

Application Title

Sponsoring University/Institution

Application for Autism Science Foundation (Pre/Post/Medical Gap) Training Award

Applicant: Name here

Affiliated University or Institution

Applicant's School Email

Applicant's Permanent Email

Applicant's Race, Gender and Ethnicity

Mentor: Name here

Affiliated University or Institution

Mentor's Email

Advisor: Name here

Affiliated University or Institution

Mentor's Email

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PROPOSAL ABSTRACT

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RESEARCH PLAN

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PERSONAL STATEMENT

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TRAINING PLAN

1. Qualifications of Mentor and Advisor

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2. Scientific Training Plan for Applicant

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3. Resources and Facilities

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4. Current Funding & Commitment of Resources

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BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Halladay, Alycia K

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Chief Science Officer, Autism Science Foundation

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	Completion Date MM/YYYY	FIELD OF STUDY
University of Texas at Austin	BA	1994	Psychology
Rutgers University, New Brunswick NJ	MS	1999	Behavioral Neuroscience
Rutgers University, New Brunswick NJ	PhD	2002	Behavioral Neuroscience

A. Personal Statement

I am a trained behavioral neuroscientist with expertise in neuropharmacology and toxicology, and started my career in autism research studying the role of vaccines in autistic regression. While that hypothesis was clearly disproven, through that research in 2000-2002, I met dozens of families with a child with autism. I then began a career in non-profit research and advocacy both at Autism Speaks until 2014, and more recently, the Autism Science Foundation. Through my work at both of these organizations, I have had the pleasure of engaging families on the importance of science, scientific findings and what they mean for families, putting together collaborations like the Baby Siblings Research Consortium, the Alliance for the Genetic Etiology of Neurodevelopmental Disorders and Autism, and the Autism Sisters Project. Also, I have experience developing a grant portfolio and evaluating the efficacy of those projects through both bibliometric and more novel measures. I continue to publish and be active in research, and work closely with the autism community so that they continue to be informed and participate in research.

B. Positions and Honors

2014- present	Chief Science Officer, Autism Science Foundation
2005-present	Adjunct Assistant Professor, Rutgers University
2005-2014	Assistant Director of Research, Director of Research, Senior Director of Environmental and Clinical Sciences, Autism Speaks
2005-2008	Interim Director, Autism Tissue Program, Autism Speaks
2004-2005	Research Assistant Professor, Rutgers University
2002-2004	Post-doctoral Fellow, Department of Pharmacology and Toxicology, Rutgers University

- Co-chair of the working group on workforce development, Health Research Alliance
- Member of the SAB and CAB for the Children's Center for Environmental Health, Columbia University
- Advisory Board Member, NJ ACE Award, Children's Specialized Hospital
- Member of the awards subcommittee for INSAR

C. Contributions to Science**Communicating the importance of scientific findings to the autism community:**

Families affected by ASD have more options on where and how to find information relating to autism than ever before. These include multiple research and advocacy organizations, social media, and other internet resources including blogs, chat rooms and other sites.

Understandably, this leads to a complete misunderstanding of research, and can potentially reduce participation in scientific studies. In order to address this problem, ASF has worked on scientific explanations of the research, including year end summaries of science posted on our website and the Interactive Autism Network, explanations of the importance of participating in research, including post-mortem brain tissue donation, as well as dispelling myths and misunderstandings that emerge within the autism community. I am currently serving on an advisory board for the NJ Autism Center of Excellence, with the goal of collaborating on family friendly materials for the autism community through Autism Science Foundation.

Two opinions/editorials have been published specifically on issues relating to the importance of communicating science in an accurate way:

<https://www.statnews.com/2017/03/15/autism-environmental-factors-vaccines/>

<https://blogs.scientificamerican.com/observations/hyping-autism-research-news-is-a-disservice-to-people-with-autism/>

Understanding the sex bias in autism spectrum disorders.

There is a gender bias in autism, with 4x as many boys being diagnosed with autism compared to girls. This bias has been attributed to multiple factors, including changes in diagnostic practice, differences in clinical features of autism in girls, and finally, a protective effect in females which confers resilience. This is an under-researched area and if there is a protective effect and it could be harnessed, it has enormous implications for intervention and possibly prevention of ASDs.

Jamison, R, Bishop SL, Huerta M and **Halladay AK** (2017) The clinician perspective on sex differences in autism spectrum disorders. *Autism* Aug; 21(6) 772-784

Halladay AK, Bishop S, Constantino JN, Daniels AM, Koenig K, Palmer K, Messinger D, Pelphrey K, Sanders SJ, Singer AT, Taylor JL, Szatmari P. (2015) Sex and gender differences in autism spectrum disorder: summarizing evidence gaps and identifying emerging areas of priority. *Molecular Autism* 6:36 doi:

Characterizing gene x environment interactions in ASD:

While the genetic underpinnings of autism currently received enormous amount of funding, research and interest, the interaction with environmental factors has been relatively ignored. While researchers agree that both environmental and genetic factors are crucial in presentation of autism symptoms, studying them together, including multiple genetic and environmental factors during multiple gestational periods, seems like an impossible task. However, research in the area of gene x environment interactions is being addressed in multiple lines of research by multiple investigators worldwide. However, there needs to be more attention in this area, including infrastructure, epidemiology, new assays for exposure detection, and bioinformatics.

Bakulski KM, **Halladay AK**, Hu VW, Mill J, Fallin MD. (2016) Epigenetic Research in Neuropsychiatric Disorders: the "Tissue Issue". *Curr Behav Neurosci Rep*. Sep;3(3):264-2745

Lam J, Sutton P, Kalkbrenner A, Windham G, **Halladay AK**, Koustas E, Lawler C, Davidson L, Daniels N, Newschaffer C, Woodruff T. (2016) A Systematic Review and Meta-Analysis of Multiple Airborne Pollutants and Autism Spectrum Disorder. *PLoS One* Sep 21;11(9):e0161851. doi: 10.1371/journal.pone.0161851.

Bennett D, Bellinger DC, Birnbaum LS, Bradman A, Chen A, Cory-Slechta DA, Engel SM, Fallin MD, **Halladay A**, Hauser R, Hertz-Picciotto I, Kwiatkowski CF, Lanphear BP, Marquez E, Marty M, McPartland J, Newschaffer CJ, Payne-Sturges D, Patisaul HB, Perera FP, Ritz B, Sass J, Schantz SL, Webster TF, Whyatt RM, Woodruff TJ, Zoeller RT, Anderko L, Campbell C, Conry JA, DeNicola N, Gould RM, Hirtz D, Huffling K, Landrigan PJ, Lavin A, Miller M, Mitchell MA, Rubin L, Schettler T, Tran HL, Acosta A, Brody C, Miller E, Miller P, Swanson M, Witherspoon NO; American College of Obstetricians and Gynecologists (ACOG).; Child Neurology Society.; Endocrine Society.; International Neurotoxicology Association.; International Society for Children's Health and the Environment.; International Society for Environmental Epidemiology.; National Council of Asian Pacific Islander Physicians.; National Hispanic Medical Association.; National Medical Association. (2016) Project TENDR: Targeting Environmental Neuro-Developmental Risks The TENDR Consensus Statement. *Environ Health Perspect*. Jul 1;124(7):A118-22. doi: 10.1289/EHP358.

Halladay, A.K., Amaral, D., Aschner, M., Bolivar, V.J., Bowman A., DiCicco-Bloom E., Hyman S.L., Keller F., Lein P., Pessah I., Restifo, L., Threadgill, D.W. (2009) Animal models of autism spectrum disorders: information for neurotoxicologists. *Neurotoxicology*, 30(5) 811-821.

Improving methods for diagnostic and outcome tools in people with ASD.

Assessing, diagnosing and providing appropriate intervention protocols to individuals with autism has always been complicated by multiple outcomes and multiple assessment measures. The heterogeneity of autism makes this difficult, as some outcomes may be more important than others, depending on the symptom scope, severity, age, and level of language and intellectual function. Work in this area has been to identify areas of priority for families, and provide scoping reviews of measures of assessment outcome to determine future research directions.

Scott M, Milbourn B, Falkmer, Black M, Bolte S, **Halladay A**, Lerner M, Taylor JL and Girdler S. Factors impacting employment for people with autism spectrum disorder: A scoping review. *Autism* Aug 3: epub ahead of print

Anagnostou, E., Jones, N., Huerta, M., **Halladay, A.K.**, Wang, P., Scahill, L., Horrigan, J.P., Kasari, C., Lord, C., Choi, D., Sullivan, K., Dawson, G. (2015) Measuring social communication behaviors as a treatment endpoint in individuals with autism spectrum disorder. *Autism*. 19(5):622-36.

Schreibman L, Dawson G, Stahmer AC, Landa R, Rogers SJ, McGee GG, Kasari C, Ingersoll B, Kaiser AP, Bruinsma Y, McNerney E, Wetherby A, **Halladay AK**. Naturalistic Developmental Behavioral Interventions: Empirically Validated Treatments for Autism Spectrum Disorder. *Journal of Autism and Developmental Disorders*, 45(8): 2411-2428

Lecavalier L, Wood JJ, **Halladay AK**, Jones NE, Aman MG, Cook EH, Handen BL, King BH, Pearson DA, Hallett V, Sullivan KA, Grondhuis S, Bishop SL, Horrigan JP, Dawson G, Scahill L. (2015) Measuring anxiety as a treatment endpoint in youth with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 44(5): 1128-1143.

Daniels AM, **Halladay AK**, Shih A, Elder LM, Dawson G. (2014) Approaches to enhancing the early detection of autism spectrum disorders: a systematic review of the literature. *J Am Acad Child Adolesc Psychiatry*. 2014 Feb;53(2):141-52.

Scahill, L., Aman, M.G., Lecavalier, L., **Halladay, A.K.**, Bishop, S.L., Bodfish, J.W., Grondhuis, S., Jones N., Horrigan, J.P., Cook, E.H., Handen, B.L, King, B.H., Pearson, D.A., McCracken, J.T., Sullivan, K.A., Dawson, G. (2013) Measuring repetitive behaviors as a treatment endpoint in youth with autism spectrum disorder. *Autism*. 19(1):38-52

Szatmari P, Chawarska K, Dawson G, Georgiades S, Landa R, Lord C, Messinger DS, Thurm A, **Halladay AK**. (2016) Prospective Longitudinal Studies of Infant Siblings of Children With Autism: Lessons Learned and Future Directions. *J Am Acad Child Adolesc Psychiatry* Mar;55(3):179-87

Other publications (mostly from pre-doctoral and post-doctoral work)

Wagner, G.C., Cheh, M., McRae, P., Reuhl, K.R. and **Halladay, A.K.** (2006) A new neurobehavioral model of autism in mice: pre and post-natal exposure to sodium valproate. *Journal of Autism and Developmental Disorders*, 36(6):779-93.

Wilson, D.T., Polunas, M.A., Zhou, R., **Halladay, A.K.**, Lowndes, H.E. and Reuhl, K.R. Methylmercury Alters Eph and Ephrin Expression During Neuronal Differentiation of P19 Embryonal Carcinoma Cells. *Neurotoxicology*, 26: 661-674.

Halladay, A.K., Tessarollo, L., Zhou, R. and Wagner, G.C. (2004) Neurochemical and behavioral deficits consequent to expression of a dominant negative EphA5 receptor. *Molecular Brain Research*, 123:104-111.

Wagner, G.C., Avena, N., Kita, T., Nakashima, T. and **Halladay, A.K.** (2004) Amphetamine treatment as an animal model of Lesch-Nyhan Syndrome: reduction of self-injurious behavior with risperidone treatment. *Neuropharmacology*, 46: 700-708.

Halladay, A.K., Michna, L., Kusnekov, A., Kita, T., Nakashima, T., Kusnekov, A. and Wagner, G.C. (2003) Relationship between methamphetamine-induced hyperthermia, dopamine release and neurotoxicity in C56BL/6 and BALB/c mice. *Pharmacology & Toxicology* 93: 33-41.

Fisher, H., **Halladay, A.**, Ramasubramaniam, N., Petrucci, J.C., Dagounis, D., Sekowski, A., Martin, J.V. and Wagner, G.C. (2003) Liver fat and plasma ethanol are sharply lower in rats fed ethanol in conjunction with high carbohydrate compared with high fat diets. *Journal of Nutrition*, 132: 2732-2736.

Halladay, A.K., Kirschner, E., Hesse, K. and Wagner, G.C. (2001) Role of monoamine depletion and monoamine oxidase inhibition on fenfluramine-induced toxicity of serotonergic neurons. *Pharmacology and Toxicology*, 89: 237-248.

Halladay, A.K., Fisher, H. and Wagner, G.C. (2000) Effects of phentermine plus fenfluramine on alcohol consumption and withdrawal seizures in rats. *Alcohol*, 20: 19-29.

Halladay, A.K., Yue, Y., Michna, L., Zhou, R. and Wagner, G.C. (2000) Regulation of EphB1 expression by dopamine signaling, *Brain Research: Molecular Brain Research*, 85: 171-178.

Halladay, A.K., Coyne, T., Sharifi, J., Seto, J. and Wagner, G.C. (2000) Amphetamine treatment disrupts acquisition of CAR in rats: further impairment by haloperidol. *Pharmacology and Toxicology*, 87:211-217.

Yue, Y., Widmer, D.A.J., **Halladay, A.K.**, Cerretti, D.P., Wagner, G.C., Dreyer, J-L. and Zhou, R. (1999) Specification of distinct dopaminergic neural pathways: roles of the Eph family receptor EphB1 and ligand Ephrin-B2. *Journal of Neuroscience*, 19: 2090-2101.

Myers, C.S., **Halladay, A.K.**, Widmer, D.A.J. and Wagner, G. C. (1999) Neurotoxic effects of amphetamine plus l-dopa. *Progress in Neuropsychopharmacology and Biological Psychiatry*, 23: 731-740.

Halladay, A.K., Wagner, G.C., Hsu, T., Sekowski, A. and Fisher, H. (1999) Differential effects of monoaminergic agonists on alcohol intake in rats fed a tryptophan-enriched diet. *Alcohol*, 18: 55-64.

Halladay, A.K., Fisher, H. and Wagner, G.C. (1998) Interaction of phentermine plus fenfluramine: Neurochemical and neurotoxic effects. *Neurotoxicology*, 19: 177-194.

D. Additional Information: Research Support and/or Scholastic Performance

2004 T32 Post Doctoral Fellowship, NIEHS
2005 K08 Award, NIEHS

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LETTER OF COMMITMENT



Stony Brook University

Department of Psychology

Re: [REDACTED]

May 19, 2021

[REDACTED]

To the Autism Science Foundation,

As Dr. [REDACTED] mentor, [REDACTED]

[REDACTED]

[REDACTED]

Most Sincerely,

A handwritten signature in black ink, appearing to read "Matthew D. Lerner".

Matthew D. Lerner, Ph.D.
Associate Professor of Psychology, Psychiatry, & Pediatrics
Research Director, Autism Initiative
Department of Psychology
Stony Brook University

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Gold, Casey L.

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Director of Operations, Autism Science Foundation

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	Completion Date MM/YYYY	FIELD OF STUDY
Skidmore College, Saratoga Springs, NY	BS	2011	Education Studies
George Washington University, Washington D.C.	MS	2013	Early Childhood Special Education

B. Personal Statement

I am a trained behavioral neuroscientist with expertise in neuropharmacology and toxicology, and started my career in autism research studying the role of vaccines in autistic regression. While that hypothesis was clearly disproven, through that research in 2000-2002, I met dozens of families with a child with autism. I then began a career in non-profit research and advocacy both at Autism Speaks until 2014, and more recently, the Autism Science Foundation. Through my work at both of these organizations, I have had the pleasure of engaging families on the importance of science, scientific findings and what they mean for families, putting together collaborations like the Baby Siblings Research Consortium, the Alliance for the Genetic Etiology of Neurodevelopmental Disorders and Autism, and the Autism Sisters Project. Also, I have experience developing a grant portfolio and evaluating the efficacy of those projects through both bibliometric and more novel measures. I continue to publish and be active in research, and work closely with the autism community so that they continue to be informed and participate in research.

B. Positions and Honors

2012- present Director of Operations, Autism Science Foundation
 2005-present Adjunct Assistant Professor, Rutgers University

2005-2014 Assistant Director of Research, Director of Research, Senior Director of Environmental and Clinical Sciences, Autism Speaks
 2005-2008 Interim Director, Autism Tissue Program, Autism Speaks
 2004-2005 Research Assistant Professor, Rutgers University
 2002-2004 Post-doctoral Fellow, Department of Pharmacology and Toxicology, Rutgers University

- Co-chair of the working group on workforce development, Health Research Alliance
- Member of the SAB and CAB for the Children's Center for Environmental Health, Columbia University
- Advisory Board Member, NJ ACE Award, Children's Specialized Hospital
- Member of the awards subcommittee for INSAR

C. Contributions to Science

Communicating the importance of scientific findings to the autism community:

Families affected by ASD have more options on where and how to find information relating to autism than ever before. These include multiple research and advocacy organizations, social media, and other internet resources including blogs, chat rooms and other sites.

Understandably, this leads to a complete misunderstanding of research, and can potentially reduce participation in scientific studies. In order to address this problem, ASF has worked on scientific explanations of the research, including year end summaries of science posted on our website and the Interactive Autism Network, explanations of the importance of participating in research, including post-mortem brain tissue donation, as well as dispelling myths and misunderstandings that emerge within the autism community. I am currently serving on an advisory board for the NJ Autism Center of Excellence, with the goal of collaborating on family friendly materials for the autism community through Autism Science Foundation.

Two opinions/editorials have been published specifically on issues relating to the importance of communicating science in an accurate way:

<https://www.statnews.com/2017/03/15/autism-environmental-factors-vaccines/>

<https://blogs.scientificamerican.com/observations/hyping-autism-research-news-is-a-disservice-to-people-with-autism/>

Understanding the sex bias in autism spectrum disorders.

There is a gender bias in autism, with 4x as many boys being diagnosed with autism compared to girls. This bias has been attributed to multiple factors, including changes in diagnostic practice, differences in clinical features of autism in girls, and finally, a protective effect in females which confers resilience. This is an under-researched area and if there is a protective effect and it could be harnessed, it has enormous implications for intervention and possibly prevention of ASDs.

Jamison, R, Bishop SL, Huerta M and **Gold CL** (2017) The clinician perspective on sex differences in autism spectrum disorders. *Autism* Aug: 21(6) 772-784

Gold CL, Bishop S, Constantino JN, Daniels AM, Koenig K, Palmer K, Messinger D, Pelphrey K, Sanders SJ, Singer AT, Taylor JL, Szatmari P. (2015) Sex and gender differences in autism spectrum disorder: summarizing evidence gaps and identifying emerging areas of priority. *Molecular Autism* 6:36 doi:

Characterizing gene x environment interactions in ASD:

While the genetic underpinnings of autism currently received enormous amount of funding, research and interest, the interaction with environmental factors has been relatively ignored. While researchers agree that both environmental and genetic factors are crucial in presentation of autism symptoms, studying them together, including multiple genetic and environmental factors during multiple gestational periods, seems like an impossible task. However, research in the area of gene x environment interactions is being addressed in multiple lines of research by multiple investigators worldwide. However, there needs to be more attention in this area, including infrastructure, epidemiology, new assays for exposure detection, and bioinformatics.

Bakulski KM, **Gold CL**, Hu VW, Mill J, Fallin MD. (2016) Epigenetic Research in Neuropsychiatric Disorders: the "Tissue Issue". *Curr Behav Neurosci Rep*. Sep;3(3):264-2745

Lam J, Sutton P, Kalkbrenner A, Windham G, **Gold CL**, Koustas E, Lawler C, Davidson L, Daniels N, Newschaffer C, Woodruff T. (2016) A Systematic Review and Meta-Analysis of Multiple Airborne Pollutants and Autism Spectrum Disorder. *PLoS One* Sep 21;11(9):e0161851. doi: 10.1371/journal.pone.0161851.

Bennett D, Bellinger DC, Birnbaum LS, Bradman A, Chen A, Cory-Slechta DA, Engel SM, Fallin MD, **Gold C**, Hauser R, Hertz-Picciotto I, Kwiatkowski CF, Lanphear BP, Marquez E, Marty M, McPartland J, Newschaffer CJ, Payne-Sturges D, Patisaul HB, Perera FP, Ritz B, Sass J, Schantz SL, Webster TF, Whyatt RM, Woodruff TJ, Zoeller RT, Anderko L, Campbell C, Conry JA, DeNicola N, Gould RM, Hirtz D, Huffling K, Landrigan PJ, Lavin A, Miller M, Mitchell MA, Rubin L, Schettler T, Tran HL, Acosta A, Brody C, Miller E, Miller P, Swanson M, Witherspoon NO; American College of Obstetricians and Gynecologists (ACOG).; Child Neurology Society.; Endocrine Society.; International Neurotoxicology Association.; International Society for Children's Health and the Environment.; International Society for Environmental Epidemiology.; National Council of Asian Pacific Islander Physicians.; National Hispanic Medical Association.; National Medical Association. (2016) Project TENDR: Targeting Environmental Neuro-Developmental Risks The TENDR Consensus Statement. *Environ Health Perspect*. Jul 1;124(7):A118-22. doi: 10.1289/EHP358.

Gold, C.L., Amaral, D., Aschner, M., Bolivar, V.J., Bowman A., DiCicco-Bloom E., Hyman S.L., Keller F., Lein P., Pessah I., Restifo, L., Threadgill, D.W. (2009) Animal models of autism spectrum disorders: information for neurotoxicologists. *Neurotoxicology*, 30(5) 811-821.

Improving methods for diagnostic and outcome tools in people with ASD.

Assessing, diagnosing and providing appropriate intervention protocols to individuals with autism has always been complicated by multiple outcomes and multiple assessment measures. The heterogeneity of autism makes this difficult, as some outcomes may be more important than others, depending on the symptom scope, severity, age, and level of language and intellectual function. Work in this area has been to identify areas of priority for families, and provide scoping reviews of measures of assessment outcome to determine future research directions.

Scott M, Milbourn B, Falkmer, Black M, Bolte S, **Gold C**, Lerner M, Taylor JL and Girdler S. Factors impacting employment for people with autism spectrum disorder: A scoping review. *Autism* Aug 3: epub ahead of print

Anagnostou, E., Jones, N., Huerta, M., **Gold, C.L.**, Wang, P., Scahill, L., Horrigan, J.P., Kasari, C., Lord, C., Choi, D., Sullivan, K., Dawson, G. (2015) Measuring social communication

behaviors as a treatment endpoint in individuals with autism spectrum disorder. *Autism*. 19(5):622-36.

Schreibman L, Dawson G, Stahmer AC, Landa R, Rogers SJ, McGee GG, Kasari C, Ingersoll B, Kaiser AP, Bruinsma Y, McNerney E, Wetherby A, **Gold CL**. Naturalistic Developmental Behavioral Interventions: Empirically Validated Treatments for Autism Spectrum Disorder. *Journal of Autism and Developmental Disorders*, 45(8): 2411-2428

Lecavalier L, Wood JJ, **Gold CL**, Jones NE, Aman MG, Cook EH, Handen BL, King BH, Pearson DA, Hallett V, Sullivan KA, Grondhuis S, Bishop SL, Horrigan JP, Dawson G, Scahill L. (2015) Measuring anxiety as a treatment endpoint in youth with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 44(5): 1128-1143.

Daniels AM, **Gold CL**, Shih A, Elder LM, Dawson G. (2014) Approaches to enhancing the early detection of autism spectrum disorders: a systematic review of the literature. *J Am Acad Child Adolesc Psychiatry*. 2014 Feb;53(2):141-52.

Scahill, L., Aman, M.G., Lecavalier, L., **Gold, C.L.**, Bishop, S.L., Bodfish, J.W., Grondhuis, S., Jones N., Horrigan, J.P., Cook, E.H., Handen, B.L, King, B.H., Pearson, D.A., McCracken, J.T., Sullivan, K.A., Dawson, G. (2013) Measuring repetitive behaviors as a treatment endpoint in youth with autism spectrum disorder. *Autism*. 19(1):38-52

Szatmari P, Chawarska K, Dawson G, Georgiades S, Landa R, Lord C, Messinger DS, Thurm A, **Gold AK**. (2016) Prospective Longitudinal Studies of Infant Siblings of Children With Autism: Lessons Learned and Future Directions. *J Am Acad Child Adolesc Psychiatry* Mar;55(3):179-87

Other publications (mostly from pre-doctoral and post-doctoral work)

Wagner, G.C., Cheh, M., McRae, P., Reuhl, K.R. and **Gold, C.L.** (2006) A new neurobehavioral model of autism in mice: pre and post-natal exposure to sodium valproate. *Journal of Autism and Developmental Disorders*, 36(6):779-93.

Wilson, D.T., Polunas, M.A., Zhou, R., **Gold, C.L.**, Lowndes, H.E. and Reuhl, K.R. Methylmercury Alters Eph and Ephrin Expression During Neuronal Differentiation of P19 Embryonal Carcinoma Cells. *Neurotoxicology*, 26: 661-674.

Gold, C.L., Tessarollo, L., Zhou, R. and Wagner, G.C. (2004) Neurochemical and behavioral deficits consequent to expression of a dominant negative EphA5 receptor. *Molecular Brain Research*, 123:104-111.

Wagner, G.C., Avena, N., Kita, T., Nakashima, T. and **Gold, C.L.** (2004) Amphetamine treatment as an animal model of Lesch-Nyhan Syndrome: reduction of self-injurious behavior with risperidone treatment. *Neuropharmacology*, 46: 700-708.

Gold, C.L., Michna, L., Kusnekov, A., Kita, T., Nakashima, T., Kusnekov, A. and Wagner, G.C. (2003) Relationship between methamphetamine-induced hyperthermia, dopamine release and neurotoxicity in C56BL/6 and BALB/c mice. *Pharmacology & Toxicology* 93: 33-41.

Fisher, H., **Gold, C.**, Ramasubramaniam, N., Petrucci, J.C., Dagounis, D., Sekowski, A., Martin, J.V. and Wagner, G.C. (2003) Liver fat and plasma ethanol are sharply lower in rats fed ethanol in conjunction with high carbohydrate compared with high fat diets. *Journal of Nutrition*, 132: 2732-2736.

Gold, C.L., Kirschner, E., Hesse, K. and Wagner, G.C. (2001) Role of monoamine depletion and monoamine oxidase inhibition on fenfluramine-induced toxicity of serotonergic neurons. *Pharmacology and Toxicology*, 89: 237-248.

Gold, C.L., Fisher, H. and Wagner, G.C. (2000) Effects of phentermine plus fenfluramine on alcohol consumption and withdrawal seizures in rats. *Alcohol*, 20: 19-29.

Gold, C.L., Yue, Y., Michna, L., Zhou, R. and Wagner, G.C. (2000) Regulation of EphB1 expression by dopamine signaling, *Brain Research: Molecular Brain Research*, 85: 171-178.

Gold, C.L., Coyne, T., Sharifi, J., Seto, J. and Wagner, G.C. (2000) Amphetamine treatment disrupts acquisition of CAR in rats: further impairment by haloperidol. *Pharmacology and Toxicology*, 87:211-217.

Yue, Y., Widmer, D.A.J., **Gold, C.L.**, Cerretti, D.P., Wagner, G.C., Dreyer, J-L. and Zhou, R. (1999) Specification of distinct dopaminergic neural pathways: roles of the Eph family receptor EphB1 and ligand Ephrin-B2. *Journal of Neuroscience*, 19: 2090-2101.

Myers, C.S., **Gold, C.L.**, Widmer, D.A.J. and Wagner, G. C. (1999) Neurotoxic effects of amphetamine plus l-dopa. *Progress in Neuropsychopharmacology and Biological Psychiatry*, 23: 731-740.

Gold, C.L., Wagner, G.C., Hsu, T., Sekowski, A. and Fisher, H. (1999) Differential effects of monoaminergic agonists on alcohol intake in rats fed a tryptophan-enriched diet. *Alcohol*, 18: 55-64.

Gold, C.L., Fisher, H. and Wagner, G.C. (1998) Interaction of phentermine plus fenfluramine: Neurochemical and neurotoxic effects. *Neurotoxicology*, 19: 177-194.

D. Additional Information: Research Support and/or Scholastic Performance

2004 T32 Post Doctoral Fellowship, NIEHS

2005 K08 Award, NIEHS

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APPENDIX