

## RESEARCH PUBLICATIONS - UNIVERSITY OF MISSOURI: SINCE LAST REVIEW (Post-Tenure)

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- Hegarty II, JP, Ferguson BJ, Zamzow RM, Rohowetz LJ, Johnson JD, Christ SE, Beversdorf DQ. (2017). Beta-adrenergic antagonism modulates functional connectivity in the default mode network of individuals with and without autism spectrum disorder. *Brain Imag Behav* 11:1278-1289.
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## Pre-Tenure

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- ABSTRACTS - UNIVERSITY OF MISSOURI (Post-tenure):**
- Beversdorf D, Nair N, Hegarty J, Hover E, Hooshmand S, Ferguson B, Tilley M, Christ S. Stress-induced alterations in functional connectivity during verbal fluency. American College of Neuropsychopharmacology, December 6, 2017, Palm Springs, CA.
- Halt AK, Kille BM, Ferguson BJ, Drysdale DR, Sutton BE, Herriott B, Beversdorf DQ. Effects of paced breathing on convergent and divergent thinking. Society for Neuroscience, November 14, 2017, Washington, DC.
- Sun GY, Li R, Yang B, Greenlief M, Fritsche KL, Cui J, Beversdorf DQ. Anti-oxidative effects of docosahexaenoic acid and its peroxidation products in microglia. Society for Neuroscience, November 15, 2017, Washington, DC.
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- Hegarty II JP, Weber D, Beversdorf DQ. Cerebellar connectivity and glutamatergic metabolite concentration in ASD as assessed by fcMRI/MRS. International Meeting for Autism Research, May 13, 2016 (platform presentation), Baltimore, MD.
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- Ferguson BJ, Herriott BN, Halt AK, Beversdorf DQ. Effect of paced breathing on cognitive flexibility. Cognitive Neuroscience Society, April 2-5, 2016, New York, NY.
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- Christ SE, Abraham MC, Yao G, Beversdorf DQ. Brainstem morphometry in individuals with and without autism spectrum disorders. Society for Neuroscience, October 17-21, 2015, Chicago, IL.
- Kille BM, Davis DJ, Crowson KS, Trott KE, Ericson AC, Wiedmeyer CE, Roudner JN, Beversdorf DQ, Hagan CE. Gut microbiota and blood analyses underlying reduced sickness-like behavior in serotonin transporter knockout mice following inflammatory challenge. Society for Neuroscience, October 17-21, 2015, Chicago, IL.

Matsui F, Yoshimoto K, Hecht P, Fritsche K, Will M, Beversdorf DQ. Docosahexaenoic acid (DHA) rescued autistic symptoms accompanied by dopaminergic change on a gene/prenatal stress mouse model. Society for Neuroscience, October 17-21, 2015, Chicago, IL.

Ferguson BJ, Herriott BN, Halt AK, Beversdorf DQ. Effect of paced breathing on cognitive flexibility. Society for Neuroscience, October 17-21, 2015, Chicago, IL.

Zamzow RM, Hegarty II JP, Bellesheim KR, Price MH, Johnson JD, Yao G, Beversdorf DQ, Christ SE. Global and modular resting state functional network topology in autism, phenylketonuria, and traumatic brain injury. Society for Neuroscience, October 17-21, 2015, Chicago, IL.

Hecht P, Liu X, Tilley M, Hudson M, Connors SL, Beversdorf DQ. Interaction between maternal 5-HTT genotype and prenatal stress exposure in ASD, confirmation in two independent samples. International Meeting for Autism Research, May 13-16, 2015, Salt Lake City, UT.

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**CURRENT RESEARCH:**

- A. Rodent model of the effects of diet and prenatal stress and diet on social behavior.
- B. Interaction between prenatal stress, diet, genetics, and immune markers in the development of autism.
- C. Effect of neurexin/neuroligin superfamily genes on GABA and glutamate/glutamine MRS in autism, and potential for imaging/genetic markers for treatment response.
- D. Noradrenergic modulation of cognitive flexibility in autism.
- E. fMRI demonstration of noradrenergic modulation of functional connectivity in autism.
- F. stress-related genes and imaging correlates of cognitive effects of stress
- G. Interaction between stress markers and gastrointestinal symptomatology in autism