

CURRICULUM VITAE

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Claudia Buss

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EDUCATION

- Feb. 2007 – Nov. 2010** **University of California, Irvine**
Postdoctoral Researcher,
Department of Psychiatry and Human Behavior
- Jan. 2003 – Dec. 2006** **University of Trier, Germany**
Doctoral Researcher,
Department of Clinical and Theoretical Psychobiology
Ph.D.
- Oct. 2003 – Sep. 2005** **McGill University, Montreal, Canada**
Doctoral Researcher,
Departments of Psychiatry, Neurology and Neurosurgery
- Oct. 1997 – Dec. 2002** **University of Trier, Germany**
M.Sc. (Diploma) studies in psychology

ACADEMIC POSITIONS

- Since Jan. 2013** **Charité Universitätsmedizin Berlin, Germany**
Professor,
Department of Medical Psychology
- Since Dec. 2010** **University of California, Irvine, USA**
Assistant Professor,
Department of Pediatrics (since January 2013 part-time faculty)

- Feb. 2007 – Nov. 2010** **University of California, Irvine, USA**
Postdoctoral Researcher,
Department of Psychiatry and Human Behavior
- Oct. 2003 – Sep. 2005** **McGill University, Montreal, Canada**
Research Associate,
Departments of Psychiatry, Neurology and Neurosurgery
- May 2000 – Dec. 2002** **University of Trier, Germany**
Student Research Assistant

RESEARCH INTERESTS

Pre- and Postnatal Programming of Life-span Development

- Pre-and Postnatal Programming of Brain Development
- Transgenerational Transmission of Early Life Stress
- Effects of Maternal Stress on Fetal Development and Birth Outcomes
- Developmental Origins of Infant and Adult Health and Disease
- Maternal-placental-fetal Endocrinology and the Biology of the Stress Response in Pregnancy
- Gene-environment Interactions in Human Fetal and Infant Development
- Influence of Sociodemographic and Psychosocial Factors and Health Behaviors on Reproductive and Developmental Health Outcomes
- Ecological Momentary Assessment Methodologies and Applications in Human Pregnancy
- Child Developmental and Health Outcomes
- Neuroimaging of Stress Effects on the Brain Across the Life Span
- Early Life Determinants of Successful Aging

TEACHING

Charité, Universitätsmedizin, Berlin, Germany

- Since 2013** Model Curriculum Human Medicine, Biopsychosocial Aspects in Medicine, Lecture, Module 1
- Model Curriculum Human Medicine, Memory and Learning Strategies, Seminar, Module 1
- Model Curriculum Human Medicine, Stress and Stress Processing, Seminar, Module 6

Model Curriculum Human Medicine, Ethical Basis for Medical Thinking and Acting: “Planned Children and Design Babies”, Seminar, Modules 9-12

Model Curriculum Human Medicine, Developmental Programming of Health and Disease, Seminar, Module 20

Model Curriculum Human Medicine, The Stressed Brain, Seminar, Module 20

Model Curriculum Human Medicine, Gene*Environment Interactions, Seminar, Module 31

Model Curriculum Human Medicine, Prenatal Diagnostics, Seminar, Module 33

Health Sciences, Bachelor Studies, Developmental Programming of Health and Disease Prenatal Diagnostics, Lecture

University of California, Irvine, USA

Since 2011 Lecture Series in the Development, Health and Disease Research Program for Medical Fellows

Since 2007 Directed Studies/ Special Studies (Bio Sci/ Soc Eco 198/199) in psychobiology of pregnancy and fetal/ infant development course for undergraduate students

2007 Co-Instructor: Development, Health, and Disease for graduate and undergraduate students, Spring quarter

University of Trier, Germany

2006 Co-Instructor: Neuropattern: Development of a new diagnostic system for stress-related disorders for graduate students, Summer semester

2005-2006 Selected Questions in Psychobiological Research for graduate students

McGill University, Montreal, Canada

2005 Co-Instructor: Psychopathology for medical students, Summer semester

EXAMINATIONS

1. November 2014, Opponent in dissertation defense, University of Helsinki, Finland.
2. January 2015, Examiner in dissertation defense, Graduate School of Health & Medical Science, University of Copenhagen.
3. Since 2013, Examiner in defense of theses for MD degrees and habilitations, Charité University Medicine Berlin, Germany.

SUPERVISION OF STUDENTS

Master Students

1. *Alice Kaack*, Free University Berlin, Social, Cognitive and Affective Neurosciences (Master's Degree). Topic: The Role of Immune-Endocrine Interactions in Pre- and Postnatal Depression. Since June 2015 (1st supervisor).
2. *Romy Seidl*, Charité University Medicine Berlin. Medical and Nursing Sciences. Topic: Prevention of Burn-out among Midwives in Training. Since June 2015 (co-supervisor).
3. *Georgina Sket*, Free University Berlin, Social, Cognitive and Affective Neurosciences (Master's Degree). Topic: Neonatal Structural Brain Connectivity and Neurocognitive Development during the First Year of Life. Since June 2015 (1st supervisor).
4. *Philipp Töpfer*, Charité University Medicine Berlin and University of Osnabrück (Diploma in Psychology). Topic: The Influence of Early Life Stress and Current Depression on Immune Function in Pregnancy. Jan – Aug 2014 (1st supervisor).
5. *Clarissa Nafe*, Charité University Medicine Berlin, Medical and Nursing Sciences. Topic: Physical Activity during Pregnancy. Oct 2013 – May 2014 (co-supervisor).

Doctoral Students

1. *Leonie Klaumünzer* (cand. Dr. med.), Charité University Medicine Berlin. Topic: The influence of Omega 3 Fatty Acids on Fetal Brain Development. Since Mai 2015 (1st supervisor).
2. *Saskia Schiller* (cand. Dr. med.), Charité Universitätsmedizin Berlin. Pre- and Postnatal Programming of Infant Stress Reactivity. Since October 2014 (1st supervisor).
3. *Philipp Töpfer* (cand. Dr. rer.medic.), Charité University Medicine Berlin. Topic: Intrauterine Programming of Maternal Behavior. Since September 2014 (1st supervisor).
4. *Jerod Rasmussen* (cand. PhD), University of California Irvine, USA. Topic: Fetal Programming of Infant Neural Circuits that Underlie Appetite Regulation. Since June 2013 (involvement: Doctoral Candidacy Committee, advanced to candidacy in June 2015, co-supervisor).
5. *Nora Moog* (cand. Dr. rer.nat.), Charité University Medicine Berlin und Berlin Graduate School of Mind and Brain. Stipend by the Elsa Neumann Foundation. Topic: The Role of Maternal Thyroid Hormones in Programming Fetal Brain Development. Since January 2013 (1st supervisor).
6. *Judith Overfeld* (cand. Dr. rer.nat.), Charité University Medicine Berlin. Topic: The Influence of Early Life Stress on Child Brain Development. Since January 2013 (co-supervisor).

Postdoctoral Students

1. *Dr. Karen Lindsay*, University of California Irvine, Department of Pediatrics. Topic: Metabolomic Changes over the Course of Pregnancy. Since January 2015 (co-supervisor).
2. *Dr. Alice Graham*, Oregon Health and Science University, NRSAD Fellowship, Topic: Pre- and Postnatal Programming of Infant Neural Networks Implicated in Executive Functioning. Since August 2013 (co-supervisor).
3. *Dr. Molly Fox*, University of California Irvine, Department of Psychiatry and Human Behavior. Topic: Intergenerational Transmission of the Effects of Acculturation on Health. February 2013 – November 2014 (co-supervisor).
4. *Dr. Jessica DeHaene*, University of California Irvine, Department of Psychiatry and Human Behavior. Topic: Maternal Nutrition During Pregnancy and Fetal Development. February 2010 – December 2012 (co-supervisor).

Medical Research Fellows

1. *Satoru Ikenoue*, University of California Irvine, Topic: Intrauterine Stress and Hepatic Blood Flow. Since June 2014 (co-supervisor).
2. Masanao Ohashi, University of California Irvine, Topic: Fetal Predictors of Infant Adiposity. December 2012 – June 2014 (co-supervisor).
3. Kaeko Sumiyoshi, University of California Irvine, Topic: Assessment of Fetal Adiposity Using Ultrasonography. June 2010 – December 2012 (co-supervisor).
4. Annie Nguyen, University of California Irvine, Topic: Quantification of Hepatic Fat in Newborns using Magnetic Resonance Imaging (MRI). December 2010 – June 2012 (co-supervisor).

RESEARCH GRANTS

Current Funding

1. Principal Investigator
Transgenerational Transmission of Maternal Childhood Trauma and its Sequelae
European Research Council Starter Grant
€ 1,200,000 direct costs
11/2015-10/2020
2. Principal Investigator (Co-PI status with Pathik Wadhwa)
Intergenerational Effects of Maternal Childhood Trauma on the Fetal Brain
NIH/National Institute of Mental Health (NIMH)
R01 MH105538
\$ 2,488,650 direct costs
07/2015 - 06/2020
3. Principal Investigator (Co-PI status with Damien Fair)
Early markers to predict cognition and brain development
Gates Foundation
\$ 100,000 direct costs
11/14-10/2015
4. Principal Investigator
Biological Mechanisms of Transgenerational Transmission of Early Life Stress
ERA-NET NEURON European Commission
\$ 1,196,060 direct costs
05/2014-04/2017
5. Principal Investigator
Fetal Programming of the Newborn and Infant Human Brain
NIH/National Institute of Mental Health
R01 MH091351
\$2,203,933 direct costs
12/2010-11/2016 (including a 1-year no-cost extension)

6. Principal Investigator
Fetal Programming of Brain Functional Connectivity in Neonates and Infants
NIH/National Institute of Mental Health
Supplement to R01 MH091351
\$322,324 direct costs
12/2012-11/2016 (including a 1-year no-cost extension)
7. Principal Investigator (Co-PI status with Sonja Entringer)
Brown Adipose Tissue and its Metabolic Correlates in Human Newborns and Infants
NIH/ National Institute of Diabetes and Digestive and Kidney Diseases
R21 RDK098765
\$192,344 direct costs
04/2013-03/2016 (including a 1-year no-cost extension)
8. Co-Investigator (Christine Heim, PI)
Fetal Programming of Brain Development by Maternal Thyroid Hormone and Interleukin-6
Neurocure Excellence Cluster at Charité University Medicine Berlin
\$ 21,544 direct costs
09/2015-12/2015
9. Co-Investigator (Christine Heim, PI)
Biological Embedding of Maltreatment: Berlin Longitudinal Children Study
German Ministry of Science and Education
\$ 2,154,420 direct costs
07/01/2013-06/30/2016
10. Co-Investigator (Sonja Entringer, PI)
Prenatal Stress Biology, Infant Body Composition and Obesity Risk
NIH/National Institute of Child Health and Human Development
R01 HD065825
\$ 1,965,485
07/2010-06/2016 (including a 1-year no-cost extension)
11. Co-Investigator (Pathik D. Wadhwa, PI)
EMA Assessment of Biobehavioral Processes in Human Pregnancy
NIH/National Institute of Child Health and Human Development
R01 HD060628
\$ 2,364,828
02/2010-01/2016 (including a 1-year no-cost extension)
12. Co-Investigator (Pathik D. Wadhwa, PI)
Fetal Programming of Newborn and Infant Telomere Biology
NIH/National Institute of Child Health and Human Development
Type 3 R01 (competitive supplement) HD-060628
\$ 498,892 direct costs
04/13 - 01/2016 (including a 1-year no-cost extension)

Previously held/ completed FundingPrincipal Investigator

13. *National Children's Study Formative Research Study: Self Report and Biological Measures of Maternal Stress Using Ecological Momentary Assessment (EMA) Methodology*
NIH/National Institute of Child Health and Human Development
HHSN-275200503415C
\$ 236,915
10/2010-09/2012
14. Postdoctoral Research Scholarship Award
Maternal Corticotrophin-Releasing Hormone during pregnancy: a predictor for endocrine, cognitive and neural development in six- and seven-year-old Children.
DFG (# BU 2160/3-1)
06/2007-05/2009
15. Doctoral Research Scholarship Award
Pre- and Postnatal Programming of the Hypothalamic-Pituitary-Adrenal Axis Related Outcomes.
Cusanuswerk
07/2003-06/2006

Co-Investigator

16. Co-Investigator (Pathik Wadhwa, PI)
National Children's Study Formative Research Study: Self-Reported Stress and Cortisol Measurement. Development of an Optimized Measure of Chronic Stress in Pregnancy.
NIH/National Institute of Child Health and Human Development
HHSN-275200503415C
\$172,949
10/2010-09/2012
17. Co-Investigator (Sonja Entringer, PI)
National Children's Study Formative Research Study: Biological Moderators of Cortisol in Pregnancy.
NIH/National Institute of Child Health and Human Development
HHSN-275200503415C
\$ 236,326
10/2010-09/2012
18. Co-Investigator (Tim Wigal, PI)
Follow-Up of the Multimodal Treatment Study of Children with Attention Deficit Hyperactivity Disorder (MTA Study)
NIH/National Institute of Drug Abuse
HHSN271200800006C
\$ 1,299,836
04/2010-09/2012

19. Co-Investigator (Curt A. Sandman, PI)
Fetal Programming of Early Development
 NIH/National Institute of Child Health and Human Development
 R01 HD051852
 \$ 2,418,862
 07/06-07/2012

SCHOLARSHIPS AND AWARDS

RESEARCH AWARDS

September 2015 Curt Richter Award by the International Society for Psychoneuroendocrinology

Jun. 2007 – May 2009 **RESEARCH SCHOLARSHIPS**

Fellowship by the German Research Foundation (DFG) for postdoctoral research in developmental psychobiology at the University of California, Irvine, USA

Jul. 2006 – Sep. 2006 Ph.D. scholarship by the University of Trier, Germany

Jul. 2003 – Jun. 2006 Scholarship of the “Cusanuswerk” (Cusanuswerk government scholarship) for Ph.D. studies in Psychology/ Psychobiology at the University of Trier, Germany

TRAVEL AWARDS

Nov. 2009 Developmental Origins of Health and Disease (DOHaD) Society for participation in the society’s annual conference held in Santiago, Chile

Mar. 2009 American Psychosomatic Society (APS) for participation in the society’s annual conference held in Chicago, IL, USA

Feb. 2009 Stipend to attend the Winter Neuropeptide Conference in Breckenridge, CO, USA from the local organizing committee

Aug. 2006 Stipend to attend the Lille Summerschool on Neurplasticity over the Lifespan from the local organizing committee and the German Research Foundation (DFG)

Sep. 2005 German Research foundation (DFG) for participation in the Conference of the International Society for Psychoneuroendocrinology (ISPNE) in Montreal, Canada

- Jul. 2004** International Society for Psychoneuroendocrinology (ISPNE) for participation in the society's annual conference held in Glasgow, UK
- Jul. 2004** German Volkswagen Foundation for participation in the Third Trier Summerschool on Early Programming of Health and Disease, Trier, Germany
- 2003 – 2005** Travel stipends for a collaborative research project by the Douglas Hospital Research Center, McGill University, Canada and the "Cusanuswerk"
- POSTER AWARD**
- Jul. 2006** Lille Summerschool on Neuoplasticity over the Lifespan, Lille, France
"Maternal Care Modulates the Relationship between Prenatal Risk and Hippocampal Volume"

PUBLICATIONS

Journal articles and book chapters, peer-reviewed

H-Index: 29, Citations: 2962

- J1. Buss C, Wolf OT, Witt J, Hellhammer DH. Autobiographic Memory Impairment Following Acute Cortisol Administration. *Psychoneuroendocrinology*, 2004;29(8):1093-6. Impact-Factor: 5.59
- J2. Wolf OT, Kuhlmann S, Buss C, Hellhammer DH, Kirschbaum C. Cortisol and Memory Retrieval in Humans: Influence of Emotional Valence. *Ann N Y Acad Sci*, 2004;1032:195-7. Impact-Factor: 4.38
- J3. Hellhammer J, Fries E, Buss C, Engert V, Tuch A, Rutenberg D, Hellhammer D. Effects of Soy Lecithin Phosphatidic Acid and Phosphatidylserine Complex (PAS) on the Endocrine and Psychological Responses to Mental Stress. *Stress*, 2004;7(2):119-26. Impact-Factor: 3.46
- J4. Lupien SJ, Buss C, Schramek T, Maheu F, Pruessner J. Hormetic Influence of Glucocorticoids on Human Memory. *Nonlinearity in Biology, Toxicology and Medicine*, 2005; 3:23-56. Impact-Factor: 1.23
- BC1. Lupien S, Quellet-Morin I, Hupbach A, Tu MT, Buss C, Walker D, Pruessner JC, McEwen BS. Beyond the Stress Concept: Allostatic Load - A Developmental Biological and Cognitive Perspective, in *Developmental and Psychopathology*, Vol 2. Edited by Cicchetti D, Cohen DJ. Hoboken, New Jersey, Wiley, J. & Sons; 2006
- J5. Buss C, Lord C, Wadiwalla M, Hellhammer DH, Lupien SJ, Meaney MJ, Pruessner JC. Maternal Care Modulates the Relationship between Prenatal Risk and Hippocampal Volume in Women but Not in Men. *Journal of Neuroscience*, 2007; 27(10):2592-5. Impact-Factor: 6.75
- J6. Buss C, Schuelter U, Hesse J, Moser D, Phillips DI, Hellhammer DH, Meyer J. Haploinsufficiency of the SERPINA6 Gene is Associated with Severe Muscle Fatigue: A de Novo Mutation in Corticosteroid-Binding Globulin Deficiency. *Journal of Neural Transmission*, 2007; 114(5):563-9. Impact-Factor: 2.87
- B1. Buss C. Pre- and Postnatal Programming of Hypothalamic-Pituitary-Adrenal Axis Related Outcomes - Potential Causes of Interindividual Variability in Disease Susceptibility. 2007.

- J7. Lord C, Buss C, Lupien SJ, Pruessner JC. Hippocampal Volumes are Larger in Postmenopausal Women using Estrogen Therapy Compared to Past Users, Never Users and Men: A possible Window of Opportunity Effect. *Neurobiology of Aging*, 2008; 29(1):95-101. Impact-Factor: 4.85
- J8. Pruessner J C, Dedovic K, Khalili-Mahani N, Engert V, Pruessner M, Buss C, Renwick R, Dagher A, Meaney M J, Lupien S. Deactivation of the Limbic System during Acute Psychosocial Stress: Evidence from Positron Emission Tomography and Functional Magnetic Resonance Imaging Studies. *Biol Psychiatry*, 2008; 63(2):234-40. Impact-Factor: 9.47
- J9. Class QA, Buss C, Davis EP, Gierczak M, Pattillo C, Chicz-DeMet A, Sandman CA. Low Levels of Corticotrophin-Releasing Hormone during Early Pregnancy Are Associated with Precocious Maturation Of The Human Fetus. *Dev Neurosci*, 2008; 30(6):419-26. Impact-Factor: 2.45
- BC2. Wolf O & Buss C. Effect of Chronic Stress on Cognitive Function through Life. Foresight Mental Capital and Mental Wellbeing Office of Science and Innovation (UK), 2008; <http://www.foresight.gov.uk/OurWork/ActiveProjects/Mental%20Capital/ProjectOutputs.asp>
- J10. Entringer S, Buss C, Kumsta R, Hellhammer DH, Wadhwa PD, Wüst S. Prenatal Psychosocial Stress Exposure is Associated with Subsequent Working Memory Performance in Young Women. *Behav Neurosci*, 2009; 123(4):886-93. Impact-Factor: 3.25
- J11. Buss C, Entringer S, Jonazary FR, Chicz-DeMet A, Sandman CA, Waffarn F, Wadhwa PD. The Maternal Cortisol Awakening Response in Human Pregnancy is Associated with the Length of Gestation. *American Journal of Obstetrics and Gynecology*, 2009; 201 (4):398 e1-8. Impact-Factor: 3.97
- J12. Buss C, Davis EP, Class QA, Gierczak M, Pattillo C, Chicz-DeMet A, Glynn L, Sandman CA. Maturation of the Human Fetal Startle Response: Evidence for Sex-specific Maturation of the Human Fetus. *Early Human Development*, 2009; 85(10):633-8. Impact-Factor: 1.93
- J13. Wadhwa PD, Buss C, Entringer S, Swanson J. Developmental Origins of Health and Disease: Brief History of the Approach and Current Focus on Epigenetic Mechanisms. *Seminars in Reproductive Medicine*, 2009; 27(5):358-368. Impact-Factor: 3.0
- J14. Swanson JM, Entringer S, Buss C, Wadhwa PD. Developmental Origins of Health and Disease: Environmental Exposures. *Seminars in Reproductive Medicine*, 2009; 27 (5):391-402. Impact-Factor: 3.0
- J15. Buss C, Davis EP, Muftuler T, Head K, Sandman CA. High Pregnancy Anxiety during Mid-gestation is Associated with Decreased Gray Matter Density in 6-9 year-old Children. *Psychoneuroendocrinology*, 2010; 35(1):141-53. Impact-Factor: 5.59
- J16. Pruessner JC, Dedovic K, Pruessner M, Lord C, Buss C, Collins L, Dagher A, Lupien SJ. Stress Regulation in the Central Nervous System: Evidence from Structural and Functional Neuroimaging Studies in Human Populations. *Psychoneuroendocrinology*, 2010; 35(1):179-91. Impact-Factor: 5.59
- J17. Wadiwalla M, Andrews J, Lai B, Buss C, Lupien SJ, Pruessner JC. Effects of Manipulating the Amount of Social-evaluative Threat on the Cortisol Stress Response in Young Healthy Women, *Stress*, 2010; 13(3):214-20. Impact-Factor: 3.46
- J18. Hellhammer J, Waladkhani A, Hero T, Buss C. Effects of Milk Phospholipid on Memory and Psychological Stress Response. *British Food Journal*, 2010; 112(10):1124-1137. Impact-Factor: 0.65

- J19. Entringer S, Buss C, Shirtcliff EA, Cammack AL, Yim IS, Chicz-DeMet A, Sandman CA, Wadhwa PD. Attenuation of Maternal Psychophysiological Stress Responses and the Maternal Cortisol Awakening Response over the Course of Human Pregnancy. *Stress*, 2010; 13(3):258-68. Impact-Factor: 3.46
- J20. Engert V, Buss C, Khalili-Mahani N, Wadiwalla M, Dedovic K, Pruessner JC. Investigating the Association between Early Life Parental Care and Stress Responsivity in Adulthood. *Developmental Neuropsychology*, 2010; 35(5):570-81. Impact-Factor: 2.67
- J21. Entringer S, Buss C, Wadhwa PD. Prenatal Stress and Developmental Programming of Human Health and Disease Risk: Concepts and Integration of Empirical Findings. *Current Opinion in Endocrinology, Diabetes and Obesity*, 2010; 17(6):507-16. Impact-Factor: 3.77
- J22. Buss C, Davis EP, Hobel, CJ, Sandman CA. Maternal Pregnancy-specific Anxiety is Associated with child executive function at 6-9 years age. *Stress*, 2011; 14(6):665-676. Impact-Factor: 3.46
- J23. Davis EP, Buss C, Muftuler LT, Head K, Hasso A, Wing DA, Hobel C, Sandman CA. Children's Brain Development Benefits from Longer Gestation. *Frontiers in Developmental Psychology*, 2011; 2:1-7.
- J24. Cammack AL, Buss C, Entringer S, Hogue CJ, Hobel CJ, Wadhwa PD. The Association between Early Life Adversity and Bacterial Vaginosis during Pregnancy. *American Journal of Obstetrics and Gynecology*, 2011; 204(5):431.e1-8. Impact-Factor: 3.77
- J25. Sandman CA, Davis EP, Buss C, Glynn LM. Exposure to Prenatal Psychobiological Stress Exerts Programming Influences on the Mother and her Fetus. *Neuroendocrinology*, 2012; 95(1): 8-21. Impact-Factor: 4.93
- J26. Sandman CA, Davis EP, Buss C, Glynn LM. Prenatal Programming of Human Neurological Function. *International Journal of Peptides Int J Pept.* 2011; 2011: 837596. Impact-Factor: 0.83
- J27. Entringer S, Buss C, Andersen J, Chicz-DeMet A, Wadhwa PD. Ecological Momentary Assessment of Maternal Cortisol Profiles Over a Multiple-Day Period Predicts the Length of Human Gestation. *Psychosomatic Medicine*, 2011; 73(6):469-74. Impact-Factor: 4.09
- J28. Muftuler LT, Davis EP, Buss C, Head K, Hasso AN, Sandman CA. Cortical and Subcortical Changes in Typically Developing Preadolescent Children. *Brain Research*, 2011; 1399:15-24. Impact-Factor: 2.83
- J29. Hatfield T, Wing DA, Buss C, Head K, Muftuler LT, Davis EP. Magnetic Resonance Imaging Demonstrates Long Term Changes in Children Born Preterm and Exposed to Chorioamnionitis. *American Journal of Obstetrics and Gynecology*, 2011; 205(4):384.e1-8. Impact-Factor: 3.77; Citations: 8
- J30. Wadhwa PD, Entringer S, Buss C, Lu MC. The Contribution of Maternal Stress to Preterm Birth: Issues and Considerations. *Clinics in Perinatology*, 2011; 38(3):351-84. Impact-Factor: 2.13
- J31. Sandman CA, Cordova C, Davis EP, Glynn LM, Buss C. Patterns of Fetal Heart Rate Response at ~ 30 Weeks Gestation Predict Size at Birth. *Journal of Developmental Origins of Health and Disease*, 2011; 2(4):212-217. Impact-Factor: 0.77
- J32. Entringer S, Buss C, Swanson JM, Cooper DM, Wing DA, Waffarn F, Wadhwa PD. Fetal Programming of Body Composition, Obesity and Metabolic Function: the Role of Intrauterine Stress and Stress Biology. *Journal of Nutrition and Metabolism*, 2012; 2012:632548. Impact-Factor: 3.36

- J33. Buss C, Davis EP, Shahbaba B, Pruessner JC, Head K, Sandman CA. Maternal Cortisol over the Course of Pregnancy and Subsequent Child Amygdala Volume and Affective Problems. *Proceedings of the National Academy of Sciences of the United States of America*, 2012; 09(20):E1312-9. Impact-Factor: 9.81
- J34. Buss C/Entringer S, Davis EP, Hobel CJ, Swanson JM, Wadhwa PW, Sandman CA. Impaired Executive Function Mediates the Association between Pre-pregnancy Body Mass Index and Child ADHD Symptoms. *PLoS One*, 2012; 7(6):e37758. Impact-Factor: 3.53
- J35. Buss C, Entringer S, Swanson JM, Wadhwa PW. The Role of Stress in Brain Development: The Gestational Environment's Long-Term Effects on the Brain. *Cerebrum*, 2012; 4.
- J36. Muftuler LT, Davis EP, Buss C, Solodkin A, Su MY, Head K, Hasso AN, Sandman CA. Development of White Matter Pathways in Typically Developing Preadolescent Children. *Brain Research*, 2012; 1466:33-43. Impact-Factor: 2.83
- J37. Wadhwa PD, Simhan HN, Entringer S, Buss C, Smith R, Hobel CH, Farhana N, Shimmin L, Hixson JE, Sing CF. Variation in the Maternal Corticotrophin Releasing Hormone-Binding Protein (CRH-BP) Gene and Birth Weight in Blacks, Hispanics and Whites. *PLoS One*, 2012;7(9):e43931. Impact-Factor: 3.53
- J38. Buss C, Entringer S, Wadhwa PD. Fetal Programming of Brain Development: intrauterine Stress and Susceptibility to Psychopathology. *Science Signaling*, 2012; 5(245):pt7. Impact-Factor: 6.34
- J39. Entringer S, Buss C, Wadhwa PD. Prenatal Stress, Telomere Biology, and Fetal Programming of Health and Disease. *Science Signaling*, 2012; 5(248):pt12. Impact-Factor: 6.34
- J40. Entringer S, Epel ES, Lin J, Buss C, Shahbaba B, Blackburn EH, Simhan HN, Wadhwa PD. Maternal Psychosocial Stress during Pregnancy is Associated with Newborn Leukocyte Telomere Length. *American Journal of Obstetrics and Gynecology*, 2013; 208(2):134, e1-7. Impact-Factor: 3.77
- J41. Davis EP, Sandman CA, Buss C, Wing DA, Head. Fetal Glucocorticoid Exposure is Associated with Preadolescent Brain Development. *Biological Psychiatry*, 2013; 74:647-655. Impact-Factor: 9.47
- J42. Reynolds R, Labad J, Buss C, Ghaemmaghami P, Räikkönen K. Transmitting Biological Effects of Stress in utero: Implications for Mother and Offspring. *Psychoneuroendocrinology*, 2013; 38(9):1843-9. Impact-Factor: 5.59
- J43. Lin M, Fwu PT, Buss C, Davis EP, Head K, Muftuler TL, Sandman CA, Su MY. Developmental Changes in Hippocampal Shape among Preadolescent Children. *International Journal of Developmental Neuroscience*, 2013; 31(7):473-481. Impact-Factor: 2.92
- J44. Voellmin A, Entringer S, Moog N, Wadhwa PD, Buss C. Maternal Positive Affect over the Course of Pregnancy is Associated with the Length of Gestation and Reduced Risk of Preterm Delivery, *Journal of Psychosomatic Research*, 2013; 75:336-340. Impact-Factor: 2.84
- J45. Tamm, L., Epstein, J.N., Lisdahl, K.M., Molina, B., Tapert, S., Hinshaw, S. P., Arnold, L.E., Velanova, K., Abikoff, H., Swanson, J.M., & MTA Neuroimaging Group. Impact of ADHD and Cannabis Use on Executive Functioning in Young Adults. *Drug and Alcohol Dependence*, 2013; 133(2):607-14. Impact-Factor: 3.28
- J46. Rasmussen JM, Entringer S, Nguyen A, van Erp TGM, Guijarro A, Oveisi F, Swanson JM, Piomelli D, Wadhwa PD, Potkin SG/Buss C. Brown adipose tissue quantification in human neonates using water-fat separated MRI. *PLoS ONE*, 2013; 8(10):e 77907. Impact-Factor: 3.53

- J47. Sandman CA, Head K, Muftuler TL, Su L, Buss C, Davis EP. Shape of the Basal Ganglia in Preadolescent Children is Associated with Cognitive Performance. *Neuroimage*, 2014; 99:93-102. Impact-Factor: 6.13
- J48. Kim DJ, Davis EP, Sandman CA, Sporns O, O'Donnell BF, Buss C, Hetrick WP. Longer Gestation Is Associated with More Efficient Brain Networks in Preadolescent Children. *Neuroimage*, 2014; 100:619-27. Impact-Factor: 6.13
- J49. Sandman CA, Buss C, Head K, Davis EP. Fetal Exposure to Maternal Depressive Symptoms is Associated with Cortical Thickness in Late Childhood. *Biological Psychiatry*, 2015, 77(4):324-34. Impact-Factor: 9.47
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- J54. Rasmussen JM, Casey BJ, van Erp TGM, Tamm L, Epstein JN, Buss C, Bjork JM, Molina BSG, Velanova K, Mathalon DH, Somerville L, Swanson JM, Wigal T, Arnold LE, Potkin SG, MTA Neuroimaging Group. ADHD and Cannabis Use in Young Adults Examined Using fMRI of a Go/NoGo Task. *Brain Imaging and Behavior* [Epub ahead of print]. Impact-Factor: 4.59
- J55. Buss C/Entringer S, Wadhwa PD. Prenatal stress, development, health and disease risk: a psychobiological perspective - 2015 Curt Richter Award Paper. *Psychoneuroendocrinology*; 62:366-375. Impact-Factor: 5.59
- J56. Moog NK, Buss C, Entringer S, Shahbaba B, Gillen DL, Hobel CJ, Wadhwa PD. Maternal Exposure to Childhood Trauma is Associated during Pregnancy with Placental-Fetal Stress Physiology. *Biological Psychiatry* [Epub ahead of print]. Impact-Factor: 9.47
- J57. Graham AM, Buss C, Rasmusen J, Rudolph MD, Demeter DV, Gilmore JH, Styner M, Entringer S, Wadhwa PD, Fair DA. Implications of Newborn Amygdala Connectivity for Fear and Cognitive Development at 6-months-of- Age. *Developmental Cognitive Neuroscience* [Epub ahead of print]. Impact-Factor: 3.83
- J58. Kim DJ, Davis EP, Sandman CA, Sporns O, O'Donnell BF, Buss C, Hetrick WP. Children's intellectual ability is associated with structural network integrity. *Neuroimage*, 2015, 124, PtA:550-556. [Epub ahead of print]. Impact-Factor: 6.13
- J59. Newman E, Jernigan TL, Lisdahl KM, Tamm L, Tapert SF, Potkin SG, Mathalon D, Molina B, Bjork J, Castellanos F X, Swanson J, Kuperman JM, Bartsch H, Chen C, Dale AM, Epstein JN, & MTA Neuroimaging Group. Go/No Go Task Performance Predicts Cortical Thickness in the Caudal

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- J60. Moog N, Entringer S, Heim CM, Wadhwa PD, Kathmann N, Buss C. Influence of Maternal Thyroid Hormones during gestation on fetal Brain Development. *Neuroscience* [Epub ahead of print]. Impact-Factor: 3.5
- J61. Lindsay KL, Hellmuth C, Uhl O, Buss C, Wadhwa PD, Koletzko B, Entringer S. Longitudinal Metabolomic Profiling of Amino Acids and Lipids across Healthy Pregnancy. *PLOS one Neuroscience* [Epub ahead of print]. Impact-Factor: 3.53
- J62. Schoemaker D, Buss C, Head K, Sandman CA, Davis EP, Chakravarty MB, Gauthier S, Pruessner JC. Hippocampus and Amygdala Volumes from Magnetic Resonance Images in Children: Assessing Accuracy of Freesurfer and FSL against Manual Segmentation. *Neuroimage* (in press). Impact-Factor: 6.13

Published Abstracts, peer-reviewed

1. Buss C, Wadiwalla M, Hellhammer DH, Meaney MJ, Lupien SJ, Pruessner JC. The Impact of Fetal Growth on the Adrenocortical Stress Response is Gender-specific. *Early Human Development*, 2006; 82 (8):533-533.
2. Buss C, Wadiwalla M, Hellhammer DH, Meaney MJ, Pruessner JC, Lupien SJ. Early Adversity Affects Glucocorticoid Memory Modulation. *Journal of Psychophysiology*, 2006; 20(2):109-109.
3. Pruessner JC, Buss C, Mahani NK, Lupien SJ, Meaney MJ. Deactivation of the Limbic System during Perception of Psychosocial Stress: Evidence from PET and fMRI Studies. *Journal of Psychophysiology*, 2006; 20(2):109-110.
4. Buss C, Floro JN, Andersen J, Mavandadi S, Wadhwa PD. Impact of Maternal Psychosocial Stress on Birth Outcomes: a Meta-analysis. *Early Human Development*, 2007; 83:173-174.
5. Buss C, Class QA, Tan ET, Gierczak M, Patillo C, Sandman CA. Fetal Heart Rate Responses over Pregnancy Predict Infant Mental and Motor Development During the First Year of Life. *Early Human Development*, 2007; 83:114-115.
6. Buss C, Wadiwalla M, Mahani NK, Scherling C, Meaney MJ, Lupien SJ, Pruessner JC. Early Adversity as a Determinant of Successful Aging. *Biological Psychiatry*, 2007; 61(8):103S-103S.
7. Wadiwalla M, Buss C, Pruessner JC. The Dorsolateral Prefrontal Cortex (DLPFC) - A Structural Correlate of Self Esteem? *Biological Psychiatry*, 2007; 61(8):220S-220S.
8. Buss C, Entringer S, Cammack AL, Reyes JF, Chicz-Demet A, Sandman CA, Wadhwa PD. Attenuation of the Cortisol Awakening Response (CAR) over the Course of Human Gestation is Associated with Gestational Age at Birth. *American Journal of Obstetrics & Gynecology*, 2008; 199 (6):S23.
9. Duchesne A, Mahani NK, Buss C, Wadiwalla M, Dedovic K, Pruessner JC. Gender Differences in Neural Activation Changes during Psychosocial Stress. *International Journal of Neuropsychopharmacology*, 2008; 100-100.

10. Entringer S, Buss C, Andersen J, Chicz-Demet A, Sandman CA, Wadhwa PD. Repeated Ambulatory Assessments of Maternal Cortisol over a Multiple-day Period Predict Length of Gestation and Birth Weight. *American Journal of Obstetrics & Gynecology*, 2008; 199(6):S56.
11. Entringer S, Buss C, Chicz-Demet A, Sandman CA, Wadhwa PD, Hobel CJ. Homeostatic Implications for a Relationship between Placental Corticotrophin-releasing hormone (PCRH) and Umbilical Artery Blood Flow in Human Pregnancy. *American Journal of Obstetrics & Gynecology*, 2009; 201(6):S117.
12. Buss C, Davis EP, Class Q, Crippen C, Canino C, Gierczak M, Holliday C, Sandman CA. Fetal Heart Rate Responses over Pregnancy Predict Infant Mental and Motor Development during the First Year of Life. *Infant Mental Health Journal*, 2010; 32(3):S279.
13. Buss C, Davis, EP, Entringer S, Wadhwa PD, Sandman CA. The impact of Maternal Prenatal Pregnancy-specific Anxiety on Infant and Child Neurodevelopmental Outcomes. *Longitudinal and Life Course Studies*, 2010; 1(3), Supplement.
14. Buss C, Davis EP, Pruessner JC, Muftuler T, Head K, Hasso A, Hobel CJ, Sandman CA. Increased Risk for Affective Disorders Programmed *In Utero*? High Prenatal Maternal Cortisol and Volumes of the Amygdala and Hippocampus in the Offspring At 6-9 Years. *Biological Psychiatry*, 2011; 69(9):S110.
15. Buss C, Davis EP, Pruessner JC, Muftuler T, Head K, Hasso A, Hobel CJ, Sandman CA. Increased Risk for Affective Disorders Programmed *In Utero*? High Prenatal Maternal Cortisol and Volumes of the Amygdala and Hippocampus in the Offspring At 6-9 Years. *Journal of Developmental Origins of Health and Disease*, 2011; 2:S37.
16. Entringer S, De Haene J, Buss C, Mathew L, Stotland N, Havel P, Wadhwa PD, Culhane J, King J. Pre-pregnancy BMI, but not weight gain during pregnancy, is associated with maternal systemic inflammation during pregnancy in two independent cohorts. *Diabetes*, 2011;60 (Supplement 1):A118.
17. Davis EP, Buss C, Muftuler L, Wing DA, Head K. Prenatal Glucocorticoid Treatment Influences Human Brain Development. *Journal of Developmental Origins of Health and Disease*, 2011; 2:S52.
18. Entringer S, Buss C, Davis E, Wadhwa PD, Sandman CA. Maternal Pre-pregnancy Body Mass Index is Associated with ADHD Symptoms and Impaired Inhibitory Control in 6-9 year Old Children. *Neuropsychopharmacology*, 2011, 36:S237.
19. Sumiyoshi K, De Haene J, Buss C, Waffarn F, Sameshima H, Wadhwa PD, Entringer S. Human Fetal Body Composition: Effects of Protective Maternal Dietary Factors. *Ultrasound in Obstetrics & Gynecology*, 2012, 40 (S1), 288-288.
20. Buss C, Entringer S, Davis EP, Hobel CJ, Swanson JM, Wadhwa PD, Sandman CA. Maternal Pre-pregnancy Obesity and Child ADHD symptoms, Executive Function and Cortical Thickness. *European Journal of Psychotraumatology Supplement 1*, 2012, 3: 19554 - <http://dx.doi.org/10.3402/ejpt.v3i0.19554>
21. Entringer S, Epel ES, Lin J, Buss C, Blackburn EH, Simhan HN, Wadhwa PD. Prenatal Programming of Newborn and Infant Telomere Length. *European Journal of Psychotraumatology Supplement 1*, 2012, 3: 19554 - <http://dx.doi.org/10.3402/ejpt.v3i0.19554>
22. Moog N, Buss C, Entringer S, Sandman CA, Wadhwa PD. Exposure to Childhood Trauma among Pregnant Women Is Associated with Increased Placental CRH Production over Gestation. *European*

Journal of Psychotraumatology Supplement 1, 2012, **3**: 19554 -
<http://dx.doi.org/10.3402/ejpt.v3i0.19554>

23. Buss C, Pruessner JC, Mayberg H, Mletzko T, Nemeroff C, Heim CM. Larger Amygdala Volumes after Childhood Trauma Associated with Depression and Cortisol Response to Psychosocial Stress in Adulthood. *European Journal of Psychotraumatology Supplement 1*, 2012, **3**: 19554 -
<http://dx.doi.org/10.3402/ejpt.v3i0.19554>
24. Entringer S, Buss C, Wadhwa PD. Maternal Cortisol Concentrations during Pregnancy and Infant Adiposity. *Psychoneuroendocrinology* [Epub ahead of print].
25. Buss C, Graham AM, Rasmussen J, Entringer S, Gilmore JH, Styner M, Wadhwa PD, Fair DA. Lack of maternal stress dampening during pregnancy is associated with altered neonatal amygdala connectivity. *Psychoneuroendocrinology* [Epub ahead of print].
26. Overfeld J, Entringer S, Rasmussen J, Consing KN, Gilmore JH, Styner M, Heim CM, Wadhwa PD, Buss C. Neonatal amygdala volume modulates the effects of the early caregiving environment on infant social development. *Psychoneuroendocrinology* [Epub ahead of print].

INVITED PRESENTATIONS

1. *Prenatal Programming of Human Brain Development*. Grand Rounds Department of Psychiatry and Human Behavior, University of California, Irvine, USA, December 2009.
2. *Impact of Prenatal Factors on Cognitive Development*. Invited presentation at the University of Bonn, Germany, February 2011.
3. *Prenatal Programming of Susceptibility for Mental Disorders*. Invited lecture at For OC Kids Neurodevelopmental Center, Orange, CA, July 2011.
4. *Developmental Programming of Health and Disease*. Orange County Health Care Agency, Santa Ana, CA, July 2011.
5. *Fetal Programming of Newborn and Infant Brain Development and Obesity Risk*. Grand Rounds Department of Epidemiology, University of California, Irvine, USA, July 2011.
6. *Prenatal Programming of Neurocognitive Development*. Invited presentation at the Charité, Berlin, Germany, February 2012.
7. *Early Life Origins of Psychopathology Susceptibility*. Invited lecture at the McGill Centre for Studies in Aging, McGill University, Montreal, Canada, March 2012.
8. *Fetal Programming of Neurocognitive Development - Considering the role of intrauterine stress and stress biology in programming susceptibility for psychopathology*. Invited speaker at the European Society for Pediatric Endocrinology, Crete, Greece, May 2012.
9. *Fetal Programming of Brain Development - Role of Intrauterine Stress and Stress Biology in Susceptibility for Psychopathology*. Invited lecture at the Laboratory for Experimental Fetal Maternal Medicine at the University of Hamburg Eppendorf, Hamburg, Germany, August 2012.
10. *Fetal Programming of Brain Development - Role of Intrauterine Stress and Stress Biology in Susceptibility for Psychopathology*. Grand rounds at the Department of Psychiatry and

- Psychotherapy at the Charité Campus Mitte, Berlin, Germany, February 2013.
11. *Prenatal Programming of Susceptibility for Psychiatric Disorders*. Psychiatry Platform in the context of the Berlin Institute of Health (BIH), Berlin, Germany, June 2013.
 12. *Fetal Programming of Brain Development - Role of Intrauterine Stress and Stress Biology in Susceptibility to Psychopathology*. Endocrine Society, San Francisco, CA, USA, June 2013.
 13. *Fetal Programming of Brain Development - Role of Intrauterine Stress and Stress Biology in Susceptibility to Psychopathology*. University of Edinburgh, UK, January 2014.
 14. *Prenatal Endocrine and Immune Stress Biology and Newborn Brain Maturity*. NIMH Workshop: Pushing Translational Boundaries: Advances in Developmental Neuroimmunology & Mental Health. Bethesda, MD, USA, May 2014.
 15. *Programming of Fetal Brain Development*. Neurocure Lunch Seminar Series, Charité, University Medicine, Berlin, Germany, June 2014.
 16. *Early Life Stress and Neurodevelopment*. Northwestern University, Department of Medical Social Sciences, Chicago, IL, USA, August 2014.
 17. *Fetal Programming of Brain Development - Role of Intrauterine Stress and Stress Biology in Susceptibility to Psychopathology*. Department of Clinical Science, University of Turku, September 2014.
 18. *Early Life Stress and Brain Development – Implications for Cognitive Function and Mental Health*. Memory Symposium by the Gyllenberg Foundation “From neurobiological underpinnings to reminiscences in culture, Helsinki, Finland, September 2014.
 19. *Fetal Programming of Neurodevelopment and Risk for Psychiatric Disorders – the Role of Intrauterine Stress and Stress Biology*. University of Helsinki, Finland, Institute of Behavioural Sciences, November 2014.
 20. *Early Life Stress and Brain Development – Implications for Cognitive Function and Mental Health*. Leibniz Institute for Zoo and Wildlife Research, December 2014.
 21. *Stress and Trauma during Early Life – Consequences for the Next Generation?* Urania, Berlin, May 2015.
 22. *Fetal Programming of Neurodevelopment and Risk for Psychiatric Disorders – the Role of Intrauterine Stress and Stress Biology*. Department of Medical Genetics, University of British Columbia, Vancouver, BC, August 2015.
 23. *Prenatal Programming of Brain Development*. Invited lecture at research colloquium for Master students. Department of Psychology, University of Zurich, Switzerland, September 2015.
 24. *Frühe Ursprünge psychiatrischer Störungen – Wie früher Stress die Gehirnentwicklung beeinflussen kann*. SPZ-Symposium, Winterthur, Switzerland, November 2015.
 25. *Pränatale Programmierung der Gehirnentwicklung – Implikationen für kognitive Leistungsfähigkeit und mentale Gesundheit*. Universität Konstanz, January 2016.

26. *Developmental Programming of Brain Development - Implications for Mental Health and Disease.* Ruhr Universität Bochum, January 2016.

PRESENTATIONS

Conference Presentations, peer-reviewed (Oral Presentations)

1. Buss C, Lord C, Wadiwalla M, Hellhammer DH, Lupien SJ, Meaney MJ, Pruessner JC. Effects of Pre- and Postnatal Adversity on Hippocampal Volume in Healthy Adults: Accumulating Risk and Potential for Compensation. *International Society for Psychoneuroendocrinology*. Montreal, Canada, October 2005.
2. Buss C, Wadiwalla M, Hellhammer DH, Meaney MJ, Pruessner JC, Lupien SJ. Early Adversity Affects Glucocorticoid Memory Modulation. *DGPA*. Dresden, Germany, June 2006.
3. Buss C, Wadiwalla M, Khalili Mahani N, Scherling C, Meaney MJ, Lupien SJ, Pruessner JC. Early Adversity as a Determinant of Successful Aging. *Biological Psychiatry*. San Diego, CA, USA, May 2007.
4. Buss C, Entringer S, Wadhwa PD. Development, Health and Disease: a Biobehavioral Perspective. *The American Psychiatric Association*. San Diego, CA, USA, May 2007.
5. Buss C, Class Q, Tan ET, Gierczak M, Patillo C, Davis EP, Sandman CA. Fetal Heart Rate Responses across Pregnancy Predict Infant Mental and Psychomotor Development during the First Year of Life. *International Society for Developmental Psychobiology*. San Diego, CA, USA, November 2007.
6. Buss C, Entringer S, Cammack AL, Federenko IS, Reyes JF, Sandman CA, Wadhwa PD. Changes in the Cortisol Awakening Response during Pregnancy and Postpartum. *International Society for Psychoneuroendocrinology*. Dresden, Germany, July 2008.
7. Buss C, Entringer S, Reyes JF, Chicz-DeMet A, PhD, Waffarn F, Sandman CA, Wadhwa PD. Attenuation of the Cortisol Awakening Response (CAR) over the Course of Human Gestation is Associated with Gestational Age at Birth. *Society for Maternal Fetal Medicine*. San Diego, CA, USA, January 2009.
8. Buss C, Davis EP, Su L, Muftuler T, Head K, Sandman CA. Placental Corticotropin Releasing Hormone (CRH) Concentrations During Gestation and Structural Brain Differences in 6-9 year-old Children. *Winter Neuropeptide Conference*. Breckenridge, CO, USA, February 2009.
9. Buss C, Entringer S, Jonazary FR, Chicz-DeMet A, Sandman CA, Waffarn F, Wadhwa PD. Attenuation of the Cortisol Awakening Response (CAR) over the Course of Human Gestation is Associated with Gestational Age at Birth. *The American Psychosomatic Society*. Chicago, IL, USA, March 2009.
10. Buss C, Davis EP, Muftuler T, Head K, Sandman CA. High Pregnancy Anxiety during Mid-gestation is Associated with Decreased Gray Matter Density in 6-9 year-old Children. *International Society for Psychoneuroendocrinology*. San Francisco, CA, USA, July 2009.
11. Buss C, Davis EP, Muftuler T, Head K, Sandman CA. High Pregnancy Anxiety During Mid-Gestation is Associated with Decreased Gray Matter Density in 6-9 year-old Children. *World Congress on the Developmental Origins of Health and Disease*. Santiago, Chile, November 2009.

12. Buss C, Davis EP, Muftuler T, Head K, Sandman CA. Developmental Programming of Fetal and Infant Neurodevelopment. *Trends in Psychiatric Genetics and Neurobiology*. Breckenridge, CO, USA, March 2010.
13. Buss C, Davis, EP, Entringer S, Wadhwa PD, Sandman CA. The Impact of Maternal Prenatal Pregnancy-specific Anxiety on Infant and Child Neurodevelopmental Outcomes. *Conference of Epidemiological Longitudinal Studies in Europe*. Paphos, Cyprus, October 2010.
14. Buss C, Davis EP, Muftuler T, Head K, Sandman CA. The Impact of Maternal Prenatal Pregnancy-specific Anxiety on Infant and Child Neurodevelopmental Outcomes. *Gatlinburg Conference*. San Antonio, TX, USA, March 2011.
15. Buss C, Davis EP, Muftuler T, Head K, Sandman CA. The Impact of Maternal Prenatal Pregnancy-specific Anxiety on Infant and Child Neurodevelopmental Outcomes. *Western Psychological Association*. Los Angeles, CA, USA. April 2011.
16. Buss C, Davis EP, Pruessner JC, Muftuler T, Head K, Hasso A, Hobel CJ, Sandman CA. Increased Risk for Affective Disorders Programmed *In Utero*? High Prenatal Maternal Cortisol and Volumes of the Amygdala and Hippocampus in the Offspring At 6-9 Years. *Biological Psychiatry*. San Francisco, CA, USA, May 2011.
17. Buss C, Davis EP, Pruessner JC, Muftuler T, Head K, Hasso A, Hobel CJ, Sandman CA. Increased Risk for Affective Disorders Programmed *In Utero*? High Prenatal Maternal Cortisol and Volumes of the Amygdala and Hippocampus in the Offspring At 6-9 Years. *International Society for Psychoneuroendocrinology*, Berlin, Germany, August 2011.
18. Buss C, Entringer S, Davis EP, Sandman CA, Swanson JM, Wadhwa PD. Fetal Programming of Brain Development-Programming Susceptibility for Attention-Deficit-Hyperactivity Disorder? *Society of the Children and Adults with ADHD (CHADD) Society*, Orlando, FL, USA, November 2011.
19. Buss C, Entringer S, Rasmussen J, Potkin S, Swanson JM, Wadhwa PD. Fetal Programming of Brown Adipose Tissue. *International Society for Psychopharmacology*, Waikoloa, HI, USA, December 2011.
20. Buss C, Entringer S, Davis EP, Hobel CJ, Swanson JM, Wadhwa PD, Sandman CA. Maternal Pre-pregnancy Obesity and Child ADHD symptoms, Executive Function and Cortical Thickness. *International Society for Psychoneuroendocrinology*, New York City, NY, USA, September 2012.
21. Buss C, Entringer S, Moog N, Heim C, Wadhwa PD. Prenatal Biological Pathways of Transgenerational Transmission of Early Life Stress. *International Society for Psychoneuroendocrinology*, Leiden, Holland, August 2013.
22. Buss C, Entringer S, Moog N, Heim C, Wadhwa PD. Prenatal Biological Pathways of Transgenerational Transmission of Early Life Stress. *Society of the Developmental Origins of Health and Disease*, Singapore, November 2013.
23. Buss C, Entringer S, Moog N, Gilmore JH, Styner M, Fair D, Wadhwa PD. Maternal Cortisol Concentrations during Pregnancy and Newborn Brain Connectivity. International Conference on Infant Studies. Berlin, Germany, July 2014.
24. Buss C, Entringer S, Moog N, Gilmore JH, Styner M, Wadhwa PD. Maternal Cortisol Concentrations during Pregnancy and Child Limbic Brain Structures. *International Society for Psychoneuroendocrinology*, Montreal, Canada, August 2014.

25. Buss C, Graham AM, Rudolph MD, Rasmussen J, Potkin SG, Entringer S, Wadhwa PD, Fair D. Maternal Interleukin-6 Concentrations during Pregnancy and Newborn Functional Brain Connectivity. *Society for Neuroscience*, Washington D.C., USA, November 2014.
26. Buss C, Graham AM, Rudolph MD, Rasmussen J, Potkin SG, Entringer S, Wadhwa PD, Fair D. Maternal Inflammation during Pregnancy and Newborn Functional Brain Connectivity - How the *in utero* Milieu May Impact Susceptibility for Psychopathology. *Society for Neuroscience Press Conference*, Washington D.C., USA, November 2014.
27. Buss C, Entringer S, Rasmussen J, Consing KZ, Gilmore JH, Styner M, Wadhwa PD. Newborn Limbic Structure Volumes Modulate Differential Susceptibility to the Postnatal Environment. *Society for Research in Child Development*, Philadelphia, PA, USA, March 2015.
28. Buss C, Graham AM, Rasmussen J, Entringer S, Gilmore JH, Styner M, Wadhwa PD, Fair DA. Lack of Maternal Stress Dampening during Pregnancy is Associated with Altered Neonatal Amygdala Connectivity. International Society for *Psychoneuroendocrinology*, Edinburgh, Scotland, September 2015.
29. Buss C/Entringer S, Wadhwa PD. Prenatal Stress, Development, Health and Disease Risk: a Psychobiological Perspective. International Society for *Psychoneuroendocrinology*, Edinburgh, Scotland, September 2015.
30. Buss C, Entringer E, Moog N, Gilmore JH, Styner M, Graham A, Fair D, Wadhwa PD. Maternal Cortisol Concentrations during Pregnancy and Newborn Brain Integrity. *Nordic Psychiatric Congress*, Copenhagen, Denmark, September 2015.

Conference Presentations, peer-reviewed (poster presentations)

1. Buss C, Wolf OT, Witt J, Hellhammer DH. Effects of Hydrocortisone Administration on Autobiographic Memory. *International Society for Psychoneuroendocrinology*. Pisa, Italy, March 2003.
2. Buss C, Schuelter U, Hesse J, Moser D, Phillips DI, Hellhammer DH, Meyer J. Simon's Fatigue. *International Society for Psychoneuroendocrinology*. New York City, NY, USA, September 2003.
3. Buss C, Wadiwalla M, Hellhammer DH, Meaney MJ, Pruessner JC, Lupien SJ. Effects of Size for Gestational Age and Early Maternal Care on BMI in Healthy University Students. *International Society for Psychoneuroendocrinology*. Glasgow, UK, July 2004.
4. Buss C, Wadiwalla M, Khalili Mahani N, Scherling C, Meaney MJ, Lupien SJ, Pruessner JC. Early Adversity as a Determinant of Successful Aging. *International Society for Psychoneuroendocrinology*. Leiden, Holland, August 2006.
5. Buss C, Lord C, Wadiwalla M, Hellhammer DH, Lupien SJ, Meaney MJ, Pruessner JC. Maternal Care Modulates the Relationship between Birth Weight and Hippocampal Volume. *The Lille Summerschool on Neuroplasticity over the Lifespan*. Lille, France, September 2006.
6. Buss C, Wadiwalla M, Hellhammer DH, Meaney MJ, Lupien SJ, Pruessner JC. The Impact of Fetal Growth on the Adrenocortical Stress Response is Gender Specific. *World Congress on the Developmental Origins of Health and Disease*. Utrecht, Holland, September 2006.

7. Buss C, Floro JN, Andersen J, Mavandadi S, Wadhwa PD. Impact of Maternal Psychosocial Stress on Birth Outcomes: A meta-analysis. *World Congress on the Developmental Origins of Health and Disease*. Perth, Australia, November 2007.
8. Buss C, Class QA, Tan ET, Gierczak M, Patillo C, Sandman CA. Fetal Heart Rate Responses over Pregnancy Predict Infant Mental and Motor Development during the First Year of Life. *World Congress on the Developmental Origins of Health and Disease*. Perth, Australia, November 2007.
9. Buss C, Davis EP, Glynn LM, Chicz-DeMet A, Hobel CJ, Sandman CA. Maternal Cortisol during Early and Mid Gestation Predicts Spatial Working Memory Performance in 5-8 year-old Children Born at Term. *International Society for Psychoneuroendocrinology*. Dresden, Germany, July 2008.
10. Buss C, Entringer S, Jonazary FR, Chicz-DeMet A, Sandman CA, Waffarn F, Wadhwa PD. Attenuation of the Cortisol Awakening Response (CAR) over the Course of Human Gestation is Associated with Gestational Age at Birth. *International Society for Psychoneuroendocrinology*. San Francisco, CA, USA, July 2009.
11. Buss C, Entringer S, Jonazary FR, Chicz-DeMet A, Sandman CA, Waffarn F, Wadhwa PD. Attenuation of the Cortisol Awakening Response (CAR) over the Course of Human Gestation is Associated with Gestational Age at Birth. *World Congress on the Developmental Origins of Health and Disease*. Santiago, Chile, November 2009.
12. Buss C, Davis EP, Class Q, Crippen C, Canino C, Gierczak M, Patillo C, Sandman CA. Fetal Heart Rate responses over Pregnancy Predict Infant Mental and Motor Development during the First Year of Life. *World Congress on Infant Mental Health in Leipzig*. Germany, June 2010.
13. Buss C, Davis EP, Pruessner JC, Muftuler T, Head K, Hasso A, Hobel CJ, Sandman CA. Increased Risk for Affective Disorders Programmed In Utero? High Prenatal Maternal Cortisol and Volumes of the Amygdala and Hippocampus in the Offspring at 6-9 Years. *World Congress on the Developmental Origins of Health and Disease*. Portland, OR, USA.

EDITORIAL CONSULTANT

American Journal of Obstetrics and Gynecology
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 British Journal of Psychiatry
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 European Child & Adolescent Psychiatry
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 International Journal of Psychopharmacology
 International Journal of Obesity

JAMA Psychiatry
Journal of Clinical Endocrinology and Metabolism
Journal of Child Psychology and Psychiatry
Journal of Psychosomatic Obstetrics & Gynecology
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