

Lebenslauf

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geboren am 13. März 1978

in Sögel

ledig

AKADEMISCHE POSITIONEN

- Seit Juli 2017** **Einstein Center for Neurosciences Berlin (ECN)**
Principal Investigator
- Seit Juli 2016** **University of California Irvine, USA**
Associate Professor im Fachbereich "Pediatrics" (in Nebentätigkeit)
- Seit Jan. 2013** **Charité Universitätsmedizin Berlin**
Professorin im Institut für Medizinische Psychologie
- Seit Dez. 2010** **University of California, Irvine, USA**
Assistant Professor,
Department of Pediatrics (seit Januar 2013 in Nebentätigkeit)

AUSBILDUNG

- Feb. 2007 – Nov. 2010** **University of California Irvine, USA**
Postdoktorandin im Fachbereich *Psychiatry and Human Behavior*
- Jan. 2003 – Dez. 2006** **Universität Trier**
Wissenschaftliche Mitarbeiterin im Institut für *Psychobiologie, Promotion*
- Okt. 2003 – Sept. 2005** **McGill University, Montreal. Kanada**
Wissenschaftliche Mitarbeiterin im Fachbereich *Psychiatry, Neurology and Neurosurgery (Austausch im Rahmen der Promotion)*
- Mai 2000 – Dez. 2002** **Universität Trier**
Wissenschaftliche Hilfskraft in dem von der Deutschen Forschungsgemeinschaft (DFG) geförderten Projekt „Chronischer Stress und Alter“
- Okt. 1997 – Dez. 2002** **Universität Trier**
Abgeschlossener Diplomstudiengang, Note: sehr gut

PLATZIERUNGEN IN BERUFUNGSVERFAHREN

- Aug. 2012** primo loco, Professur für Medizinische Psychologie mit Schwerpunkt Pränataler Stress und Neurodevelopment (W2), Charité Universitätsmedizin Berlin (angenommen)
- Jun. 2010** primo loco, Juniorprofessur für Entwicklungspsychologie (W1), Universität Konstanz (abgelehnt)

FORSCHUNGSSCHWERPUNKTE

Prä- und Postnatale Programmierung der Entwicklung über die Lebensspanne

- Prä- und postnatale Programmierung der Gehirnentwicklung
- Anwendung bildgebender Verfahren zur Erforschung von Stresseffekten auf das Gehirn und die kognitive Leistungsfähigkeit
- Transgenerationale Transmission der Effekte von frühkindlichem Stress/Trauma der Mutter auf ihr Kind
- Effekte von mütterlichem Stress auf die fötale Entwicklung, die Gestationslänge und das Geburtsgewicht
- Mütterlich-plazental-fötale Endokrinologie und die Stressbiologie während der Schwangerschaft
- Gen-Umwelt Interaktionen in der fötalen und kindlichen Entwicklung
- *Ecological Momentary Assessment*-Methoden und ihre Anwendung in der Schwangerschaft
- Frühe Determinanten des erfolgreichen Alterns
- Einflussfaktoren in der frühen Umwelt auf die Gesundheit über die Lebensspanne

UNIVERSITÄRE LEHRTÄTIGKEIT

Charité, Universitätsmedizin, Berlin, Germany

- Seit 2013** Modellstudiengang Medizin (Vorlesungen, Seminare und Betreuung von Hausarbeiten)
- M01 Memento –Methoden des Lernens
 - M01 Biopsychosoziales Modell
 - M06 Brain under stress - physiologische Stressreaktionen und kognitive Verarbeitung
 - M06 Entwicklung über die Lebensspanne
 - M20 Frühe Programmierung
 - M20 Das gestresste Gehirn
 - M31 Gen- Umwelt-Interaktionen: wie psychische Störungen entstehen und weitergegeben werden
 - M33 Kognitive Entwicklung
 - M33 Voraussetzungen und Konsequenzen pränataler Diagnostik
 - Grundlagen ärztlichen Denkens und Handelns
„Wunschkind und Designerbabys“

„Neue reproduktive Techniken – medizinischer Fortschritt und ethische Dilemmata“

Bachelorstudiengang Gesundheitswissenschaften (Vorlesungen und Seminare)

University of California, Irvine, USA

Seit 2011

Maternal-Fetal Medicine Fellowship lectures
Vorlesung: Neurobiologie der Schwangerschaft

Seit 2007

Directed Studies/ Special Studies (Bio Sci/ Soc Eco 198/199)
Empirisches Forschungsseminar: Psychobiologie der Schwangerschaft und fötal/ kindliche neurokognitive Entwicklung für Bachelor Studenten

2007

Development, Health and Disease
Vorlesung für Bachelor- und Master-Studenten, Sommersemester

Universität Trier

2006

Neuropattern: Entwicklung eines neuen Diagnosesystems für stressbezogene Erkrankungen
Seminar für Studenten im Hauptstudium

2005-2006

Ausgewählte Fragen der Psychobiologischen Forschung
Seminar für Studenten im Hauptstudium, Wintersemester und Sommersemester

McGill University, Montreal, Kanada

2005

Psychopathology
Seminar für Medizinstudenten, Sommersemester

PRÜFUNGSVERFAHREN

1. Seit 2013, Prüferin bei Disputationen zur Erlangung des *doctor medicinae* und bei Habilitationen, Charité Universitätsmedizin Berlin.
2. November 2014, Prüferin bei Disputation, University of Helsinki, Finnland.
3. January 2015, Prüferin bei Disputation, Graduate School of Health & Medical Science, University of Copenhagen, Dänemark.

SUPERVISION VON STUDENTEN UND WISSENSCHAFTLICHEN MITARBEITERN

Bachelorstudenten

1. *Lydia Ebeling*, Universität Potsdam, Psychologie (Bachelor of Science). Thema: Depressivität in der Schwangerschaft und das Bindungsverhalten einjähriger Kinder. Seit März 2016 (Zweitbetreuung).

Masterstudenten

1. *Alice Kaack*, Free University Berlin, Social, Cognitive and Affective Neurosciences (Master's Degree). Thema: The Role of Immune-Endocrine Interactions in Pre- and Postnatal Depression. June 2015 – May 2016. (Erstbetreuung).
2. *Romy Seidl*, Charité University Medicine Berlin. Medical and Nursing Sciences. Thema: Prevention of Burn-out among Midwives in Training. June 2015 – May 2016. (Zweitbetreuung)
3. *Georgina Sket*, Free University Berlin, Social, Cognitive and Affective Neurosciences (Master's Degree). Thema: Neonatal Structural Brain Connectivity and Neurocognitive Development during the First Year of Life. June 2015 – May 2016 (Erstbetreuung).
4. *Philipp Töpfer*, Charité University Medicine Berlin and University of Osnabrück (Diploma in Psychology). Thema: The Influence of Early Life Stress and Current Depression on Immune Function in Pregnancy. Jan – Aug 2014 (Erstbetreuung).
5. *Clarissa Nafe*, Charité University Medicine Berlin, Medical and Nursing Sciences. Thema: Physical Activity during Pregnancy. Oct 2013 – May 2014 (Erstbetreuung).

Dokotranden

1. Georgina Sket (cand. PhD), Charité University Medicine Berlin. Topic: Fetal Programming of the Microbiome and its Implications for Brain Development. Seit October 2017 (Erstbetreuung).
2. Elina Thomas (cand. PhD), Oregon Health and Science University. Topic: Infant Brain Development and Temperament Trajectories. Seit August 2017 (co-mentor, advisory committee).
3. Theresa Kleih (cand. Dr. rer.nat.), Charité University Medicine Berlin und Berlin Graduate School of Mind and Brain. Stipend by the Elsa Neumann Foundation. Topic: The Impact of Maternal Childhood Maltreatment on Perinatal Depression Trajectories. Since June 2016 (Erstbetreuung).
4. *Judith Overfeld* (cand. Dr. rer.nat.), Charité Universitätsmedizin Berlin. Thema: The Influence of Early Life Stress on Child Brain Development. Seit Januar 2013 (Zweitbetreuung).
5. *Philipp Töpfer* (cand. Dr. rer.medic.), Charité Universitätsmedizin Berlin. Thema: Intrauterine Programming of Maternal Behavior. Seit September 2014 (Erstbetreuung).
6. *Saskia Schiller* (cand. Dr. med.), Charité Universitätsmedizin Berlin. Pre- and Postnatal Programming of Infant Stress Reactivity. Seit Oktober 2014 (Erstbetreuung).
7. *Leonie Klaumünzer* (cand. Dr. med.), Charité Universitätsmedizin Berlin. Thema: The Influence of Omega 3 Fatty Acids on Fetal Brain Development. Seit Mai 2015 (Erstbetreuung).
8. *Jerod Rasmussen* (PhD), University of California Irvine, Thema: Fetal Programming of Infant Neural Circuits that Underlie Appetite Regulation. Juni 2013 – September 2016 (Zweitbetreuung).
9. *Nora Moog* (Dr. rer.nat.), Charité Universitätsmedizin Berlin und Berlin School of Mind and Brain. Elsa-Neumann-Stipendiatin (Graduiertenförderung des Landes Berlin). Thema: The Role of Maternal Thyroid Hormones in Programming Fetal Brain Development. Januar 2013 – Dezember 2017 (Erstbetreuung).

Postdoktoranden

1. Dr. Jerod Rasmussen, University of California Irvine, Thema: Characterizing Neural Circuits that Control Energy Homeostasis. Seit Oktober 2016 (Zweitbetreuung).
2. *Dr. Alice Graham*, Oregon Health and Science University, NRSAD Stipendiatin, Thema: Pre- and Postnatal Programming of Infant Neural Networks Implicated in Executive Functioning. Seit März 2014 (Zweitbetreuung).
3. *Dr. Satoru Ikenoue*, University of California Irvine, Thema: Fetal Predictors of Infant Adiposity. Seit Juni 2014 (Zweitbetreuung).
4. *Dr. Karen Lindsay*, University of California Irvine, Thema: Maternal metabolic changes over the course of gestation and programming of infant adiposity. Seit Januar 2015 (Zweitbetreuung).

5. 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 (Zweitbetreuung).

AKQUISITION VON FORSCHUNGSDRITTMITTELN

Laufende Forschungsprojekte

1. Principal Investigator (Co-PI status with Tom O'Connor, Pathik Wadhwa, Richard Miller and Hyagriv Simhan)
Pre- and Postnatal Exposure Periods for Child Health: Common Risks and Shared Mechanisms
 NIH – Environmental influences on child health outcomes (ECHO)
 \$ 18.353.773,00 total costs
 10/01/2016-09/30/2023
2. Principal Investigator
Transgenerational Transmission of Maternal Childhood Trauma and its Sequelae
 European Research Council Starting Grant
 € 1.200.000 direct costs
 10/2016-10/2021
3. 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
 06/2015 - 05/2020
4. Co-Investigator (PI of 2 subprojects, Christine Heim PI of center grant)
Kids2Health
 German Ministry of Science and Education
 € 4.714.452 total costs
 10/01/2017-09/30/2021
5. Co-Investigator (Pathik Wadhwa, Sonja Entringer MPIs)
Maternal Acculturation in Pregnancy and Infant Adiposity in Mexican Americans
 NIH/ National Institute on Minority Health and Health Disparities
 \$ 2.381.478 direct costs
 07/01/2016-06/30/2021
6. Co-Investigator (Pathik Wadhwa, Hyagriv Simhan MPIs)
Social Disadvantage and Fetal Programming of Newborn-Infant Telomere Biology NIH/National Institute of Aging
 \$ 2.463.696 direct costs
 07/01/2016-06/30/2021
7. Co-Investigator (Christine Heim, PI)
Biological Embedding of Maltreatment: Berlin Longitudinal Children Study
 German Ministry of Science and Education
 \$ 2.154.420 direct costs
 07/01/2013-09/01/2017 (including no-cost extension)

Abgeschlossene Forschungsprojekte

8. 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)
Supplement to R01 MH105538
\$ 94.220 direct costs
06/2016 - 05/2017
9. Principal Investigator (coordinator)
Biological Mechanisms of Transgenerational Transmission of Early Life Stress
ERA-NET NEURON European Commission
\$ 1.196.060 direct costs
05/2014-10/2017 (including no-cost extension)
10. 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)
11. 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)
12. 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)
13. 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
14. Principal Investigator
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 direct costs
10/2010-09/2012
15. 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
16. Doctoral Research Scholarship Award
Pre- and Postnatal Programming of the Hypothalamic-Pituitary-Adrenal Axis Related Outcomes.
Cusanuswerk
07/2003-06/2006
 17. 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 direct costs
07/2010-06/2016 (including a 1-year no-cost extension)
 18. 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 direct costs
02/2010-01/2016 (including a 1-year no-cost extension)
 19. 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)
 20. 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
 21. 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 direct costs
10/2010-09/2012
 22. 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 direct costs
10/2010-09/2012
 23. 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 direct costs
04/2010-09/2012

24. 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 direct costs
 07/06-07/2012

STIPENDIEN UND AUSZEICHNUNGEN

MITGLIEDSCHAFTEN

- Oktober 2017** Aufnahme als Mitglied der *Academy of Behavioral Medicine Research*
Februar 2016 Aufnahme in den Genshagener Kreis

FORSCHUNGSPREIS

- September 2015** Curt Richter Award der Gesellschaft für Psychoneuroendokrinologie

FORSCHUNGSSTIPENDIEN

- Jun. 2007 – Mai 2009** Postdoktoranden-Forschungsstipendium der DFG
Jul. 2006 – Sep. 2006 Promotionsstipendium der Universität Trier
Jul. 2003 – Jun. 2006 Promotionsstipendium des Deutschen Cusanuswerks

REISESTIPENDIEN

- Nov. 2009** *Developmental Origins of Health and Disease (DOHaD) Society* für die Teilnahme an der Konferenz in Santiago, Chile
Mär. 2009 *American Psychosomatic Society (APS)* für die Teilnahme an der Konferenz in Chicago, IL, USA
Feb. 2009 Stipendium für die Teilnahme an der *Winter Neuropeptide Conference* in Breckenridge, CO, USA
Aug. 2006 Stipendium für die Teilnahme an der *Lille Summerschool on Neurplasticity over the Lifespan* von der DFG
Sep. 2005 Stipendium für die Teilnahme an der Konferenz der *International Society for Psychoneuroendocrinology (ISPNE)* in Montreal, Canada von der DFG
Jul. 2004 *International Society for Psychoneuroendocrinology (ISPNE)* für die Teilnahme an der Konferenz in Glasgow, UK
Jul. 2004 German Volkswagen Foundation für die Teilnahme an der *Third Trier Summerschool on Early Programming of Health and Disease* in Trier, Deutschland
2003 – 2005 Reisestipendien zur Durchführung eines Forschungsprojekts vom

Douglas Hospital Research Center, McGill University, Canada und dem Cusanuswerk

POSTERPREIS

Jul. 2006

Lille Summerschool on Neuroplasticity over the Lifespan, Lille, France
Maternal care modulates the relationship between prenatal risk and hippocampal volume

VERÖFFENTLICHUNGEN

Zeitschriftenartikel (J) und Buchkapitel (B), peer-reviewed, H-Index: 37

- J1. Buss C, Wolf OT, Witt J, Hellhammer DH. Autobiographic Memory Impairment Following Acute Cortisol Administration. *Psychoneuroendocrinology*, 2004;29(8):1093-6. Impact-Factor: 4.94
- 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. 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: 2.72
- 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: 1.22
- BC1. Lupien S, Quétel-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, Meaney MJ, Lupien SJ, 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: 6.34
- 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 Neurotransmission*, 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: 5.01
- 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: 11.21

- 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; 30:419-26. Impact-Factor: 2.7
- 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: 2.73
- 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: 4.70
- 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: 1.79
- 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; 27:358-368. Impact-Factor: 2.35
- J14. Swanson JM, Entringer S, Buss C, Wadhwa PD. Developmental Origins of Health and Disease: Environmental Exposures. *Seminars in Reproductive Medicine*, 2009; 27:391-402. Impact-Factor: 2.35
- 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: 4.94
- 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: 4.94
- 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: 2.72
- 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: 0.77
- 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 (CAR) over the Course of Human Pregnancy. *Stress*, 2010; 13(3):258-68. Impact-Factor: 2.72
- 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: 2.24
- 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: 3.37

- J22. Buss C, Davis EP, Hobel, CJ, Sandman CA. Maternal Pregnancy-specific Anxiety is Associated with with child executive function at 6-9 years age. *Stress*, 2011; 14(6):665-676. Impact-Factor: 2.72
- J23. Davis EP, Buss C, 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: 4.70
- 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: 8-21. Impact-Factor: 4.37
- 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: 0.91
- 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: 3.47
- 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: 2.84
- 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: 4.70;
- 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: 2.44
- 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. *Developmental Origins of Health and Disease*, 2011; 2(4):212-217. Impact-Factor: 0.75
- 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: 3.26
- 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: 9.68
- J34. Buss C/Entringer S, Davis EP, Hobel CJ, Swanson JM, Wadhwa PW, Sandman CA. Impaired Executive Function Mediates the Association between Pre-pregnancy BMI and Child ADHD Symptoms. *PLoS One*, 2012; 7(6):E37758. Impact-Factor: 3.23
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34. Entringer S, Borders A, Buss C, Culhane J, Miller G, Grobman W, Simhan H, Adam E, Williamson D, Kim KY, Keenan-Devlin L, Wadhwa PD. Economic hardship during childhood is associated with immune hyperresponsiveness during pregnancy. *American Journal of Obstetrics & Gynecology* 216:1 (366), January 2017.
35. Miller ES, Grobman WA, Culhane J, Adam E, Buss C, Entringer S, Miller G, Simhan H, Wadhwa PD, Williamson D, Kim KY, Borders A. Does maternal inflammation mediate the relationship between antenatal depression and adverse pregnancy outcomes? *American Journal of Obstetrics & Gynecology* 216:1 (404), January 2017.
36. Borders A, Keenan-Devlin L, Adam E, Miller G, Culhane J, Wadhwa PD, Buss C, Entringer S, Kuchta K, Kim KY, Simhan H, Williamson D, Grobman W. Maternal childhood disadvantage, hair cortisol, and small-for-gestational-age birth. *American Journal of Obstetrics & Gynecology* 216:1 (219), January 2017.
37. Lindsay K, Hellmuth C, Uhl O, Buss C, Wadhwa PD, Koletzko B, Entringer S. Identification of metabolomic profiles that confer intergenerational transfer of obesity risk. *American Journal of Obstetrics & Gynecology* 216:1 (298-299), January 2017.
38. Lindsay K, Hellmuth C, Uhl O, Buss C, Wadhwa PD, Koletzko B, Entringer S. Prenatal interleukin-6 influences maternal amino acid profiles with implications for fetal programming of obesity. *American Journal of Obstetrics & Gynecology* 216:1 (299), January 2017.
39. Buss C, Borders A, Entringer S, Culhane J, Miller G, Grobman W, Adam E, Simhan H, Williamson D, Kim KY, Keenan-Devlin L, Wadhwa PD. Maternal childhood trauma is associated with a pro-inflammatory state during pregnancy. *American Journal of Obstetrics & Gynecology* 216:1 (291), January 2017.
40. Chen H, Budin F, Noel J, Prieto JC, Gilmore JH, Rasmussen JM, Wadhwa PD, Entringer S, Buss C, Styner M. White Matter Fiber-based Analysis of T1w/T2w Ratio Map. *SPIE Medical Imaging* 101330P-101330P-7, February 2017.
41. Kominiarek MA, Grobman W, Adam E, Buss C, Culhane J, Entringer S, Miller G, Simhan H, Wadhwa PD, Williamson D, Kim KY, Keenan-Devlin L, Borders A. Prenatal Stress and Gestational Weight Gain. *Reproductive Sciences* 24:125, March 2017.
42. Kaminsky Z, Jones I, Bakker A, Wadhwa PD, Entringer S, Osborne L, Binder EB, Frokjaer V, Buss C, Payne J. Discovery, Replication, and Application of an Epigenetic Biomarker Model to the Prediction of Postpartum Depression and Neuroimaging Endophenotypes. *Biological Psychiatry* 81:10, May 2017.
43. Thomas E, Graham A, Rudolph M, Rasmussen JM, Wadhwa PD, Entringer S, Gilmore JH, Styner M, Buss C, Fair DA. Implications of Newborn Amygdala Connectivity on Fear Vs. Negative Emotionality Development over the First Year of Life. *Biological Psychiatry* 81:10, May 2017.
44. Graham A, Rasmussen JR, Entringer S, Rudolph M, Styner M, Gilmore JH, Potkin S, Wadhwa PD, Fair A, Buss C. Sex specific effects of maternal cortisol concentrations during pregnancy on

- the functional connectivity of the newborn limbic system. *Psychoneuroendocrinology* 83:6, September 2017.
45. Toepfer P, O'Donnell KJ, Heim CM, Lin DTS, MacIsaac JL, Kobor MS, Meaney MJ, Provencal N, Binder EB, Entringer S, Wadhwa PD, Buss C. Dynamic DNA methylation changes in the oxytocin locus (OXT) during pregnancy are associated with maternal parenting behavior. *Psychoneuroendocrinology* 83:25, September 2017.
 46. Lazarides C, Epel ES, Lin J, Blackburn EH, Buss C, Simhan HN, Wadhwa PD, Entringer S. Prospective association between maternal pro-inflammatory state during pregnancy and newborn telomere length. *Psychoneuroendocrinology* 83:27, September 2017.
 47. Scholaske L, Buss C, Brose A, Wadhwa PD, Entringer S. Acculturation is associated with interleukin-6 concentrations among Hispanic pregnant women. *Psychoneuroendocrinology* 83:27, September 2017.
 48. Rasmussen JM, Entringer S, Styner M, Gilmore JH, Graham A, Fair DA, Potkin SG, Wadhwa PD, Buss C. Maternal cortisol during gestation and sex specific prenatal programming of stress brain circuitry examined using diffusion tensor imaging. *Psychoneuroendocrinology* 83:6-7, September 2017.
 49. Moog NK, Entringer S, Styner M, O'Donnell KJ, Gilmore JH, Meaney MJ, Binder EB, Heim CM, Wadhwa PD, Buss C. Interaction between maternal cortisol in pregnancy and infant FKBP5 genotype on newborn hippocampal volume and infant stress reactivity at 12 months. *Psychoneuroendocrinology* 83:26, September 2017.

EINGELADENE VORTRÄGE

1. *Prenatal Programming of Human Brain Development*. Grand Rounds Department of Psychiatry and Human Behavior, University of California, Irvine, USA, Dezember 2009.
2. *Impact of Prenatal Factors on Cognitive Development*. Rheinische Friedrich-Wilhelms-Universität Bonn, Februar 2011.
3. *Prenatal Programming of Susceptibility for Mental Disorders*. Invited lecture at For OC Kids Neurodevelopmental Center, Orange, CA, Juli 2011.
4. *Developmental Programming of Health and Disease*. Orange County Health Care Agency, Santa Ana, CA, Juli 2011.
5. *Fetal Programming of Newborn and Infant Brain Development and Obesity Risk*. Grand Rounds Department of Epidemiology, University of California, Irvine, USA, Juli 2011.
6. *Prenatal Programming of Neurocognitive Development*. Charité Universitätsmedizin Berlin, Februar 2012.
7. *Early Life Origins of Psychopathology Susceptibility*. McGill Centre for Studies in Aging, McGill University, Montreal, Kanada, März 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, Kreta, Griechenland, Mai 2012.
9. *Fetal Programming of Brain Development - Role of Intrauterine Stress and Stress Biology in Susceptibility for Psychopathology*. Labor für Experimentelle Feto-Maternale Medizin, Universitätsklinikum Hamburg-Eppendorf, Hamburg, August 2012.

10. *Fetal Programming of Brain Development - Role of Intrauterine Stress and Stress Biology in Susceptibility for Psychopathology*. Klinik für Psychiatrie und Psychotherapie, Charité Universitätsmedizin Berlin, Campus Mitte, Februar 2013.
11. *Prenatal Programming of Susceptibility for Psychiatric Disorders*. Metal Health Platform im Rahmen des Berlin Institute of Health (BIH), Berlin, Juni 2013.
12. *Fetal Programming of Brain Development - Role of Intrauterine Stress and Stress Biology in Susceptibility to Psychopathology*. Endocrine Society, San Francisco, CA, USA, Juni 2013.
13. *Fetal Programming of Brain Development - Role of Intrauterine Stress and Stress Biology in Susceptibility to Psychopathology*. University of Edinburgh, UK, Januar 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, Mai 2014.
15. *Programming of Fetal Brain Development*. Neurocure Lunch Seminar Series, Charité, University Medicine, Berlin, Deutschland, Juni 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, Finnland, 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, Finnland, 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, Dezember 2014.
21. *Stress und Trauma während der lebensgeschichtlich frühen Entwicklung – Konsequenzen für die nächste Generation?*, Urania, Berlin, Mai 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, Kanada, August 2015.
23. *Prenatal Programming of Brain Development*. 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, Januar 2016.
26. *Developmental Programming of Brain Development - Implications for Mental Health and Disease*. Ruhr Universität Bochum, Januar 2016.

27. *Early Life Stress and Brain Development – Implications for Cognitive Function and Mental Health*. Max Planck Institute for Psychiatry, München, Deutschland, März 2016.
28. *Developmental Programming of Risk for Psychiatric Disorders*. The 7th biannual FENS-EMCCS meeting, Kopenhagen, Dänemark, Juli 2016.
29. *Fetal Programming of Health and Disease – Underlying Biological Mechanisms and Targets for Intervention*. HCEO's Health Inequality Conference, Chicago, IL, USA, November 2016.
30. *Frühe Ursprünge psychischer Erkrankungen – wie vorgeburtliche Faktoren die seelische Gesundheit beeinflussen können*. Dienstagskolloquium der Universität Freiburg, Januar 2017.
31. *The Fetal Brain: Sensitive to a Mother's Own Childhood Environment?* First Annual UK Maternal Mental Health Alliance Conference, London, UK, September 2017.
32. *Fetal Programming of Brain Development – Role of Intrauterine Stress and Stress Biology for Psychopathology*. World Association of Stress-related and Anxiety Disorders, Würzburg, Germany, September 2017.

KONGRESSPRÄSENTATIONEN

Kongressbeiträge, peer-reviewed (mündliche Präsentationen)

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, Oktober 2005.
2. Buss C, Wadiwalla M, Hellhammer DH, Meaney MJ, Pruessner JC, Lupien SJ. Early Adversity Affects Glucocorticoid Memory Modulation. *DGPA*. Dresden, Deutschland, Juni 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, Mai 2007.
4. Buss C, Entringer S, Wadhwa PD. Development, Health and Disease: a Biobehavioral Perspective. *The American Psychiatric Association*. San Diego, CA, USA, Mai 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, Deutschland, 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, Januar 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, Februar 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, März 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, Juli 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, März 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, Oktober 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, März 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, Mai 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, Deutschland, 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, Dezember 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, Deutschland, Juli 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 Psychoneuroendo-crinology*, 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, März 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.
31. Buss C. Pränatale Programmierung der Gehirnentwicklung – Implikationen für Kognitive Leistungsfähigkeit und Mentale Gesundheit. *Deutscher Kongress für Psychosomatische Medizin und Psychotherapie*, Potsdam, März 2016.
32. Buss C, Moog NK, Entringer S, Rasmusen JR, Styner MA, Gilmore JH, Heim CM, Wadhwa PD. Brain structural alterations in newborns of mothers exposed to childhood trauma. *International Society for Psychoneuroendocrinology*, Miami, FL, USA, September 2016.
33. Buss C. Intrauterine Mechanismen der intergenerationalen Transmission mütterlichen Kindheitstraumas. *Jahrestagung der DGKJ, DGSPJ, DGKCH, des BeKD und der GPGE*, Hamburg, Germany, September 2016.
34. Buss C. Fetale Programmierung der Gehirnentwicklung und des Risikos für Psychiatrische Erkrankungen. *Jahrestagung der DGMP und DGMS*, Berlin, Germany, September 2016.
35. Buss C, Moog NK, Entringer S, Rasmusen JR, Styner MA, Gilmore JH, Heim CM, Wadhwa PD. Brain structural alterations in newborns of mothers exposed to childhood trauma. *7th World Congress on Women's Mental Health*, Dublin, Irland, März 2017.

36. Buss C, Moog NK, Entringer S, Rasmusen JR, Styner MA, Gilmore JH, Heim CM, Wadhwa PD. Brain structural alterations in newborns of mothers exposed to childhood trauma. *43rd Psychologie und Gehirn (PuG) Conference*, Trier, Germany, June 2017.

Kongressbeiträge, peer-reviewed (Posterpräsentationen)

1. Buss C, Wolf OT, Witt J, Hellhammer DH. Effects of Hydrocortisone Administration on Autobiographic Memory. *International Society for Psychoneuroendocrinology*. Pisa, Italy, März 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, 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, Juli 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, Deutschland, Juli 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, Juli 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*. Deutschland, Juni 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, September 2011.

GUTACHTERTÄTIGKEIT FÜR WISSENSCHAFTLICHE FACHZEITSCHRIFTEN

American Journal of Obstetrics and Gynecology
 Archives of Women's Mental Health
 Biological Psychiatry
 Biological Psychology
 British Journal of Psychiatry
 Cerebral Cortex
 Child Development
 Child Maltreatment
 Cytokines
 Developmental Psychobiology
 Development and Psychopathology
 European Child & Adolescent Psychiatry
 Frontiers
 Hormones and Behavior
 Human Brain Mapping
 IEEE Transactions on Medical Imaging
 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
 Molecular Psychiatry
 Neurobiology of Aging
 Neuroimage
 Pediatrics
 Proceedings of the National Academy of Sciences of the United States of America
 Psychological Medicine
 Psychological Science
 Psychoneuroendocrinology
 Psychopharmacology
 Stress

BEGUTACHTUNG VON FORSCHUNGSPROJEKTEN

Canadian Institute of Health Research (CIHR)
 Deutsche Forschungsgemeinschaft (DFG)
 Fondation Privée HUG
 National Institutes of Health (Child Psychopathology and Developmental Disabilities [CPDD] study section)
 National Medical Research Council Singapore
 The Netherlands Organization for Health Research and Development (ZonMw)

MITGLIEDSCHAFTEN

Academy of Behavioral Medicine Research

Deutsche Gesellschaft für Psychologie

Deutsche Gesellschaft für Medizinische Psychologie

Developmental Origins of Health and Disease (DOHaD)

Flux: The Society for Developmental Cognitive Neuroscience

International Society for Psychoneuroendocrinology (ISPNE)

Society for Biological Psychiatry (SBP)

Society for Neuroscience (SFN)