

# CURRICULUM VITAE

## David R. Hessel, Ph.D.

M.I.N.D. Institute  
University of California Davis Medical Center  
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### EDUCATION

- Ph.D. University of Washington. Seattle, WA (1997)  
Major Area: Child Clinical Psychology  
Minor Area: Developmental Psychology
- M.S. University of Washington. Seattle, WA (1995)  
Major Area: Child Clinical Psychology
- B.A. University of California, Los Angeles. Los Angeles, CA (1989)  
Major: Psychology

### ADDITIONAL TRAINING

- 1996 – 1997 **APA Accredited Internship.** Lucile Salter Packard Children's Hospital at Stanford and The Children's Health Council Consortium, Stanford and Palo Alto, CA.
- 1997 - 1998 **MacArthur Foundation Post-Doctoral Fellowship.** Institute of Human Development, University of California, Berkeley, CA.

### ACADEMIC POSITIONS

- 2008 – present **Associate Professor of Clinical Psychiatry.** Department of Psychiatry and Behavioral Sciences and M.I.N.D. Institute, University of California Davis School of Medicine, Sacramento, CA.
- 2006 – 2008 **Assistant Professor of Clinical Psychiatry.** Department of Psychiatry and Behavioral Sciences and M.I.N.D. Institute, University of California Davis School of Medicine, Sacramento, CA.

- 2003 – 2006                    **Assistant Clinical Professor.** Department of Psychiatry and Behavioral Sciences and M.I.N.D. Institute, University of California Davis School of Medicine, Sacramento, CA.
- 2002 – 2003                    **Psychologist II.** M.I.N.D. Institute, University of California Davis School of Medicine, Sacramento, CA.
- 1998 - 2001                    **Research and Clinical Psychologist.** Division of Child Psychiatry, Stanford University School of Medicine, Stanford, CA.

### **ACADEMIC AWARDS AND FELLOWSHIPS**

- 1988                                Honors in Psychology, University of California, Los Angeles
- 1991-1996                        NIMH Graduate Student Research Fellowship, University of Washington
- 1994                                Department of Psychology Dissertation Award, University of Washington
- 1997-1998                        MacArthur Foundation Post-Doctoral Fellowship, Institute of Human Development, University of California, Berkeley
- 2003                                Joe P. Tupin Research Award, Department of Psychiatry, U.C. Davis
- 2004                                Co-Recipient, National Fragile X Foundation Hagerman Award, for contribution to the discovery of Fragile X-Associated Tremor/Ataxia Syndrome
- 2006                                U.C. Davis Imaging Research Center Award
- 2007-2008                        M.I.N.D. Institute Pilot Research Grant Award
- 2008                                U.C. Davis Academic Senate Research Travel Award

### **COMMITTEES**

- 2008 -                              Member, Admissions Committee, U.C. Davis School of Medicine

### **PANELS AND ADVISORY POSITIONS**

- Member, Adolescents and Adults Projects Team, National Fragile X Foundation
- Reviewer, Social Sciences and Humanities Research Council of Canada
- Member, NIH Fragile X Research Coordinating Group
- Advisory Panelist, NICHD Outcome Measures for Clinical Trials with Children with Fragile X Syndrome
- Advisory Panelist, NICHD Research Plan for Fragile X Syndrome and Associated Disorders

### **COMMUNITY SERVICE**

- “A Conversation Between a Researcher and a Parent of a Child with Autism”, Access To Care, Bayside Church, Roseville, CA

- Donation of an in-home evaluation of a child with fragile X syndrome in Iowa, to benefit the National Fragile X Foundation, 2007
- Donation of an in-home evaluation of two children with fragile X syndrome in Missouri, to benefit the National Fragile X Foundation, 2008
- Provided consultation in an autism clinic, in association with the First Annual Autism Conference, Dubai, United Arab Emirates, 2005

## REVIEWER

- *American Journal on Mental Retardation*
- *American Journal of Psychiatry*
- *Annals of Neurology*
- *Biological Psychiatry*
- *Child Development*
- *Development and Psychopathology*
- *Journal of Autism and Developmental Disorders*
- *Journal of Child Psychology and Psychiatry*
- *Journal of Intellectual Disability Research*
- *Neuropsychology*

## PROFESSIONAL AFFILIATIONS

- American Psychological Association
- Society for the Study of Behavioural Phenotypes
- Learning Disabilities Association

## LICENSURE

Licensed Psychologist, State of California, #16690, 2000 - present

## GRANTS

- |        |  |
|--------|--|
| Active | NIMH - R01MH078041<br>Limbic System Function in Carriers of the Fragile X Premutation<br>Role: PI<br>Amount: \$1,558,710 total for 5 years   |
| Active | NIMH - 1K23MH77554: Patient-Oriented Career Development Research Grant<br>Genetics and Physiology of Social Anxiety in Fragile X<br>Role: PI |

Amount: \$771,837 total for 5 years

Active

NICHD - R21MH080025  
Amygdala Function in Children and Adolescents with Fragile X  
Syndrome  
PI: Susan Rivera  
Role: Co-Investigator  
Amount: \$417,000 for 2 years

Active

NIA - RL11RL1AG032115-01  
NeuroTherapeutics Research Consortium  
Characterization and Treatment of CNS Abnormalities in Premutation  
Carriers  
Overall PI: Paul Hagerman; Component PI: Randi Hagerman  
Role: Investigator  
Amount: \$2,800,000 for 5 years

Active

Seaside Therapeutics  
A Double-Blind, Placebo-Controlled, Crossover, Flexible-Dose  
Evaluation of the Efficacy, Safety, and Tolerability of STX209 in the  
Treatment of Irritability in Subjects with Fragile X Syndrome  
PI: Randi Hagerman  
Role: Co-Investigator  
Amount: \$10,244 per patient

Active

Neuropharm, Ltd. - NPL-2009-2-FEN-001  
An Open Label Exploratory Study to Investigate the Effect of Fenobam  
Monohydrate (Fenobam 50 mg – 150 mg single dose) on Prepulse  
Inhibition Tests and Continuous Performance Tasks, in Adults with  
Fragile X Syndrome  
Role: Co-PI  
Amount: \$53,835 for one year

2007-2008

M.I.N.D. Institute Pilot Research Grant  
Sensorimotor Gating in Idiopathic Autism and Autism in Fragile X  
Syndrome  
Role: PI  
Amount: \$50,000 for 1 year

2007-2008

M.I.N.D. Institute Pilot Research Grant  
Y Chromosome Gene Expression in Autism Spectrum Disorders  
PI: Robin Hansen  
Role: Co-Investigator  
Amount: \$24,920 for 1 year

2006 -2007

Children's Miracle Network

Autistic Spectrum Disorders and Behavioral Problems in Male Children with Sex Chromosome Aneuploidy

Role: PI

Amount: \$60,000 total for 2 years

2005 - 2006

National Fragile X Foundation

Hyperarousal and Aggressive Behavior in Fragile X Syndrome

Role: PI

Amount: \$30,000 for 1 year

2002 - 2005

NIH Grant #HD36071: Genotype-Phenotype Relationships in Fragile X Families

PI: Randi Hagerman, M.D.

Role: Psychologist, 40% support

2004 – 2005

NIH Grant # 1 R01 NS044299-01: Action Tremor and Dementia in Male Carriers of Fragile X

PI: Jim Grigsby, Ph.D.

Role: Psychologist, 10% support

2003 – 2004

Joe P. Tupin Award – Department of Psychiatry, U.C. Davis: Genetic, Physiological, and Neuroendocrine Correlates of Anxiety in Fragile X Syndrome

Amount of award: \$35,000

Role: P.I.

## PEER REVIEWED JOURNAL ARTICLES

1. **Hessler, D.**, Cordeiro, L., Yuhas, J., Campbell, A., Ornitz, E., Berry-Kravis, E., Chruscinski, E., Hervey, C., Long, J.M., & Hagerman, R.J. (In press). Prepulse inhibition in fragile X syndrome: Feasibility, reliability and implications for treatment. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics.
2. Harris S.W., **Hessler D.**, Bacalman S., Goodlin-Jones B., Ferranti J., Herman K., Tassone F., Barbato I., Hagerman P.J., Hagerman R.J. (In press) Autism profiles of males with fragile X syndrome. American Journal on Mental Retardation.
3. Zingerevich, C., Greiss-Hess, L., Lemons-Chitwood, Harris, S., **Hessler, D.**, & Hagerman, R.J. (In press). Motor abilities of children with fragile X syndrome. Journal of Intellectual Disabilities Research.
4. Hagerman, R.J., Berry-Kravis, E., Ono, M.Y., Tartaglia, N., Lachiewicz, A., Kronk, R., Delahunty, C., Kaufmann, W., **Hessler, D.**, Visootsak, J., Picker, J., Gane, L., & Tranfaglia, M. (In press). Advances in the treatment of fragile X syndrome. Pediatrics.
5. Brouwer J.R., Severijnen E., de Jong, F.H., **Hessler D.**, Hagerman R.J., Oostra B.A., & Willemsen R. (2008). Altered hypothalamus-pituitary-adrenal gland axis regulation in the expanded CGG-repeat mouse model for fragile X-associated tremor/ataxia syndrome. Psychoneuroendocrinology, 33, 863-873.

6. García-Nonell, C., Ratera, E.R., Harris, S., **Hessler, D.**, Ono, M., Tartaglia, N., Marvin, E., Tassone, F., & Hagerman, R.J. (2008). Secondary medical diagnosis in fragile X syndrome with and without autism spectrum disorder. *American Journal of Medical Genetics*, 146A(15), 1911-1916.
7. Koldewyn, K., **Hessler, D.**, Adams, J., Tassone, F., Hagerman, R.J., Hagerman, P.J., & Rivera, S. (2008). Reduced hippocampal activation during recall is associated with elevated *FMR1* mRNA and psychiatric symptoms in men with the fragile X premutation. *Brain Imaging and Behavior*, 2, 105-116.
8. Brega A.G., Goodrich G., Bennett R.E., **Hessler, D.**, Engle K., Leehey M.A., Bounds L.S., Paulich M.J., Hagerman R.J., Hagerman P.J., Cogswell J.B., Tassone F., Reynolds A., Kooken R., Kenny M., & Grigsby J. (2008). The primary cognitive deficit among males with fragile X-associated tremor/ataxia syndrome (FXTAS) is a dysexecutive syndrome. *Journal of Clinical and Experimental Neuropsychology*, 15, 1-17.
9. Soontarapornchai, K., Maselli, R., Fenton-Ferrell, G., Tassone, F., Hagerman, P.J., **Hessler, D.**, & Hagerman, R.J. (2008). Abnormal nerve conduction features in fragile X premutation carriers. *Archives of Neurology* 65(4), 469-498.
10. Grigsby, J., Brega, A.G., Engle, K., Leehey, M.A., Hagerman, R.J., Tassone, F., **Hessler, D.**, Hagerman, P.J., Cogswell, J.B., Bennett, R.E., Cook, K., Hall, D.A., Bounds, L.S., Paulich, M.J. & Reynolds, A. (2008). Cognitive profile of fragile X premutation carriers with and without fragile X-associated tremor/ataxia syndrome. *Neuropsychology* 22(1), 48-60.
11. **Hessler, D.**, Tassone, F., Cordeiro, L., Koldewyn, K., McCormick, C., Green, C., Wegelin, J., Yuhas, J., & Hagerman, R. (2008). Aggression and stereotypic behavior in males with fragile X syndrome: Moderating secondary genes in a “single gene” disorder. *Journal of Autism and Developmental Disorders* 38(1), 184-189.
12. Bourgeois, J.A., Cogswell, J.B., **Hessler, D.**, Zhang, L., Ono, M.Y., Tassone, F., Farzin, F. & Hagerman, R.J. (2007). Cognitive, anxiety and mood disorders in the fragile X-associated tremor/ataxia syndrome. *General Hospital Psychiatry*, 29(4), 349-356.
13. McConkie-Rosell, A., Abrams, L., Finucane, B., Cronister, A., Gane, L.W., Coffey, S.M., Sherman, S., Nelson, L.M., Berry-Kravis, E., **Hessler, D.**, Chiu, S., Street, N., Vatave, A., & Hagerman, R.J. (2007). Recommendations from multi-disciplinary focus groups on cascade testing and genetic counseling for Fragile X associated disorders. *Journal of Genetic Counseling* 16(5), 593-606.
14. Solomon, M., **Hessler, D.**, Chiu, S., Hagerman, R., & Hendren, R. (2007). A genetic etiology of PDD guides treatment. *American Journal of Psychiatry* 164(4): 575-580.
15. Grigsby, J., Brega, A., Leehey, M., Goodrich, G., Jacquemont, S., Loesch, D., Hagerman, P., Cogswell, J., Epstein J., Wilson, R., Jardini, T., Gould, E., Bennett, R., **Hessler, D.**, Cohen, S., Cook, K., & Hagerman, R. (2007). Impairment of executive cognitive functioning in males with fragile X-associated tremor/ataxia syndrome (FXTAS). *Movement Disorders*, 22(5), 645-650.
16. Chiu, S., Wegelin, J., Blank, J., Jenkins, Day, J., **Hessler, D.**, Tassone, F., & Hagerman, R.J. (2007). Early acceleration of head circumference in children with fragile X syndrome and autism. *Journal of Behavioral and Developmental Pediatrics* 28, 31-35.
17. **Hessler, D.**, Rivera, S., Koldewyn, K., Cordeiro, L., Adams, J., Tassone, F., Hagerman, P.J., & Hagerman, R.J. (2007). Amygdala dysfunction in men with the fragile X premutation. *Brain* 130(2), 404-416.

18. Leehey, M., Berry-Kravis, E., Min, S., Hall, D., Rice, C., Zhang, L., Grigsby, J., Greco, C., Lara, R., Cogswell, J., Jacquemont, S., **Hessler, D.**, Tassone, F., Hagerman, R., & Hagerman, P. (2007). Progression of tremor and ataxia in the fragile X-associated tremor/ataxia syndrome. Movement Disorders 22(2), 203-206.
19. Loesch, D., Quang, M., Dissanayake, C., Clifford, S., Gould, E., Bulhak-Paterson, D., Tassone, F., Taylor, A., **Hessler, D.**, Hagerman, R., & Huggins, R. (2006). Molecular and cognitive predictors of the continuum of autistic behaviors in fragile X. Neuroscience and Biobehavioral Reviews 31, 315-326.
20. Cohen, S., Maysn, K., Adams, J., **Hessler, D.**, Rivera, S., Tassone, F., Brunberg, J., DeCarli, C., Zhang, L., Cogswell, J., Loesch, D., Leehey, M., Grigsby, J., Hagerman, P.J., & Hagerman, R.J. (2006). Molecular and imaging correlates of the Fragile X-associated Tremor Ataxia Syndrome. Neurology 67(8), 1426-1431.
21. Bourgeois, J.A., Farzin, F., Brunberg, J.A., Tassone, F., Hagerman, P.J., Zhang, L., **Hessler, D.** & Hagerman, R.J. (2006). Dementia with mood symptoms in a carrier of the fragile X-associated tremor/ataxia syndrome (FXTAS): Clinical intervention with donepezil and venlafaxine. The Journal of Neuropsychiatry and Clinical Neurosciences, 18(2), 171-177.
22. Farzin F., Perry H., **Hessler D.**, Loesch D.Z., Cohen J., Bacalman S., Gane L.W., Tassone F., Hagerman P., & Hagerman R.J. (2006). Autism spectrum disorders and attention deficit/hyperactivity disorder in boys with the fragile X premutation. Journal of Developmental and Behavioral Pediatrics, 27(2) S137-S144.
23. **Hessler, D.**, Glaser, B., Dyer-Friedman, J., & Reiss, A.L. (2006). Social behavior and cortisol reactivity in children with fragile X syndrome. Journal of Child Psychology and Psychiatry, 47(6), 602-610.
24. Greco, C.M., Berman, R.F., Martin, R.M., Tassone, F., Schwartz, P.H., Grigsby, J., **Hessler, D.**, Becker, E.J., Papazian, J., Bacalman, S., Leehey, M.A., Hagerman, R.J., & Hagerman, P.J. (2006). Neuropathology of fragile X-associated tremor/ataxia syndrome (FXTAS). Brain, 129, 243-255.
25. **Hessler, D.**, Tassone, F., Loesch, D.Z., Berry-Kravis, E., Leehey, M., Gane, L.W., Barbato, I., Rice, C., Gould, E., Hall, D.A., Grigsby, J., Wegelin, J.A., Harris, S., Lewin, F., Weinberg D., Hagerman, P.J., & Hagerman, R.J. (2005). Abnormal elevation of *FMR1* mRNA is associated with psychological symptoms in individuals with the fragile X premutation. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics 139B: 115-121.
26. Mothersead PK, Conrad K, Hagerman RJ, Greco CM, **Hessler D.**, & Tassone F. (2005). Grand rounds: An atypical progressive dementia in a male carrier of the fragile X premutation: An example of Fragile X-Associated Tremor/Ataxia Syndrome. Applied Neuropsychology 12(3), 169-78.
27. **Hessler, D.**, Deprey, L., Ruiz, L., Huff, H.N., & Hagerman, R.J. (2004). Vagus nerve stimulation in an adult male with fragile X syndrome. Mental Health Aspects of Developmental Disabilities, 7(3), 107-113.
28. Hagerman, R.J., Leavitt, B.R., Farzin, F., Jacquemont S., Greco, C.M., Brunberg, J.A., Tassone, F., **Hessler, D.**, Harris, S.W., Zhang, L., Jardini, T., Gane, L.W., Ferranti J., Ruiz, L., Leehey, M.A., Grigsby, J., & Hagerman, P.J. (2004). Fragile X-Associated Tremor/Ataxia Syndrome (FXTAS) in females with the *FMR1* premutation. American Journal of Human Genetics, 74(5), 1051-1056.
29. **Hessler, D.**, Rivera, S. & Reiss, A.L. (2004). The neuroanatomy and neuroendocrinology of fragile X syndrome. Special issue: Fragile X syndrome: Frontiers of understanding gene-

- brain-behavior relationships. Mental Retardation and Developmental Disabilities Research Reviews, 10, 17-24.
30. Dawson, G., Ashman, S. B., Panagiotides, H., **Hessl, D.**, Self, J., Yamada, E. & Embry, L. (2003). Preschool outcomes of children of depressed mothers: Role of maternal behavior, contextual risk, and children's brain activity. Child Development, 74(4), 1158-1175.
  31. Johnston, C., **Hessl, D.**, Eliez, S., Dyer-Friedman, J., Blasey, C., Glaser, B., & Reiss, A. (2003). Factors associated with parenting stress in mothers of children with fragile X syndrome. Journal of Behavioral and Developmental Pediatrics, 24(4), 267-275.
  32. Glaser, B., **Hessl, D.**, Dyer-Friedman, J., Johnston, C., Wisbeck, J., Taylor, A. & Reiss, A. (2003). Biological and environmental contributions to adaptive behavior in fragile X syndrome. American Journal of Medical Genetics, 117A, 21-29.
  33. **Hessl, D.**, Glaser, B., Dyer-Friedman, Blasey, C., Gunnar, M., Hastie, T. & Reiss, A. (2002). Cortisol and behavior in fragile X syndrome. Psychoneuroendocrinology, 27, 855-872.
  34. Carrion, V., Weems, C., Ray, R., Glaser, B., **Hessl, D.**, & Reiss, A. (2002). Baseline cortisol in pediatric PTSD. Biological Psychiatry, 51, 575-582.
  35. Dyer-Friedman, J., Glaser, B., **Hessl, D.**, Johnston, C., Taylor, A., Wisbeck, J. & Reiss, A. (2002). Genetic and environmental influences on the cognitive outcomes of children with fragile X syndrome. Journal of the American Academy of Child and Adolescent Psychiatry, 41(3), 237-244.
  36. Tamm, L., Menon, V., Johnston, C. **Hessl, D.**, & Reiss, A. (2002). fMRI study of cognitive interference processing in females with fragile X syndrome. Journal of Cognitive Neuroscience, 14, 160-171.
  37. **Hessl, D.**, Dyer-Friedman, J., Glaser, B., Barajas, G., Wisbeck, J., Taylor, A. & Reiss, A. (2001). The influence of environmental and genetic factors on behavior problems and autistic symptoms in boys and girls with fragile X syndrome. Pediatrics, 108(5), p. e88.
  38. Johnston, C., Eliez, S., Dyer-Friedman, J., **Hessl, D.**, Glaser, B., Blasey, C., Taylor, A., & Reiss, A. (2001). Neurobehavioral phenotype in carriers of the fragile X premutation. American Journal of Medical Genetics, 103, 314-319.
  39. Dawson, G., Ashman, S. B., **Hessl, D.**, Spieker, S., Frey, K., Panagiotides, H., & Embry, L. (2001). Autonomic and brain electrical activity in securely- and insecurely-attached infants of depressed mothers. Infant Behavior and Development, 24, 135-149.
  40. Dawson, G., Frey, K., Panagiotides, H., Yamada, E., **Hessl, D.**, & Osterling, J. (1999). Infants of depressed mothers exhibit atypical frontal electrical brain activity during interactions with mother and with a familiar, nondepressed adult. Child Development, 70(5), 1058-1066.
  41. Dawson, G., Frey, K., Self, J. F., Panagiotides, H., **Hessl, D.**, Yamada, E., & Rinaldi, J. (1999). Frontal brain electrical activation in infants of depressed mothers and nondepressed mothers: Relations to variations in infant behavior. Development and Psychopathology, 11, 589-605.
  42. Dawson, G., Frey, K., Panagiotides, H., Osterling, J., & **Hessl, D.** (1997). Infants of depressed mothers exhibit atypical frontal brain activity: A replication and extension of previous findings. Journal of Child Psychology and Psychiatry, 38(2), 179-186.
  43. Dawson, G., **Hessl, D.**, & Frey, K. (1994). Social influences on early-developing biological and behavioral systems related to risk for affective disorder. Special Issue: Neural Plasticity, Sensitive Periods, and Psychopathology. Development and Psychopathology, 6(4), 759-779.

## BOOK CHAPTERS

1. **Hessler, D.**, Green, C., Aguilar, D., Cordeiro, L., McCormick, C., & Yuhas, J. (In press). Clinical overview: Developmental disability and fragile X syndrome. In Larry R. Squire, Editor-in-Chief, Encyclopedia of Neuroscience, Academic Press, Oxford, 2008.
2. Dawson, G., & **Hessler, D.** (1996). Ethical dilemmas in the assessment of maternal depression. In K. Hoagwood, P. Jensen, & C. Fisher (Eds.), Ethical Issues in Mental Health Research with Children and Adolescents. Lawrence Erlbaum Associates: New Jersey.

## NON PEER REVIEWED PUBLICATIONS

1. **Hessler, D.**, Tassone, F., Cordeiro, L., Koldewyn, K., McCormick, C., Green, C., Yuhas, J., Adams, J., & Hagerman, R.J. (2006). Aggression and self-injurious behavior in boys and young men with fragile X syndrome. National Fragile X Foundation Quarterly.
2. **Hessler, D.**, Dyer-Friedman, J., Glaser, B., Erba, H., & Reiss, A.L. (2002). Genes, schools and family: What influences cognitive and behavioral outcome in children with fragile X syndrome? National Fragile X Foundation Quarterly, Spring Edition.

## MANUSCRIPTS UNDER REVIEW OR IN PROGRESS

1. Farzin, F., Rivera, S.M., & **Hessler, D.** (Under review). Face processing in individuals with fragile X syndrome: An eye tracking study.
2. **Hessler, D.**, Nguyen, D.V., Green, C., Chavez, A., Tassone, F., Hagerman, R.J., Senturk, D., Schneider, A., Lightbody, A., Reiss, A.L., Hall, S. (Under review). Limitations of intelligence testing in children with developmental disabilities: The case of fragile X syndrome and a solution to the problem.
3. Bourgeois, J., Coffey, S., Rivera, S.M., **Hessler, D.**, Gane, L.W., Tassone, F., Greco, C., Finucane, B., Nelson, L., Berry-Kravis, E., Grigsby, J., Hagerman, P.J. & Hagerman, R.J. (Under review). The family of fragile X premutation disorders: Expanding the psychiatric perspective.

## PRESENTATIONS, ABSTRACTS, AND POSTERS

1. Farzin, F., Rivera, S.M., Weru, J., & **Hessler, D.** (2008). Face processing in individuals with fragile X syndrome: An eye-tracking study. Presented at the 11th International Fragile X Conference, St. Louis, Missouri.
2. Adams, P.E., Adams, J.S., Nguyen, D., **Hessler, D.**, Brunburg, J.A., Tassone, F., Zhang, L., DeCarli, C., Hagerman, P.J., & Hagerman, R.J. (2008). Psychiatric problems in female fragile X premutation carriers, with involvement of the hippocampus. Presented at the 11th International Fragile X Conference, St. Louis, Missouri.

3. Chavez, A., Schneider, A., Green, C., Nguyen, D., Loesch, D., Gould, E., & Hessler, D. (2008). Limitations of the standard IQ score in fragile X syndrome: A proposed solution using an individual deviation score. Presented at the 11<sup>th</sup> International Fragile X Conference, St. Louis, Missouri.
4. Hessler, D., Schneider, A., Cordeiro, L., Tassone, F., Rivera, S., Nguyen, D., Gane, L., & Hagerman, R.J. (2008). Genetic and brain correlates of psychiatric and cognitive functioning in men with the fragile X premutation. Presented at the 11<sup>th</sup> International Fragile X Conference, St. Louis, Missouri.
5. Schneider, A., Hessler, D., Tassone, F., Yuhas, J., Le, L., Chavez, A., Gane, L., & Hagerman, R.J. (2008). Two faces of the fragile-X premutation – clinical correlates of CGG repeat size and methylation. Presented at the 11<sup>th</sup> International Fragile X Conference, St. Louis, Missouri.
6. Hessler, D. (2007). Commonalities in psychophysiological dysfunction in fragile X and autism. 10<sup>th</sup> International Meeting of the Society for the Study of Behavioural Phenotypes, Sacramento, CA.
7. Rivera, S.M., Hessler, D., Koldewyn, K., Tassone, F., & Hagerman, R.J. (2007). Brain-based evidence of limbic system dysfunction in fragile X premutation carriers. Presented at the 13<sup>th</sup> International Workshop on Fragile X and X-Linked Mental Retardation, Venice, Italy.
8. Hessler, D., Tassone, F., Campbell, A., Cordeiro, L., Yuhas, J., Ornitz, E., & Hagerman, R.J. (2007). Prepulse inhibition in fragile X syndrome and FXTAS. Presented at the 13<sup>th</sup> International Workshop on Fragile X and X-Linked Mental Retardation, Venice, Italy.
9. Hagerman, R.J., Soontarapornchai, K., Maselli, R., Fenton-Farell, G., Tassone, F., Hessler, D., & Hagerman, P.J. (2007). Characterization of the neuropathy in the fragile X-associated tremor/ataxia syndrome (FXTAS). Presented at the 13<sup>th</sup> International Workshop on Fragile X and X-Linked Mental Retardation, Venice, Italy.
10. Hessler, D., Rivera, S., Koldewyn, K., Cordeiro, L., Adams, J., Tassone, F., Hagerman, P.J., & Hagerman, R.J. (2006). Amygdala dysfunction in men with the fragile X premutation. Presented at the 11<sup>th</sup> Annual Meeting of the Society for the Study of Behavioural Phenotypes, Royal College of Surgeons, Dublin, Ireland. Journal of Intellectual Disabilities Research, 50, 787.
11. Tartaglia, N., Hansen, R., Reynolds, A., Hessler, D., Bacalman, S., Goodlin-Jones, B., Deprey, L., & Hagerman, R.J. (2006). Attention deficit hyperactivity disorder and autism spectrum disorders in males with XXY, XYY and XYYX syndromes. Presented at the 11<sup>th</sup> Annual Meeting of the Society for the Study of Behavioural Phenotypes, Royal College of Surgeons, Dublin, Ireland. Journal of Intellectual Disabilities Research, 50, 787.
12. Hagerman, R.J., Adams, J., Adams, P., Nguyen, D., Hessler, D., Tassone, F., & Hagerman, P.J. (2006). FXTAS: A comparison of male vs. female involvement. Presented at the 11<sup>th</sup> Annual Meeting of the Society for the Study of Behavioural Phenotypes, Royal College of Surgeons, Dublin, Ireland. Journal of Intellectual Disabilities Research, 50, 789.
13. Hessler, D. & Roberts, J. (2006). Psychophysiological studies and biophysical outcomes. Presented at the National Institute of Child Health and Human Development Fragile X Meeting, Atlanta, GA.
14. Hessler, D., Cordeiro, L., Koldewyn, K., Tassone, F., Cohen, S., Green, C., McCormick, C., & Hagerman, R.J. (2006). Aggressive behavior in fragile X syndrome: Genetic, physiological, and environmental factors. Presented at the 10<sup>th</sup> International Fragile X Conference, Atlanta, GA.

15. **Hessler, D.**, Cordeiro, L., Tassone, F., & Hagerman, R.J. (2006). Evidence of reduced psychophysiological responses to social-emotional stimuli in adult males with the fragile X premutation. Presented at the 10<sup>th</sup> International Fragile X Conference, Atlanta, GA.
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