A. & Doty, R.L. **Several Nasal Respiratory Rhythms Are Associated With Unilateral Olfactory Sensitivity.** Association for Chemoreception Sciences, Sarasota, Florida, 1992 (Platform).
13. Ledley, R.S. & **Frye, R.E.** **Processing of stereo image pairs: Elimination of depth planes using the 'cut-plane' procedure.** The Society for Imaging Science and Technology and the International Society for Optical Engineering Symposium on Electronic Imaging Science and Technology, 1994 (Platform).
14. **Frye, R.E.** & Ledley, R.S. **Enhancement of lung nodules through stereo image processing.** IEEE Engineering in Medicine and Biology Society, 1994 (Platform).
15. **Frye, R.E.**, Polling, J.S. & Vicini, S. **Noise fluctuation analysis of pineal delayed rectifier channels and modification by the blocker Docosahexaenoic acid.** Society for Neuroscience, 1994 (Platform).
16. **Frye, R.E.** **Stereo mammographic image processing: Improving diagnostic quality by removing obscuring image features.** Society for Experimental Biology and Medicine District of Columbia Section Annual Student Symposium, 1995 (Platform).
17. **Frye, R.E.** & Ledley, R.S. **A Step Towards Improving Transparent Image Processing: Extraction of Non-Transparent Regions by Variable Length Pattern Correspondence From Stereo Image Pairs,** Fifteenth Southern Biomedical Engineering Conference, 1996 (Platform)
18. **Frye, R.E.** & Ledley, R.S. **A Theoretical Analysis of Stereo Vision Mechanisms of the Visual Cortex: Derivative of Gaussian Functions as Disparity Filters,** Fifteenth Southern Biomedical Engineering Conference, 1996 (Platform).
19. **Frye, R.E.**, Ascher, S. & Thomasson, D. **Magnetic Resonance Hysterosalpingography (MRHSG): Sequence Optimization and Demonstration of Simulated Normal and Abnormal Tubal Conspicuity.** Radiological Society of North America, 1997 (Platform).
20. **Frye, R.E.** & Ledley, R.S. **Stereo mammographic image enhancement: Variable length correspondence matching of non-superimposed image regions.** Radiological Society of North America's Eighty, 1997 (Platform).
21. **Frye, R.**, DuPlessus, A., Soul, J. **Hypercoagulable States Associated with Transient Visual Neurologic Disturbance.** Child Neurology Society, 31th Annual Meeting, 2002. (Poster).
22. Anselm, I., **Frye, R.E.**, Marsden, D., Volpe J.J. **Defective Mitochondrial Energy Metabolism in Creatine Transporter 1 Deficiency.** Child Neurology Society, 32th Annual Meeting, 2003 (Poster).
23. Liederman, J., McGraw Fisher J., Coty, A., Alexander, R., Matthies, M. and **Frye, R.** **Reduction Of The Phonemic Restoration Illusion In Adults With Reading Disability (RD).** Society of Neuroscience, 2003 (Poster).
24. McGraw Fisher, J., Liederman, J., Coty, A., Alexander, R., Matthies, M., and **Frye, R.** **Sex Differences in the Occurrence of the Phonemic Restoration Illusion.** Society of Neuroscience Meeting, 2003 (Poster).
25. **Frye, R.E.**, McGraw Fisher, J., Liederman, J., Halgren, E., Dale, A. **Dynamic Cortical Activation During Phoneme Discrimination.** Biomag 2004 (Poster).
26. **Frye, R.E.**, McGraw Fisher, J., Liederman, J., Halgren, E. **Abnormal Dynamic Cortical Activation During Phoneme Discrimination in Dyslexic Readers.** International Dyslexia Association 55th Annual Conference, 2004 (Platform).

27. Liederman, J., McGraw Fisher, J., Coty, A., Matthies, M., Alexander, R., Mathews, G. and **Frye, R.** **The Use Of Context Information To Disambiguate Noisy Speech Signals: Deficits In Adults With Reading Disability.** International Dyslexia Association 55th Annual Conference, 2004 (Poster).
28. **Frye, R.**, Liederman, J., McGraw-Fisher, J., Halgren, and E., Dale, A. **Phoneme Prototypicality Modulates Lateralization of Cortical Activation.** Cognitive Neuroscience Society Annual Meeting, New York NY 2005 (Poster).
29. McGraw-Fisher, J., **Frye, R.**, Liederman, J., Halgren, and E., Dale, A. **Dynamic Spatiotemporal Interactions Between the Visual Word Form Area and the Temporal Lobe During Phonological Decoding.** Cognitive Neuroscience Society Annual Meeting, New York NY 2005 (Poster).
30. **Frye, R.**, Liederman, J., McGraw-Fisher, J., Halgren, and E., Dale, **Cortical Dynamics of Phonological Processing in Dyslexic and Normal Readers.** International Dyslexia Association, 2005 (Platform)
31. **Frye, R.**, McGraw Fisher, J., Coty, A., Zarella, M., Liederman, J. Halgren, E. **Hemispheric differences in the coding of voice onset time (VOT) revealed by magnetoencephalography (MEG).** Society of Neuroscience Meeting, Washington DC 2005 (Poster).
32. **Frye, R.**, McGraw Fisher, J., Coty, A., Zarella, M., Liederman, J. Halgren, E. **Hemispheric Differences in Voice Onset Time Coding.** International Neuropsychological Society, Boston MA 2006 (Poster).
33. **Frye, R.**, McGraw Fisher, J., Coty, A., Liederman, J. Halgren, E. **Dyslexic Readers Fail to Use Large Scale Neural Network During Phonological Decoding.** International Neuropsychological Society, Boston MA 2006 (Platform).
34. **Frye, R.**, McGraw Fisher, J., Ahlfors, S., Halgren, E. and Liederman, J. **Dyslexia: An Example of Natural Variation in Large-Scale Neural Network Organization.** Center for Discrete Mathematics and Theoretical Computer Science Conference on Data Mining, Systems Analysis and Optimization in Neuroscience, Gainesville FL 2006 (Platform).
35. Seref, O., Cifarelli, C., Ding, M., **Frye, R.E.** and Pardalos, P.M. **Kernel Based Methods Applied to Single Trial Neural Signals.** Center for Discrete Mathematics and Theoretical Computer Science Conference on Data Mining, Systems Analysis and Optimization in Neuroscience, Gainesville FL 2006 (Platform).
36. Zhang, Y., **Frye, R.E.** and Ding, M. **MEG in Dyslexia: A Power and Coherence Study.** Center for Discrete Mathematics and Theoretical Computer Science Conference on Data Mining, Systems Analysis and Optimization in Neuroscience, Gainesville FL 2006 (Platform).
37. **Frye, R.**, McGraw Fisher, J., Coty, A , Liederman, J. and Halgren, E. **Patterns of Recurrent Cortical Activation in Response to Consonant-Vowel Syllables.** International Conference on Cognitive and Neural Systems, Boston MA 2006 (Platform)
38. **Frye, R.**, McGraw Fisher, J., Coty, A , Liederman, J. and Halgren, E. **Consonant-Vowel Syllables Induce Multiple Resonant Cortical Interactions,** International Neuropsychological Society, Zürich Switzerland 2006 (Platform)
39. **Frye, R.**, McGraw Fisher, J., Coty, A , Ahlfors, S., Halgren, E., Papanicolaou, A. and Liederman, J. **Organization of large-scale spatiotemporal networks in young adults with a history of dyslexia.** International Society for Brain Electrotomography, Chieti Italy 2006 (Platform)
40. **Frye, R.E.**, Witzel, T., Ahlfors, S., Hamalainen, M., Liederman, J., Papanicolaou, A. and Halgren, E. **Dynamic connectivity during syllable perception revealed by Granger causality.** International Society for Brain Electrotomography, Chieti Italy 2006 (Platform)
41. **Frye, R.**, McGraw Fisher, J., Coty, A., Zarella, M., Liederman, J. Halgren, E. **Granger causality for realizing the structure of recurrent cortical networks in magnetoencephalography data,** Society of Neuroscience, Atlanta GA 2006 (Platform).
42. **Frye, R.E.** **Applications of Granger causality in magnetoencephalography.** Houston Society for Engineering in Medicine and Biology, Houston TX 2007 (Platform).
43. **Frye, R.**, Liederman, J., McGraw Fisher, J., Coty, A. and Halgren, E. **Dynamics of cortical interaction during syllable perception.** International Conference on Cognitive and Neural Systems, Boston MA 2007 (Platform)
44. **Frye, R.**, Liederman, J., McGraw Fisher, J., Coty, A. and Halgren, E. **Visualizing neural connectivity with dynamic causality imaging** International Conference on Cognitive and Neural Systems, Boston MA 2007 (Poster)
45. **Frye, R.**, Wu MH, Zouridakis G. **Dynamic Autoregressive Neuromagnetic Causality Imaging (DANCI).** WSEAS International Conference on Computers, Crete Greece 2007 (Platform).

46. **Frye, R. The Empirical Type I Error of Dynamic Statistical Parameter Mapping.** International Symposium on Noninvasive Functional Source Imaging of the Brain and Heart and the International Conference on Functional Biomedical Imaging, Hangzhou China 2007 (Platform)
47. **Frye, R.,** Wu MH, Zouridakis G., , McGraw Fisher, J., Liederman, J. Halgren, E. **Changes in cortical connectivity in young adults with a history of reading disability.** Society of Neuroscience Meeting, San Diego CA 2007 (Platform).
48. **Frye, R.,** Landry, S., Swank, P., Smith, K. **Neuropsychological Characteristics Associated with Reading Ability in Full Term and Prematurely Born Adolescents,** International Neuropsychological Society Meeting, Hawaii HI 2008 (Poster).
49. **Frye, R.,** Novak, B. Malmberg, B., Strickland, D., Liederman, J. **Context Dependent Impulsivity in Young Adults with Compensated Reading Disability,** International Neuropsychological Society Meeting, Hawaii HI 2008 (Poster).
50. Wu, M., **Frye, R.E.,** Zouridakis, G. **Probability-based Granger Causality: Changes in Connectivity with Application of a Statistical Threshold.** Houston Society for Engineering in Medicine and Biology, Houston TX 2008 (Poster).
51. **Frye, R.E.,** Liederman, J., Malmberg, B., Strickland, D., Papanicolaou, A. **Common and Unique Mechanisms for Phonological Decoding Real-words and Non-words,** Human Brain Mapping, Melbourne Australia 2008. (Poster)
52. **Frye, R.,** Wu MH, Zouridakis G., Liederman, J. **Causal Prefrontal-Temporoparietal Interactions are Correlated with Word-Rhyming Performance in Reading Disabilities.** Biomag Sapporo Japan 2008 (Poster).
53. Beauchamp, M.S., Yasar, N.E., **Frye, R.E.,** Ro, T. **Touch, Sound and Vision in Human Superior Temporal Sulcus.** Society of Neuroscience Meeting, 2008 (Poster).
54. Wu, M., **Frye, R.E.,** Zouridakis, G. **A Multivariate Approach to Calculate the Strength and Direction of Brain Connectivity.** Houston Society for Engineering in Medicine and Biology, Houston TX 2009 (Platform).
55. **Frye, R.E. Abnormal Biomarkers of Energy Metabolism in Children with Autism.** Mitochondrial Medicine. Tysons Corner VA 2009 (Poster).
56. **Frye, R.E. Executive dysfunction is related to reading disability in adolescents born at term and prematurely.** Neurobiology of Language, Chicago IL 2009. (Poster)
57. **Frye, R.E. Multiple reading-related factors differentially influence cortical and subcortical white matter structure in normal and dyslexic readers.** Society of Neuroscience Meeting, Chicago IL 2009 (Poster).
58. Hasan, K.M., Walimuni, I.S., Abid, H., Kramer, L.A., **Frye, R.E.,** Fletcher, J.M., Ewing-Cobbs, L. **DTI, T2 relaxation and Volumetry of the Human Brain Corpus Striatum across the Lifespan.** International Society for Magnetic Resonance in Medicine, 2010 (Platform).
59. Ellmore, T.M., Li, H., Xue, Z., Malmberg, B., Wong, S., **Frye, R. White Matter Integrity and Non-verbal Intelligence in Autism.** International Meeting for Autism Research, San Diego CA 2011 (Poster)
60. Xue, Z., Li, H., Ellmore, T.M., Malmberg, B., **Frye, R.,** Wong, S. **Anatomical Connectivity-Based Analysis of Autism Using Diffusion Tensor Imaging.** International Meeting for Autism Research, San Diego CA 2011 (Poster)
61. Li, H., Xue, Z., Ellmore, T.M., **Frye, R.,** Malmberg, B., Wong, S. **Brain Network-Based Analysis of Autism Using Diffusion Tensor Imaging.** International Meeting for Autism Research, San Diego CA 2011 (Poster)
62. Wu., M-H, Malmberg, B., Ellmore, T.M., Li, H., Xue, Z., Wong, S., **Frye, R. Granger causality reveals abnormal network structure in the right hemisphere in children with high-functioning autism.** International Meeting for Autism Research, San Diego CA 2011 (Poster)
63. Rossignol, D.A., **Frye, R.E. Mitochondrial Dysfunction in Autism Spectrum Disorders: A Systematic Review and Meta-Analysis.** International Meeting for Autism Research, San Diego CA 2011 (Poster)
64. **Frye, R.E.,** Rossignol, D.A. **Children with Autism Spectrum Disorders and mitochondrial disease: a unique mitochondrial disease subgroup.** Mitochondrial Medicine, Chicago IL 2011 (Platform)
65. Rossignol, D.A., **Frye, R.E. A meta-analysis of biomarker of mitochondrial dysfunction and the prevalence of mitochondrial disease in autism.** Mitochondrial Medicine, Chicago IL 2011 (Poster)
66. **Frye, R.,** James, J., Malmberg, B. Taylor, H., De la Torre, R. **Mitochondrial Dysfunction in children with autism: Relationships between complex activity, oxidative stress and autistic behaviours.** Cell Symposia: Autism Spectrum Disorders: From Mechanisms to Therapies, Arlington VA 2011 (Poster).

67. **Frye, R.**, Rossignol, D. **High Prevalence of the Cerebral Folate Receptor Autoantibody in Autism and Significant Response to Folinic Acid Treatment.** Cell Symposia: Autism Spectrum Disorders: From Mechanisms to Therapies, Arlington VA 2011 (Poster).
68. Hasan, K.M., Walimuni, I.S., **Frye, R.E.** **Global and Regional Multimodal Neuroimaging Markers of the Neurobiology of Autism: Development and Cognition.** Cell Symposia: Autism Spectrum Disorders: From Mechanisms to Therapies, Arlington VA 2011 (Poster).
69. Li, H., Xue, Z., Ellmore, T.M., Malmberg, B., **Frye, R.E.**, Wong, S.T. **Different Correlation Between Structural Brain Connectivity Strength and Neuropsychological Measures in High Functioning Autism.** Cell Symposia: Autism Spectrum Disorders: From Mechanisms to Therapies, Arlington VA 2011 (Poster).
70. Ellmore, T., Xue, Z., Wong, S., **Frye, R.** **A tract-based spatial statistics study of white matter integrity and non-verbal IQ in children with autism.** Cell Symposia: Autism Spectrum Disorders: From Mechanisms to Therapies, Arlington VA 2011 (Poster).
71. MacFabe, D.F, Thomas, R.H., **Frye, R.E.**, **Acyl-Carnitine Abnormalities In Autistic Children Parallel Abnormalities In A Rodent Model of Autism.** International Meeting for Autism Research, Toronto CA 2012 (Poster).
72. Widjaja, F., Choi, J.E., James, S.J., **Frye, R.E.**, Hendren, R.L. **Double-Blind Placebo-Controlled Trial of Methyl B12 Injections for Children with Autism.** International Meeting for Autism Research, Toronto CA 2012 (Poster).
73. **Frye, R.E.**, De La Torre, R., Taylor, H., Melnyk, S., James, S.J. **Metabolic Effects of Tetrahydrobiopterin Treatment.** International Meeting for Autism Research, Toronto CA 2012 (Poster).
74. **Frye, R.E.**, Sequeira, J.M., Quadros, E.V., James, S.J., Rossignol, D. **Cerebral folate receptor autoantibodies in autism spectrum disorder.** International Meeting for Autism Research, Toronto CA 2012 (Poster).
75. Rose, S., Melnyk, S., Pavliv, O., Bai, S., Nick, T.G., **Frye, R.E.**, James, S.J. **Evidence of Oxidative Damage and Inflammation Associated with Low Glutathione Redox Status in the Autism Brain.** International Meeting for Autism Research, Toronto CA 2012 (Poster).
76. Hasan, K.M., Steinberg, J.L., Moeller, G.F., Ma, L., **Frye, R.E.**, Narayana, P.A. **Healthy Human Brain and Patient Customized Quantitative MRI Templates and their interplay using VBM.** Human Brain Mapping, Beijing, China 2012 (Poster).
77. Rose, S., Melnyk, S., **Frye, R.E.**, James, S.J. **Decreased Glutathione Redox Capacity and Increased Susceptibility to Mitochondrial Dysfunction in Autism Lymphoblastoid Cells.** Mitochondrial Medicine, Washington DC 2012 (Poster).
78. **Frye, R.E.**, Rose, S., James, S.J., **Children with Mitochondrial Disease and Autism have alterations in Pathways Involved in Response to Endogenous and Exogenous Stressors.** Mitochondrial Medicine, Washington DC 2012 (Poster).
79. Rose, S., Melnyk, S., **Frye, R.E.**, James, S.J. **Increased Susceptibility to Reactive Oxygen Species in Autism Lymphoblastoid Cells is mediated by Mitochondrial Dysfunction.** Society for Neuroscience, New Orleans LA 2012 (Poster).
80. **Frye, R.E.**, Rose, S., James, S.J., **Children with mitochondrial disease and autism have a unique response to physiological stressors.** Society for Neuroscience, New Orleans LA 2012 (Poster).
81. Rose, S., Melnyk, S., **Frye, R.E.**, James, S.J. **Increased Susceptibility to Reactive Oxygen Species in Autism Lymphoblastoid Cells is mediated by Mitochondrial Dysfunction.** Arkansas Biosciences Institute Conference, Fayetteville AR 2012 (Poster).
82. Rose, S., Melnyk, S., **Frye, R.E.**, James, S.J. **Increased Susceptibility to Reactive Oxygen Species in Autism Lymphoblastoid Cells is mediated by Mitochondrial Dysfunction.** Seahorse Users Meeting, Houston TX 2012 (Poster).
83. MacFabe, D.F, Melnyk, S., **Frye, R.E.**, **Unique acyl-carnitine profiles in rat model of autism predict potential biomarkers for acquired mitochondrial disease in an autism patient cohort.** American Society for Neurochemistry, Cancun, Mexico 2013 (Poster).
84. **Frye, R.E.**, Rose, S., Slattery, J., Wynne, R., Melnyk, S., James, S.J. **Mitochondrial Reserve Capacity in Peripheral Blood Mononuclear Cells Is Related to Development and Glutathione Redox Status in Children with Autism Spectrum Disorder.** International Meeting for Autism Research, San Sebastián, Spain 2013 (Poster).

85. Rose, S., **Frye, R.E.**, Melnyk, S., Wynne, R., James, S.J. **Increased Susceptibility of Autism Lymphoblastoid Cells to Mitochondrial Dysfunction following Reactive Oxygen Species Exposure.** International Meeting for Autism Research, San Sebastián, Spain 2013 (Platform).
86. **Frye, R.E.** **Mitochondrial Reserve Capacity in Peripheral Blood Mononuclear Cells Is Related to Development and Glutathione Redox Status in Children with Autism Spectrum Disorder.** Autism Research Institute Think Tank, Baltimore, 2013 (Platform).
87. **Frye, R.E.**, Rose, S., Slattery, J., Wynne, R., Tippet , M. Melnyk, S., James, S.J. **Mitochondrial dysfunction in immune cells derived from children with autism spectrum disorder (ASD): A unique metabolic endophenotype of children with ASD.** Mitochondrial Medicine, Newport Beach, 2013 (Poster).
88. **Frye, R.E.**, Damie, S., Goldenthal, M.J. **Respiratory complex I and IV dysfunction is associated with Phelan-McDermid Syndrome.** Mitochondrial Medicine, Newport Beach, 2013 (Poster).
89. Rose, S., **Frye, R.E.**, Slattery, J., Wynne, R., Tippet, M., Melnyk, S., James, S.J. **Oxidative stress induces mitochondrial dysfunction in a subset of autism lymphoblastoid cell lines.** Society for Neuroscience, San Diego, CA 2013 (Poster).
90. MacFabe, D.F., Melnyk, S., **Frye, R.E.** **Unique acyl-carnitine profiles in the propionic acid rat model of autism predict potential biomarkers for mitochondrial dysfunction in autistic patients,** Society for Neuroscience, San Diego, CA 2013 (Poster).
91. **Frye, R.E.**, Rose, S., Slattery, J., Wynne, R.A., Melnyk, S., James, S.J. **Abnormal Mitochondrial Function in Immune Cells derived from a Subset of Children with Autism Spectrum Disorder.** Arkansas Biosciences Institute Conference, Fayetteville AR 2013 (Poster).
92. **Frye, R.E.**, Melnyk, S., Fuchs, G., Reid, T., Jernigan, S., Pavliv, O., Hubanks, A., Gaylor, D.W., Walters L., James, S.J. **Effectiveness of methylcobalamin and folic acid treatment on adaptive behavior in children with autistic disorder is related to glutathione redox status.** International Meeting for Autism Research, Atlanta, GA 2014 (Poster)
93. **Frye, R.E.**, Slattery, J.C., Delhey, L., Tippet, M., Melnyk, S., Rose, S., Quadros, E., Sequeira, J.M., James, S.J. **The Efficacy of High-Dose Folic Acid for Autism Spectrum Disorder: A Double-Blind Placebo Controlled Study.** International Meeting for Autism Research, Atlanta, GA 2014 (Poster)
94. Rose, S., **Frye, R.E.**, Slattery, J., Wynne, R., Tippet, M., Melnyk, S., James, S.J. **Oxidative stress induces mitochondrial dysfunction in a subset of autism lymphoblastoid cell lines.** International Meeting for Autism Research, Atlanta, GA 2014. (Poster)
95. Rose, S., **Frye, R.E.**, Slattery, J., Melnyk, S., Wynne, R., Tippet, M., James, S.J. **Oxidative Stress Induces Mitochondrial Dysfunction in a Subset of Autism Lymphoblastoid Cell Lines in a Well-Matched Case Control Cohort.** Society for Inherited Metabolic Disease, Asilomar, CA 2014.
96. **Frye, R.E.**, Kahler, S., Slattery, J., Rose, S., James, J.S. **Treatable Metabolic Disorders Associated with Autism Spectrum Disorder.** Society for Inherited Metabolic Disease, Asilomar, CA 2014
97. Cox, D., Kahler, S., **Frye, R.E.**, Danylchuk, N., Vuk. J. **Autistic like features in Phelan-McDermid syndrome. Possible correlations to patient's genetic information.** American College of Medical Genetics Annual Clinical Genetics Meeting, Nashville, TN 2014.
98. **Frye, R.E.**, Rose, S., Slattery, J., Wynne, R.A., Tippet, M., Melnyk, S., James, S.J. **Mitochondrial dysfunction in a subset of immune cells derived from children with autism spectrum disorder: A unique metabolic endophenotype.** Medical Academy of Pediatric Special Needs, Costa Mesa CA 2014 (Platform).
99. MacFabe, D.F., Melnyk, S., **Frye, R.E.** **Acyl-Carnitine and Redox Profiles in Propionic Acid Exposed Rats Predict Biomarkers for Acquired Mitochondrial Dysfunction in ASD,** American Society for Neurochemistry, Long Beach, CA 2014 (Poster).
100. **Frye, R.E.**, Rose, S., Slattery, J., Wynne, R.A., Tippet, M., Melnyk, S., James, S.J. **Oxidative-stress induced mitochondrial dysfunction is found in immune cells derived from a significant subset of children with autism spectrum disorder.** Mitochondrial Medicine, Pittsburgh PA, 2014 (Poster).
101. Delhey, L., Slattery, J.C., Deepmala, Furgerson, B., Strickland, T., Tippet, M., Sailey, A., Wynne, R., Rose, S., Melnyk, S., James, S.J., Sequeira, J.M., Quadros, E., **Frye, R.E.** **Efficacy and Safety of High Dose Folic Acid in Autism Spectrum Disorder: Open Label Follow-up of a Randomized Controlled Trial.** American Academy of Child and Adolescent Psychiatry, San Antonio TX, 2015 (Poster).
102. **Frye, R.E.**, Delhey, L., Slattery, J.C., Tippet, M., Li, Y., Wynne, R., Rose, S., Bennuri, S., Melnyk, S. **Mitochondrial, Metabolic, Cognitive, Behavioral and Clinical Characteristics of Children with Autism**

and Epilepsy: A Case-Control Study. Global Symposium on Ketogenic Therapies, Banf, Alberta, CN 2016.

103. Carvalho, E., Rose, S., Hurren, N.M., Cotter, M., Azhar, G., Schutzler, S., **Frye, R.**, Børsheim, E. **Mitochondrial oxidative capacity is decreased in peripheral blood mononuclear cells after chronic amino acid supplementation in older adults with hypertriacylglycerolaemia.** ASPET Annual Meeting at Experimental Biology, Chicago IL 2017
104. Jyonouchi, H., Geng, L., Wynne, R., Rose, S., **Frye, R.E.** **An association between IL-1 β production and mitochondrial functions in patients with autism spectrum disorders (ASD).** AAAAI Annual Meeting, Atlanta GA, 2017 (Poster).
105. Ray-Griffith, S.L., Gill, P.S., Bhattacharyya, S., **Frye, R.E.**, James, L., Newport, J.D., Stowe, Z.N. **Perinatal Acetaminophen Use: Characterizing Potential Developmental Risk.** American College of Neuropsychopharmacology. 2016 (Poster).
106. **Frye, R.E.** **Microbiome metabolites and their effect on mitochondrial function.** Arkansas Bioinformatics Consortium 2017. Little Rock, AR 2017 (Platform)
107. Rose, S., Bennuri, S.C., Buie, T., Winter, H., Murray, K.F., **Frye, R.E.** **Cecum Specific Mitochondrial Dysfunction in Children with Autistic Disorder and Gastrointestinal Symptoms.** Arkansas Bioinformatics Consortium (AR-BIC), Little Rock, Arkansas, April 2017 (Poster)
108. Slattery, J.C., MacFabe, D.F., Kahler, S. **Frye, R.E.** **Enteric Ecosystem Disruption in Autism Spectrum Disorder: Can the Microbiota and Macrobiota be Restored?.** Arkansas Bioinformatics Consortium (AR-BIC), Little Rock, Arkansas, April 2017 (Poster)
109. Rose, S., Bennuri, S.C., Buie, T., Winter, H., Murray, K.F., **Frye, R.E.** **Cecum Specific Mitochondrial Dysfunction in Children with Autistic Disorder and Gastrointestinal Symptoms.** UAMS/NCTR Symposium: Mitochondrial Mania, Little Rock, Arkansas, April 2017 (Poster)
110. Slattery, J.C., MacFabe, D.F., Kahler, S. **Frye, R.E.** **Enteric Ecosystem Disruption in Autism Spectrum Disorder: Can the Microbiota and Macrobiota be Restored?.** UAMS/NCTR Symposium: Mitochondrial Mania, Little Rock, Arkansas, April 2017 (Poster)
111. Kahler, S., Slattery, J.C., Tippett, M., Frye, R.E. **A Multi-Specialty Autism Clinic.** International Congress of Inborn Errors of Metabolism, Rio De Janeiro, Brazil, Sept 2017 (Poster).
112. Rose, S. **Frye, R.E.** **Butyrate enhances mitochondrial function in autism lymphoblastoid cells under physiological stress.** American Physiological Society: Physiological Bioenergetics: Mitochondria from Bench to Bedside San Diego, California 2017 (Poster and Platform).
113. Carvalho, E., Rose, S., Hurren, N.M., Cotter, M., Azhar, G., Schutzler, S., **Frye, R.**, Børsheim, E. **Mitochondrial oxidative capacity is decreased in peripheral blood mononuclear cells after chronic amino acid supplementation in older adults with hypertriacylglycerolaemia.** American Physiological Society: Physiological Bioenergetics: Mitochondria from Bench to Bedside San Diego, California 2017 (Poster)

Other Professional Communications: Invited Presentations

114. **Frye, R.E.** **Early detection of cancer through stereo X-ray Imaging.** Department of Physiology and Biophysics Seminar Series, Georgetown University, Washington DC 1995 (Platform).
115. **Frye, R.E.** **The Pediatrician: The Front Line for Detecting and Evaluating Learning Difficulties.** Dartmouth Medical Center Pediatric Grand Rounds, Hanover NH 2004 (Platform).
116. **Frye, R. E.** **Nasal Patency and the Dynamics of Nasal Airflow.** The University Of Pennsylvania Anosmia Symposium, Philadelphia PA 2004 (Platform).
117. **Frye, R.E.** **Reorganization of Language Networks During Word Learning in Normal and Developmental Phonologic Dyslexic Readers.** Loyola University Medical Center Pediatric Grand Rounds, Chicago IL 2004 (Platform).
118. **Frye, R.E.** **The Neurological Basis of Dyslexia:** The Marcus Institute Grand Rounds, Atlanta GA 2005 (Platform).
119. **Frye, R.E.** **The Neurological Basis of Dyslexia: Historical Perspective and Functional Neuroimaging Evidence,** University of Florida Pediatric Grand Rounds, Gainesville FL 2005 (Platform).
120. **Frye, R.E.** **Cortical Dynamics of Phonological Processing in Dyslexic and Normal Readers.** Center for Neuropsychological Studies, University of Florida, Gainesville FL 2005 (Platform).
121. **Frye, R.E.** **Neurological Basis of Word Decoding in Normal and Dyslexic Readers,** Department of Neuroscience, University of Florida Medical Center, Gainesville FL 2005 (Platform).

122. **Frye, R.E.** and Slinger, A.M. **The University of Florida School Problems Clinic.** Department of Pediatrics, University of Florida, Gainesville FL 2005 (Platform).
123. **Frye, R.E.,** **The Neurological Basis of Dyslexia: Evidence from Multiple Imaging Modalities.** The Florida Society of Neurology Annual Course in Behavioral Neurology and Neuropsychology, Orlando FL 2006 (Platform).
124. **Frye, R.E.** **Visualization of the Cortical Dynamics of Dyslexia using Magnetoencephalography.** Department of Computer Science, University of Houston, Houston TX 2006 (Platform).
125. **Frye, R.E.,** **Cortical Dynamics of Language Processing in Dyslexia: Evidence from Multiple Imaging Modalities.** Grand Rounds, Department of Neurosurgery, University of Texas, Houston TX 2006 (Platform).
126. **Frye, R.E.** **Neurobiological causes of Autism.** Merrill Lynch Commodities, Inc., Houston TX 2007. (Platform).
127. Papanicolaou, A., Bowyer, S. **Frye, R.E.,** Moratti, S. **Language/Plasticity Roundtable.** 4-D Neuroimaging International Users Group Meeting, Denver CO 2007 (Platform)
128. **Frye, R.E.,** **Cortical Dynamics of Language Processing in Dyslexia: Evidence from Multiple Imaging Modalities.** Grand Rounds, Department of Pediatrics, University of Texas, Houston TX 2007 (Platform).
129. **Frye, R.E.,** **Neural Compensatory Mechanism for Reading in Dyslexia.** Research Retreat, University of Texas, Houston TX 2007(Platform).
130. **Frye, R.E.** **The Biological Basis of Neurodevelopmental Disorders,** The University of Texas Presidential Lunch, Houston TX 2008 (Platform).
131. Poling, J.S., **Frye, R.E.** **Mitochondrial Autism – A Unique Subpopulation and Piece of the Puzzle?** Autism One, Chicago IL 2008 (Platform).
132. **Frye, R.E.** **Neurobiological causes of Autism.** Department of Pediatrics Grand Rounds, University of Texas, Houston TX 2008 (Platform).
133. **Frye, R.E.** **Mitochondrial Autism – A Unique Subpopulation and Piece of the Puzzle?** Katy Autism Support Group, Katy TX 2008 (Platform).
134. **Frye, R.E.** **The Neurobiology of Dyslexia.** Children’s Learning Institute Collaborative Lecture Series, Department of Pediatrics, Houston TX 2008 (Platform).
135. **Frye, R.E.** **Subclinical Seizures and Developmental Cognitive Disorders.** Autism Research Institute Think Tank, Dallas TX 2009 (Platform).
136. **Frye, R.E.,** **Brain connectivity in individuals with reading disability born at term and prematurely.** Grand Rounds, Department of Neurology, University of Texas Houston TX 2009 (Platform).
137. **Frye, R.E.,** **Subclinical Seizures in Autism.** The Elias Tembenis Seizures Think Tank, Autism One. Chicago IL 2009 (Platform).
138. **Frye, R.E.,** **Subclinical Seizures and Functional Reorganization in Developmental Cognitive Disorders.** Autism One. Chicago IL 2009 (Platform).
139. **Frye, R.E.** **Tetrahydrobiopterin Deficiency and Autism.** BioMarin Pharmaceuticals, Inc., Novato CA 2009 (Platform)
140. **Frye, R.E.** **Subclinical epileptiform discharges and functional reorganization in atypical cognitive development.** AutismOne. 2009 Chicago IL (Platform).
141. **Frye, R.E.** **Biomarkers of Energy Metabolism in Children with Autism** Autism One Canada, Toronto Canada 2009 (Platform).
142. **Frye, R.E.** **Subclinical discharges and functional reorganization in atypical cognitive development.** Autism Research Institute Fall Meeting, Dallas TX 2009 (Platform).
143. **Frye, R.E.** **The Significance of Tetrahydrobiopterin in Developmental Disorders and Autism.** BioMarin Pharmaceuticals Investigator Sponsored Trial Investigator Meeting, Sausalito CA 2009 (Platform).
144. **Frye, R.E.** **Neurobiological causes of Autism.** North Houston Autism Support Group Tomball TX 2009. (Platform).
145. **Frye, R.E.** **Seizures treatments in autism.** Autism Research Institute Winter Think Tank, Dallas TX 2010 (Platform).
146. **Frye, R.E.** **Fatty-acid abnormalities as markers of mitochondrial dysfunction in children with autism.** Autism Research Institute Winter Think Tank, Dallas TX 2010 (Platform).
147. **Frye, R.E.** **Seizures Treatment Survey Results.** Autism One. Chicago IL 2010 (Platform).

148. **Frye, R.E. Mitochondrial Disorder and Autism**, Autism Conferences of America, Arizona "Back to School" Autism/Asperger's Conference, Phoenix AZ 2010 (Platform).
149. **Frye, R.E. Seizures in Autism: A New National Survey on Treatments**, Autism Conferences of America, Arizona "Back to School" Autism/Asperger's Conference, Phoenix AZ 2010 (Platform).
150. **Frye, R.E. Neurological Abnormalities in PKU**, PKU and BH4 Scientific Development Summit II, San Diego CA 2010 (Platform)
151. **Frye, R.E. Biomarkers for Central Tetrahydrobiopterin in Developmental Disorders and Autism**, PKU and BH4 Scientific Development Summit II, San Diego CA 2010 (Platform)
152. **Frye, R.E. Biomarkers of central nervous system BH4 concentration and response to BH4 supplementation in children with idiopathic cognitive developmental disorders**. BioMarin Pharmaceuticals Investigator Sponsored Trial Investigator Meeting, Woodinville WA 2010 (Platform).
153. **Frye, R.E. Research Studies for Children with Autism Spectrum Disorder**. Westwood School, Katy, TX. 2011 (Platform)
154. **Frye, R.E. A Comprehensive Behavior - Biomedical Approach to Autism**. Friends of the Children's Learning Institute at The University of Texas Medical School at Houston Lecture & Luncheon, Houston TX 2011 (Platform)
155. **Frye, R.E. Medical Disorders Associated with Autism: Pathways for Treatments that Augment Recovery**. Arkansas Children's Hospital Research Conference, Little Rock AR 2011 (Platform)
156. **Frye, R.E. Using Magnetoencephalography to understand neurodevelopmental disorders**. Los Angeles Children's Hospital Neurology Grand Rounds, Los Angeles, CA 2011 (Platform)
157. **Frye, R.E. The Significance of Subclinical Electrical Discharges in Neurodevelopmental Disorders**. AutismOne General Session on Seizures in Autism, Chicago IL 2011 (Platform)
158. **Frye, R.E. Mitochondrial Dysfunction Endophenotypes in Autism**. AutismOne Think Tank, Chicago IL 2011 (Platform)
159. **Frye, R.E. Tetrahydrobiopterin concentrations in neurodevelopmental disorder**. BioMarin Pharmaceuticals Autism Submit, Denver, CO 2011 (Platform).
160. **Frye, R.E. Oxidative stress in neurodevelopmental disorder**. BioMarin Pharmaceuticals Neurotransmitter Submit, Chicago, IL 2011 (Platform).
161. **Frye, R.E. Open-label trial of the behavior and metabolic effects BH4 supplementation in children with idiopathic cognitive developmental disorders**. BioMarin Pharmaceuticals Investigator Sponsored Trial Investigator Meeting, Woodinville, WA 2011 (Platform).
162. **Frye, R.E. The folate autoantibody in autism spectrum disorder**. Arkansas Children's Hospital Pediatric Neurology Grand Rounds, Little Rock, AR 2012 (Platform)
163. **Frye, R.E. Seizures in Autism: A New National Survey on Treatments**, Talking About Curing Autism, Las Vegas, NV 2012 (Platform).
164. **Frye, R.E. Mitochondrial Disorders in Autism**, Talking About Curing Autism, Las Vegas, NV 2012 (Platform).
165. **Frye, R.E. Autism Research at Arkansas Children's Hospital**, Fraternal Order of Eagles, Mena, AR.
166. **Frye, R.E. Immunological Abnormalities in Autism Spectrum Disorder**. Arkansas Children's Hospital Pediatric Immunology Grand Rounds, Little Rock, AR 2012 (Platform)
167. **Frye, R.E. Seizures in Autism**. AutismOne, Chicago, IL 2012 (Platform).
168. **Frye, R.E. Seizures in Autism**. California Integrative Hyperbaric Center, Irvine, CA 2012 (Platform).
169. **Frye, R.E. Neurological Abnormalities in Autism**, Talking About Curing Autism, Philadelphia, PA 2012 (Platform).
170. **Frye, R.E. Seizures in Autism**, Talking About Curing Autism, Philadelphia, PA 2012 (Platform).
171. **Frye, R.E. Mitochondrial Disorders in Autism**, Talking About Curing Autism, Philadelphia, PA 2012 (Platform).
172. **Frye, R.E. Epilepsy and Seizures in Autism**, Talking About Curing Autism, Atlanta, GA 2012 (Platform).
173. **Frye, R.E. Mitochondrial Disorders in Autism**, Talking About Curing Autism, Atlanta, GA 2012 (Platform).
174. **Frye, R.E. The Behavioral and Metabolic Effects of Kuvan in Neurodevelopment Disorders in an Open-Label Trial**. BioMarin Pharmaceuticals Investigator Sponsored Trial Investigator Meeting, Berkley, CA 2012 (Platform).
175. **Frye, R.E., Mitochondrial Disorders and Seizures in Autism**. Talking About Curing Autism, Honolulu, HI 2012 (Platform).

176. **Frye, R.E. Epilepsy and Seizures in Autism**, Talking About Curing Autism, Costa Mesa, CA 2013 (Platform).
177. **Frye, R.E. Acylcarnitine Profiles in Autism Spectrum Disorder**. AutismOne, Chicago, IL 2013 (Platform).
178. **Frye, R.E. Oxidative Stress Induced Mitochondrial Dysfunction in Children with Autism Spectrum Disorder**. AutismOne, Chicago, IL 2013 (Platform).
179. **Frye, R.E. Epilepsy and Seizures in Autism**, Talking About Curing Autism Family Picnic, Anaheim, CA 2013 (Platform).
180. **Frye, R.E. Immune and Metabolic Conditions in Patients with Autism Spectrum Disorder**, Interagency Autism Coordinating Committee, National Institutes of Health, Bethesda, MD 2013 (Platform).
181. **Frye, R.E. Epilepsy and Seizures in Autism**, National Autism Association, St. Petersburg, FL 2013 (Platform).
182. **Frye, R.E. First Signs of Autism**, Primer Taller de Capacitación en Trastornos del Desarrollo: Espectro Autista, Hospital Zambrano Hellion TecSalud, Monterrey, Nuevo León, Mexico.
183. **Frye, R.E. Screening for Autism**, Primer Taller de Capacitación en Trastornos del Desarrollo: Espectro Autista, Hospital Zambrano Hellion TecSalud, Monterrey, Nuevo León, Mexico.
184. **Frye, R.E. MD/PhD Lecture Series**, University of Arkansas for Medical Sciences Medical School, Little Rock AR 2014 (Platform)
185. **Frye, R.E. Cerebral Folate Deficiency and Autism: A Multicenter Double Blind Placebo Controlled Trial**. Schmieding Developmental Center, Lowell AR 2014 (Platform)
186. **Frye, R.E. Folinic Acid Intervention, Clinical Trials and Other Medical Treatments for Autism**. UAMS/ACH Centers for Children, Lowell AR 2014 (Platform)
187. **Frye, R.E. Biomedical Abnormalities Associated with Autism Spectrum Disorder and their Treatment**. Autism Research Institute International Conference, Moscow, Russia 2014 (Platform).
188. **Frye, R.E. Seizure and Epilepsy in Autism Spectrum Disorder**. Autism Research Institute International Conference, Moscow, Russia 2014 (Platform).
189. **Frye, R.E., Rose, S. Oxidative Stress Induced Mitochondrial Dysfunction in Children with Autism Spectrum Disorder**. University of Alabama Center for Free Radical Biology, Birmingham AL 2014 (Platform).
190. **Frye, R.E. Oxidative Stress Induced Mitochondrial Dysfunction in Autism**. Autism One. [Main Sessions and Workshop] Chicago IL 2014 (Platform).
191. **Frye, R.E. Oxidative Stress Induced Mitochondrial Function Associated with Autism**. United Mitochondrial Disease Foundation Parent Conference. Pittsburg PA 2014 (Platform).
192. **Frye, R.E. Adaptive Changes in Mitochondrial Function Associated with Autism**. Autism Research Institute Think Tank, Toronto CA 2014 (Platform).
193. **Frye, R.E. Mitochondrial Function Alterations From Microbiome Metabolites in Children with Autism**. International Symposium on the Microbiome in Health and Disease with a Special Focus on Autism, Little Rock AR 2014 (Platform).
194. **Frye, R.E. Biomedical Abnormalities Associated with Autism Spectrum Disorder and their Treatment**. Arkansas Children's Hospital Pediatric Neurology Grand Rounds, Little Rock, AR 2014 (Platform)
195. **Frye, R.E., Goh, S., Kahler, S. Mitochondrial Dysfunction**, Autism Education Summit, Dallas TX 2014 (Platform).
196. **Frye, R.E., Seizures**, Autism Education Summit, Dallas TX 2014 (Platform).
197. **Frye, R.E., Neurology**, Autism Education Summit, Dallas TX 2014 (Platform).
198. **Frye, R.E., Rossignol, D.A. Medical Workshop**, Autism Education Summit, Dallas TX 2014 (Platform).
199. **Frye, R.E. Epilepsy and Seizures in Autism**, National Autism Association, St. Petersburg, FL 2014 (Platform).
200. **Frye, R.E. Clinical Aspects of Mitochondrial Dysfunction in Neuropsychiatric Disorders**. University of Alabama Mitochondrial Symposium: Translational and Applied Bioenergetics, Birmingham AL 2015 (Platform).
201. **Frye, R.E. Physiological Abnormalities Associated with Autism and Their Treatment**. Houston Astros Special Event. Houston TX 2015 (Platform).
202. **Frye, R.E. Treatable Causes of Autism**. Autism One. Chicago IL 2015 (Platform).
203. **Frye, R.E. Epilepsy and Seizures in Autism**, National Autism Association, 2015 (Webinar).

204. **Frye, R.E. Neurometabolic Disorders Associated with Autism**, Shenzhen Autism International Conference, Shenzhen China, 2015 (Platform).
205. **Frye, R.E. Treatment for Mitochondrial Disorders**, OPTIONS Downs Conference, Little Rock AR 2015 (Platform)
206. **Frye, R.E. The role of melatonin in the treatment of ASD**. European College of Neuropsychopharmacology Congress, Amsterdam, The Netherlands 2015 (Platform)
207. **Frye, R.E., Metabolism**, Autism Education Summit, Dallas TX 2015 (Platform).
208. **Frye, R.E., Neurology**, Autism Education Summit, Dallas TX 2015 (Platform).
209. **Frye, R.E., Clinical Cases**, Autism Education Summit, Dallas TX 2015 (Platform).
210. **Frye, R.E., Kahler, S. Autism Center of Excellence at Arkansas Children's Hospital**. Arkansas Legislative Task Force on Autism, State of Arkansas, Little Rock, AR 2015 (Platform)
211. **Frye, R.E. Epilepsy and Seizures in Autism**, National Autism Association, St. Petersburg, FL 2015 (Platform).
212. **Frye, R.E., Kahler, S. Cutting Edge Medical Care in a Precision Medicine Autism Multispecialty Clinic**. Genetic Section Clinical Case Conference, Arkansas Children's Hospital, Little Rock, AR 2016 (Platform)
213. **Frye, R.E. Unique Mitochondrial Dysfunction in the Autism Gut: Relation to Microbiome Metabolites**. Autism Research Institute Think Tank. Dallas, TX 2016 (platform)
214. **Frye, R.E. Neuroimmune Aspects of Neurodevelopmental Disorders: Application to Autism Spectrum Disorder**. Moleculera Labs. Oklahoma City, OK 2016 (Platform).
215. **Frye, R.E. Metabolic disorders associated with Autism: A pathway towards obtaining optimal outcomes**. Annual Alberta Children's Hospital Research Institute Symposium. Calgary, Alberta, CN 2016 (Platform).
216. **Frye, R.E. Metabolic Disorders Associated with Autism**. Autism One. Chicago IL 2016 (Platform)
217. **Frye, R.E. Treatment of Autism Pathophysiology to Achieve Optimal Outcomes**. Alberta Children's Hospital Neurology Grand Rounds. Calgary, Alberta, CN 2016 (Platform).
218. **Frye, R.E., Foundations of Neurology**, Autism Education Summit, Dallas TX 2016 (Platform).
219. **Frye, R.E., Rossignol, D. Neurology and Epilepsy**, Autism Education Summit, Dallas TX 2016 (Platform).
220. **Frye, R.E. Neuroimmune Aspects of Neurodevelopmental Disorders**. OPTIONS Downs Conference, Little Rock AR 2016 (Platform)
221. **Frye, R.E. Autism**. Little Rock Montessori. Little Rock AR 2017 (Platform)
222. **Frye, R.E. Folate Metabolism, Mitochondrial Disease and Autism**. Autism Research Institute, San Diego, CA 2016 (Webinar)
223. **Frye, R.E. Folate receptor alpha autoantibody in autism spectrum disorder**. Autism Research Institute Think Tank, Dallas, TX 2017 (Platform)
224. Rossignol, D., **Frye, R.E. Case Study on Lead Poisoning in an Autistic Patient**. Autism Research Institute Think Tank, Dallas, TX 2017 (Platform)
225. **Frye, R.E. Mitochondrial disorders associated with autism**. Autism One. Colorado Springs, CO 2017 (Platform).
226. **Frye, R.E. How Enteric Microbiome Modulates Mitochondrial Function**. MitoAction Boston MA 2017 (Webinar). <http://www.mitoaction.org/podcasts/how-enteric-microbiome-modulates-mitochondrial-function>
227. **Frye, R.E., Seizures and Autism**, TACA Annual Conference, Costa Mesa, CA 2017 (Platform)
228. **Frye, R.E., Friday Night Coffee Talk, Seizures and Autism**, TACA Annual Conference, Costa Mesa, CA 2017 (Roundtable)
229. **Frye, R.E., Mitochondria and Cerebral Folate Issues in Autism**, TACA Annual Conference, Costa Mesa, CA 2017 (Platform)

Other Professional Communications: Continuing Medical Education Lectures

230. **Frye, R.E. The Neurological Basis of Learning Disabilities**. Texas Pediatric Society, Woodlands, TX 2008 (Platform)
231. **Frye, R.E. Energy Deficits: Autism and Mitochondrial Problems**. Autism Society of America. Dallas, TX 2010 (Platform)
232. **Frye, R.E. Neurological Abnormalities in ASD: Level 1 Clinician Seminar**. Autism Research Institute Fall Conference, Long Beach, CA, 2010 (Platform)

233. **Frye, R.E. Neurological Abnormalities in ASD: Level 2 Clinician Seminar.** Autism Research Institute Fall Conference, Long Beach, CA, 2010 (Platform)
234. **Frye, R.E. The Role of the Nervous System in Autism Spectrum Disorder.** Autism Research Institute Fall Conference, Long Beach, CA, 2010 (Platform)
235. **Frye, R.E. The Effectiveness of Traditional and Non-Traditional Treatments for Children with Autism and Seizures.** Autism Research Institute Fall Conference, Long Beach CA, 2010 (Platform)
236. **Frye, R.E. Neurology: Level 1 Clinician Seminar.** Autism Research Institute Spring Conference, Atlanta, GA, 2011 (Platform)
237. **Frye, R.E. The Role of the Nervous System in ASD.** Autism Research Institute Spring Conference, Atlanta, GA, 2011 (Platform)
238. **Frye, R.E. The Effectiveness of Traditional and Non-Traditional Treatments for Children with Autism and Seizures: Evening Workshop.** Autism Research Institute Spring Conference, Atlanta, GA, 2011 (Platform)
239. **Frye, R.E. Medical Disorders Associated with Autism: Pathways for Treatments that Augment Recovery.** Team Up: Evidence Based Interventions for Children with Autism Conference, Little Rock AR 2011 (Platform)
240. **Frye, R.E. The Role of the Nervous System in ASD.** AutismOne CME Program for Professionals, 2011 Chicago IL (Platform)
241. **Frye, R.E. Neurological abnormalities in ASD: Level 1 Clinician Seminar.** Autism Research Institute Fall Conference, Las Vegas, NV, 2011 (Platform)
242. **Frye, R.E. Clinical Update: Tetrahydrobiopterin (BH4) in Autism Spectrum Disorder.** Autism Research Institute Fall Conference, Las Vegas, NV, 2011 (Platform)
243. **Frye, R.E. Clinical Update: Mitochondrial Dysfunction in Autism Spectrum Disorder.** Autism Research Institute Fall Conference, Las Vegas, NV, 2011 (Platform)
244. **Frye, R.E. Mitochondrial and metabolic abnormalities.** Medical Academy of Pediatric Special Needs. Las Vegas, NV, 2012 (Platform).
245. **Frye, R.E. Neurology and neurophysiology.** Medical Academy of Pediatric Special Needs. Las Vegas, NV, 2012 (Platform).
246. **Frye, R.E. Neurological abnormalities in Autism Spectrum Disorder.** Autism Research Institute Spring Conference, Newark, NJ 2012 (Platform)
247. **Frye, R.E. Neurological abnormalities in Autism Spectrum Disorder.** AutismOne, Chicago, IL 2012 (Platform)
248. **Frye, R.E. Overview: Introduction to neurology and neurophysiology.** Medical Academy of Pediatric Special Needs. Orlando, FL 2012 (Platform).
249. **Frye, R.E. Overview: Neurotransmitters and seizures.** Medical Academy of Pediatric Special Needs. Orlando, FL 2012 (Platform).
250. **Frye, R.E. Advanced: Neurological abnormalities.** Medical Academy of Pediatric Special Needs. Orlando, FL 2012 (Platform).
251. **Frye, R.E. Advanced: Seizures and neurotransmitters.** Medical Academy of Pediatric Special Needs. Orlando, FL 2012 (Platform)
252. **Frye, R.E. Advanced: Metabolic abnormalities.** Medical Academy of Pediatric Special Needs. Orlando, FL 2012 (Platform)
253. **Frye, R.E. Neurology of Autism Spectrum Disorder.** Hawaii Autism Foundation, Honolulu, HI 2012 (Platform)
254. **Frye, R.E. Neurobiology of Autism Spectrum Disorder.** Arkansas Children's Hospital Child Neurology Grand Rounds, Little Rock, AR 2012 (Platform)
255. **Frye, R.E. Foundations of Metabolism.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2013 (Platform)
256. **Frye, R.E. Foundations of Neurology.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2013 (Platform)
257. **Frye, R.E. MAPS in Clinical Practice.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2013 (Platform)
258. **Frye, R.E. Cutting Edge and Novel Treatments.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2013 (Platform).
259. **Frye, R.E. Acquired Mitochondrial Disorders in Children with Autism Spectrum Disorder.** NAAvigating the Maze: Current Trends in Autism Research. New York, NY 2013 (Platform).

260. **Frye, R.E. Cerebral Folate Deficiency in Autism Spectrum Disorder.** NAAvigating the Maze: Current Trends in Autism Research. New York, NY 2013 (Platform).
261. **Frye, R.E. Foundations of Neurology.** Medical Academy of Pediatric Special Needs. Tampa, FL 2013 (Platform).
262. **Frye, R.E. Potentially Reversible Causes of Autism.** Medical Academy of Pediatric Special Needs. Tampa, FL 2013 (Platform).
263. **Frye, R.E. N-acetylcysteine Treatment in Autism.** Medical Academy of Pediatric Special Needs. Tampa, FL 2013 (Platform).
264. **Frye, R.E. Connecting the Pieces: Treatable Causes of Autism.** Autism Society West New York Chapter. Buffalo, NY 2013 (Platform).
265. **Frye, R.E. Novel Treatments for Potentially Reversible Causes of Autism Spectrum Disorder.** Arkansas Children's Hospital Neurology Grand Rounds, Little Rock AR 2013 (Platform).
266. **Frye, R.E. Neurobiological Basis of Autism Spectrum Disorder.** University of Arkansas for Medical Sciences Neurology Grand Rounds, Little Rock AR 2013.
267. **Frye, R.E. Foundations of Neurology.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2014 (Platform).
268. **Frye, R.E. Neurotransmitters and Neurotransmission.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2014 (Platform).
269. **Frye, R.E. Foundations of Neurology.** Medical Academy of Pediatric Special Needs. Orlando, FL 2014 (Platform).
270. **Frye, R.E. Neuroanatomy of Autism.** Interdisciplinary Perspectives on Autism Spectrum Disorder. University of Central Arkansas, Conway, AR 2014 (Platform).
271. **Frye, R.E. The Mito Cocktail: Using supplements as a frontline treatment approach,** Managing Mitochondrial Disease: Current Trends and Perspectives, Atlanta, GA 2015 (Platform).
272. **Frye, R.E. Mito-Autism: The new co-diagnosis of autism with mitochondrial dysfunction,** Managing Mitochondrial Disease: Current Trends and Perspectives, Atlanta, GA 2015 (Platform).
273. **Frye, R.E. Foundations of Neurology, Foundations of MAPS.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2015 (Platform).
274. **Frye, R.E. Reversible Causes of Autism, ACM: Metabolism.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2015 (Platform).
275. **Frye, R.E. Update on New Research, Special Session: Metabolism / Mito.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2015 (Platform).
276. **Frye, R.E. Cases, Special Session: Metabolism / Mito.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2015 (Platform).
277. **Frye, R.E. Cases, Special Session: Advanced Clinical Cases.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2015 (Platform).
278. **Frye, R.E. Diagnosis and Treatment of Autism: A Practical Approach.** Arkansas Academy of Family Practice. Little Rock, AR 2015 (Platform).
279. **Frye, R.E. Foundations of Neurology, Foundations of MAPS.** Medical Academy of Pediatric Special Needs. Orlando FL 2015 (Platform).
280. **Frye, R.E. Reversible Causes of Autism, ACM: Metabolism.** Medical Academy of Pediatric Special Needs. Orlando FL 2015 (Platform).
281. **Frye, R.E. Epilepsy and Seizures, ACM: Neurology.** Medical Academy of Pediatric Special Needs. Orlando FL 2015 (Platform).
282. **Frye, R.E. Neurotransmitters, ACM: Neurology.** Medical Academy of Pediatric Special Needs. Orlando FL 2015 (Platform).
283. **Frye, R.E. Potentially Reversible Causes of Autism.** Pediatric Neuroscience Grand Rounds. Arkansas Children's Hospital, Little Rock, AR 2015 (Platform).
284. **Frye, R.E. Potentially Reversible Causes of Autism.** Psychiatric Grand Rounds. University of Arkansas for Medical Sciences, Little Rock, AR 2015 (Platform).
285. **Frye, R.E. The Microbiome in Health and Disease: A Practical Approach.** Arkansas Academy of Family Practice. Little Rock, AR 2015 (Platform).
286. **Frye, R.E. Mitochondrial and metabolic management; cerebral folate deficiency.** Autism One. Chicago IL 2016 (Platform).
287. **Frye, R.E. Cerebral Folate Deficiency in Autism Spectrum Disorder with Directions for Therapy.** Autism One. Chicago IL 2016 (Platform).

288. **Frye, R.E. Foundations of Neurology, Foundations of MAPS.** Medical Academy of Pediatric Special Needs. Atlanta GA 2016 (Platform).
289. **Frye, R.E. Reversible Causes of Autism, ACM: Metabolism.** Medical Academy of Pediatric Special Needs. Atlanta GA 2016 (Platform).
290. **Frye, R.E. Clinical Cases.** Medical Academy of Pediatric Special Needs. Atlanta GA 2016 (Platform).
291. **Frye, R.E. Advanced Clinical Cases.** Medical Academy of Pediatric Special Needs. Atlanta GA 2016 (Platform).
292. **Frye, R.E. Autism & Seizures: Impairments in Metabolism, Mitochondria, Microbiome & Personalized Nutrient Interventions.** America College of Nutrition, San Diego CA 2016 (Platform)
293. **Frye, R.E. Treatment of Autism Pathophysiology to Achieve Optimal Outcomes.** Pediatric Neuroscience Grand Rounds. Arkansas Children's Hospital, Little Rock, AR 2017 (Platform).
294. **Frye, R.E. Foundations of Neurology, Foundations of MAPS.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2017 (Platform).
295. **Frye, R.E. Reversible Causes of Autism, ACM: Metabolism.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2017 (Platform).
296. **Frye, R.E. Cases.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2017 (Platform).
297. **Frye, R.E. Treatment of Autism Pathophysiology to Achieve Optimal Outcomes.** University of Kentucky Neurology Grand Rounds, Lexington, KY
298. **Frye, R.E. Mitochondrial and metabolic abnormalities associated with autism.** Autism One. Colorado Springs, CO 2017 (Platform).
299. **Frye, R.E. Mitochondrial dysfunction: Beyond Genetics.** Autism One. Colorado Springs, CO 2017 (Platform).
300. **Frye, R.E. Treatment of Autism Pathophysiology to Achieve Optimal Outcomes.** University of Arkansas for Medical Sciences Psychiatry Grand Rounds, 2017 Little Rock, AR
301. **Frye, R.E. Foundations of Neurology, Foundations of MAPS.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2018 (Platform).
302. **Frye, R.E. Seizures.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2018 (Platform).
303. **Frye, R.E. Cases.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2018 (Platform).
304. **Frye, R.E. Advanced Cases.** Medical Academy of Pediatric Special Needs. Costa Mesa, CA 2018 (Platform).

Other Professional Communications: Conference Sessions Chaired or Moderated

305. **Frye, R.** Co-Chaired. Session on Neuroimaging, WSEAS International Conference on Computers, Crete Greece 2007.
306. **Frye, R.E** Moderator, The Elias Tembenis Seizures Think Tank, Autism One Canada. Toronto, Canada 2009
307. **Frye, R.E.** and Adams, J. Moderators, The Elias Tembenis Seizures Think Tank, Autism One. Chicago IL 2010
308. **Frye, R.E.** and Adams, J. Moderators, Elias Tembenis Think Tank, Autism One. Chicago IL 2011.
309. **Frye, R.E.** Moderator, **Metabolism -- Alternative Complementary Medicine.** Medical Academy of Pediatric Special Needs. Tampa, FL 2013.
310. **Frye, R.E.** and Slattery and Rodakis, Moderators. International Symposium on the Microbiome in Health and Disease with a Special Focus on Autism, Little Rock AR 2014.
311. **Frye, R.E.**, Moderator. International Workshop on the Microbiome in Autism, Little Rock AR 2014.

Other Professional Communications: Undergraduate and Graduate Dialectic Lectures Given

- | | |
|---------|---|
| 2009 | Frye, R.E. The Neurological Basis of Developmental Disorders. <u>Cognitive Neuroscience</u> , Department of Psychology, Rice University, Houston, TX |
| 2010-11 | Frye, R.E. Methods in Cognitive Neuroscience II: Electroencephalography and Magnetoencephalography. <u>Introduction of Cognitive Neuroscience</u> , Department of Neuroanatomy, University of Texas, Houston TX |
| 2010-11 | Frye, R.E. Neurobiology of Disease: Dyslexia. <u>Introduction of Cognitive Neuroscience</u> , Department of Neuroanatomy, University of Texas, Houston TX |
| 2010-11 | Frye, R.E. Neurobiology of Disease: Autism. <u>Introduction of Cognitive Neuroscience</u> , Department of Neuroanatomy, University of Texas, Houston TX |

Other Professional Communications: Workshops Attended

1. Autism Research Institute Think Tank, Autism Research Institute, Baltimore 2009
2. The Elias Tembenis Seizures Think Tank, Autism One. Chicago IL 2009
3. The Elias Tembenis Seizures Think Tank, Autism One Canada. Toronto, Canada 2009
4. Autism Research Institute Think Tank, Autism Research Institute, Baltimore 2010
5. The Elias Tembenis Seizures Think Tank, Autism One. Chicago IL 2010
6. Autism Research Institute Think Tank, Autism Research Institute, Baltimore 2011
7. The Elias Tembenis Think Tank, Autism One. Chicago IL 2011
8. Translating Mechanisms to Treatment Working Group. University of California San Francisco, San Francisco, CA 2012
9. Autism Research Institute Think Tank, Autism Research Institute, Baltimore 2013
10. Medical Academy of Pediatric Special Needs Think Tank, Costa Mesa CA 2014
11. Think Tank, Autism One. Chicago IL 2014
12. Parent Workshop on Mitochondrial Disease and Autism, United Mitochondrial Disease Foundation Conference, Pittsburg, PA
13. Examining a Multi-Systems Approach to Autism and the Environment: Challenges and Opportunities for Research. Autism Research Institute, Toronto 2014
14. International Workshop on the Microbiome in Autism, Little Rock AR 2014.
15. American-Chinese Autism International Forum Steering Committee Workshop, China, 2015
16. Autism Research Institute Think Tank, Autism Research Institute, Dallas TX 2016
17. Microbiome Think Tank, Arkansas Children's Research Institute. Little Rock AR 2016.
18. Autism Research Institute Think Tank, Autism Research Institute, Dallas TX 2017

News Articles on Dr Frye and his Research

1. Texas Medical Center Publications, **Cerebral Folate Deficiency Breakthrough**, February 2011 by Mika Rao
2. Arkansas Biosciences Institute 2013 Annual Report, **2013 New Investigator of the Year Award**, 2013
3. Arkansas Children's Hospital Research Institute, Board Report, **Dr. Richard Frye Receives Inaugural ABI New Investigator Research Award**, November 2013
4. Arkansas Children's Hospital Research Institute, **Research Highlights, Summer Science Program 2015**, August 2015 by John Gregan
5. Physician Spotlight, **Richard E Frye, MD, PhD. is "All In" for Autistic Children**. Arkansas Medical News, November 11 2015 by Becky Gillette
6. Arkansas Children's Hospital Research Institute, **Research Update, Clinical Researcher Spotlight: Richard Frye, MD, PhD**, April 2015 by John Gregan
7. Carrie Arnold. **The Families That Launch Their Own Autism Studies**. The Atlantic. Sep 30 2016 <http://www.theatlantic.com/health/archive/2016/09/the-families-that-launch-their-own-autism-studies/502025/>
8. **Folinic acid improves communication, eases autism symptoms in small study**. Autism Speaks. Oct 18, 2016 <https://www.autismspeaks.org/science/science-news/folinic-acid-improves-communication-eases-autism-symptoms-small-study>
9. Ryan Mass. **Folinic acid may help children with autism communicate better**. UPI Health News. Oct 18 2016 http://www.upi.com/Health_News/2016/10/18/Folinic-acid-may-help-children-with-autism-communicate-better/5721476800957/
10. **Folinic acid may help children with autism communicate better**. Medical Press. Oct 18 2016. <http://medicalxpress.com/news/2016-10-folinic-acid-children-autism.html>
11. **Folinic acid may help children with autism communicate better**. AAAS EurekAlert! Oct 18 2016. https://www.eurekalert.org/pub_releases/2016-10/s-fac101816.php
12. **N of One: Autism Research Foundation Interviews Richard Frye, MD PhD on Folinic Acid & Autism Trial**. N of One Autism Research Foundation 2016. <http://www.nofone.org/dr-frye-q-and-a-folinic>
13. (<http://psychnews.psychiatryonline.org/doi/full/10.1176/appi.pn.2016.pp12a2>).

14. **Health Matters: Shedding Light on PANS and PANDAS** by Susanne Brunner. Posted July 26 2017
<http://www.arkansasmatters.com/amazing/amazing-stories/health-matters-shedding-light-on-pans-and-pandas/775300783>

News Article Quotes

1. Bobby Ampezzan. **The kindest cut? Appendix inflames debate about its purpose.** Quotes from Dr Frye as a Microbiome Expert. Arkansas Democrat Gazette.

Magazine Articles

1. Jamie Stringfellow. **High-tech Care.** Story about Dr Frye's approach to treating children with autism. Continental Magazine. January 2011
2. **Advancing Medical Research.** Mention of Dr Richard Frye and Dr Jill James research on treatments for autism. Soiree Magazine. November 2013
3. Dwani Hebda. **Pieces of the puzzle.** Story about Dr Frye's research Savvy.Magazine. April 2015

Radio (also available as podcasts)

1. KERA National Public Radio, Dallas-Fort Worth, Texas. THINK, an hour long live interview with Richard Frye. Aired July 14th Noon to 1pm 2015. <http://www.kera.org/2015/07/14/autism-and-care/>
2. KERA National Public Radio, Dallas-Fort Worth, Texas. THINK, Understanding Autism: A Father's Search Beyond Genetics. Story about John Rodakis' son with short interview with Dr Richard Frye. <http://breakthroughs.kera.org/understanding-autism-a-fathers-search-beyond-genetics/>
3. KUAF National Public Radio. Fayetteville, Arkansas. Research Shows Folinic Acid Could Help Autistic Children Communicate Better. by Antoniette Grajeda. <http://kuaf.com/post/research-shows-folinic-acid-could-help-autistic-children-communicate-better>

Podcasts

1. Autism Research Connections #1: A Conversation with Dr Richard E Frye. March 19th 2016
<https://autismrc.com/>
2. MitoAction. Oxidative Stress and Mitochondrial Dysfunction. May 2 2014.
<http://www.mitoaction.org/blog/autism-mito-and-oxidative-stress>
3. MitoAction. Biomarkers of Abnormal Energy Metabolism in Children with Autism Spectrum Disorder. Oct 9 2014 <http://www.mitoaction.org/autism/summary-and-informal-discussion-dr-richard-frye%E2%80%99s-paper-titled-biomarkers-abnormal-energy>
4. The Autism Enigma. Dr. Richard Frye Interview. <http://cogentbenger.com/autism/interviews/richard-frye-interview/>
5. <http://podbay.fm/show/290467730/e/1338584495?autostart=1>
6. <http://epiphanyasd.blogspot.com/2016/04/interview-series-with-leading-autism.html>

Television

1. KTHV Nightly News. Kelley Cooper interviews Dr Frye on autism research. Interview April 24th 2013.
2. KATV Daybreak Program Morning. Interview with Dr Frye on new autism research. Jan 16 2013
3. KATV Good Morning Arkansas. Interview with Dr Frye on clinical trials for autism at Arkansas Children's Hospital. Aired Oct 17th 2012.
4. KTHV Nightly News: New Treatment for Autism. Oct 18th 2016.
5. KARK Nightly News: Health Matters: Shedding Light on PANS and PANDAS by Susanne Brunner. Aired July 26 2017.

Film

1. The Nature of Things. The autism enigma: Are bacteria to blame? Interview with Dr Richard Frye included in the film. Produced by Cogent/Benger Productions, Canadian Broadcasting Corporation and ARTE France.

Mentoring

2004 Kerry A. Hensley, Senior Thesis Committee, **Context Effects and Categorization of a Consonant Vowel Continuum**, Boston University, Department of Psychology, Boston MA

2003-2007 Janet McGraw Fisher, Doctoral Thesis Committee, Boston University, Department of Psychology, Boston MA

2005-2006 Sarah McCann, Master's Thesis Advisor, University of Florida, Department of Neuropsychology, Gainesville, FL

2007-2010 Roger Wu, PhD, Thesis Committee, University of Houston, Department of Computer Science, Houston TX

2012-2014 Devin Cox, Genetic Counseling Fellow, Arkansas Children's Hospital Research Institute, Little Rock, AR

2013-2014 Alessandra Milesi-halle, Children Neurology Research Fellow, Arkansas Children's Hospital Research Institute, Little Rock, AR

2014 Jeff Chacko, Medical Student, University of Arkansas for Medical Sciences, Little Rock, AR

2015 Jakeira Davis, College Student Intern, Summer Science Program, Arkansas Children's Hospital Research Institute, Little Rock, AR

2015 Ekim Nur Kilinc, M.D., Research Fellow, Arkansas Children's Hospital Research Institute, Little Rock, AR

2015-2017 Shona Ray-Griffith, **Fetal Acetaminophen: A Potential Neurobehavioral Teratogen**. Department of Psychiatry, University of Arkansas for Medical Sciences, Little Rock, AR

2012-Present Shannon Rose, Post-doctoral fellow, Arkansas Children's Hospital Research Institute, Little Rock, AR

2016 Kristi-Ann Villagonzalo, Reviewer for thesis entitled **Redox Biology and Autism**, PhD Candidate, The University of Melbourne, Melbourne, Australia

2017 Kathlyn Connely, Medical Student, University of Arkansas for Medical Sciences, Little Rock, AR