

# CURRICULUM VITAE

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Date: February 22, 2023

## **Claudia Buss, Ph.D.**

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## EDUCATION

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- 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

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- Since July 2022**    **University of California, Irvine, USA**  
Adjunct Professor,  
Department of Pediatrics
- Since August 2018**    **Berlin School of Mind and Brain**  
Faculty Member

- Since July 2017**      **Einstein Center for Neurosciences Berlin (ECN)**  
Principal Investigator
- July 2016-June 2022**      **University of California, Irvine, USA**  
Adjunct Associate Professor,  
Department of Pediatrics
- Since Jan. 2013**      **Charité Universitätsmedizin Berlin, Germany**  
Professor,  
Department of Medical Psychology (tenured since 2016, W3 since 2019)
- Dec. 2010 – June 2016**      **University of California, Irvine, USA**  
Assistant Professor in Residence (2010-2013),  
Adjunct Assistant Professor (2013-2016)  
Department of Pediatrics
- 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
- May 2000 – Dec. 2002**      **University of Trier, Germany**  
Student Research Assistant

## **RESEARCH INTERESTS**

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### **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 Health and Disease across the Lifespan
- 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
- Early Life Determinants of Successful Aging

## TEACHING

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### **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
- 2005** **McGill University, Montreal, Canada**
- Co-Instructor: Psychopathology for medical students, Summer semester

## EXAMINER

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. April 2021, Examiner in dissertation defense, Graduate School of Health & Medical Science, University of Copenhagen.
4. Since 2013, Examiner in defense of theses for MD degrees and habilitations, Charité University Medicine Berlin, Germany.

## SUPERVISION OF STUDENTS

### Bachelor Students

1. *Alexandra Brandstaetter*, Topic: Brain Phenotypes in Children with Obesity. October 2020- February 2021.
2. *Lydia Ebeling*, University of Potsdam, Psychology (Bachelor of Science). Topic: Prenatal Maternal Depression and Attachment Behavior in One Year Old Children. Since March 2016 – September 2016 (co-supervisor).

### Master Students

1. Judith Tremölen, Thema: Structural Neuroanatomical Differences between Obese Children with and without Adverse Childhood Experiences. August 2022-Februar 2023 (2nd supervisor).
2. Amy Halbing, Thema: Childhood Maltreatment and Cortisol Concentration during Pregnancy. Februar-September 2022 (1<sup>st</sup> supervisor)..
3. *Fiona O'Donovan*, Topic: Childhood Maltreatment and the Brain Structural Connectome. Since February 2021 (1<sup>st</sup> supervisor).
4. *Charlotte Kuczyk*, *University of Leipzig, Germany*, Topic: Maternal Childhood Trauma and Inflammation during Pregnancy. Since November 2020.
5. Isabel Fornell, Topic: Childhood Maltreatment, Amydala Reactivity and Psychopathology. Since November 2020 (1<sup>st</sup> supervisor).

6. *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. June 2015 – May 2016 (1<sup>st</sup> supervisor).
7. *Romy Seidl*, Charité University Medicine Berlin. Medical and Nursing Sciences. Topic: Prevention of Burn-out among Midwives in Training. June 2015 – May 2016.
8. *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. June 2015 – May 2016 (1<sup>st</sup> supervisor).
9. *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 (1<sup>st</sup> supervisor).
10. *Clarissa Nafe*, Charité University Medicine Berlin, Medical and Nursing Sciences. Topic: Physical Activity during Pregnancy. Oct 2013 – May 2014 (co-supervisor).

### Doctoral Students

1. Amy Halbing (cand. PhD), Einstein Center for Neuroscience, Charité - Universitätsmedizin Berlin. Topic: Placental Mechanisms Underlying the Association between Maternal Cortisol Concentration during Pregnancy and Offspring Neurodevelopment. Since October 2022 (1<sup>st</sup> supervisor).
2. Franziska Gronow (cand. Dr. rer. medic), Charité - Universitätsmedizin Berlin. Topic: Brain Developmental Trajectories Underlying Emerging Ability for Encoding Memories. Since July 2022 (1<sup>st</sup> supervisor).
3. Johannes Julius Mohn (cand. PhD), Max Planck School of Cognition, Charité - Universitätsmedizin Berlin. Thema: Statistical Learning as the Antecedent to Memory Encoding and Consolidation. Since July 2022 (2<sup>nd</sup> supervisor).
4. Fiona O'Donovan (cand. PhD), Einstein Center for Neuroscience, Charité - Universitätsmedizin Berlin. Thema: Maternal Cortisol Concentration during Pregnancy and Offspring White Matter Development. Since November 2021 (1<sup>st</sup> supervisor).
5. Nina Bertele (cand. Dr. rer.nat.), Charité University Medicine Berlin. Topic: Determinants of Risk and Resilience among Pregnant Women Exposed to Childhood Maltreatment. Since May 2021 (1<sup>st</sup> supervisor).
6. Georgina Sket (cand. PhD), Charité University Medicine Berlin. Topic: Fetal Programming of the Microbiome and its Implications for Brain Development. Since October 2017 (1<sup>st</sup> supervisor).
7. Elina Thomas (cand. PhD), Oregon Health and Science University. Topic: Infant Brain Development and Temperament Trajectories. Since August 2017 (co-mentor, advisory committee).
8. Theresa Kleih (cand. Dr. rer.nat.), Charité University Medicine Berlin. Stipend by the Elsa Neumann Foundation. Topic: The Impact of Maternal Childhood Maltreatment on Perinatal Depression Trajectories. Since June 2016 (1<sup>st</sup> supervisor).
9. *Leonie Klaumünzer* (cand. Dr. med.), Charité University Medicine Berlin. Topic: The influence of Omega 3 Fatty Acids on Fetal Brain Development. Since May 2015 (1<sup>st</sup> supervisor).
10. *Philipp Töpfer* (cand. Dr. rer.medic.), Charité University Medicine Berlin. Topic: Intrauterine Programming of Maternal Behavior. Since September 2014 (1<sup>st</sup> supervisor), defense planned for December 2019.
11. *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).

12. *Jerod Rasmussen* (PhD), University of California Irvine, USA. Topic: Fetal Programming of Infant Neural Circuits that Underlie Appetite Regulation. June 2013 – September 2016 (involvement: Doctoral Candidacy Committee, co-supervisor).
13. *Nora Moog* (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. January 2013 – December 2017 (1<sup>st</sup> supervisor).

### Postdoctoral Students

1. Dr. Saara Nolvi, Charité Universitätsmedizin Berlin, Topic: Prenatal Stress and Programming of Offspring Brain Plasticity (Humboldt Fellow). Since November 2018.
2. Dr. *Nora Moog*, Charité Universitätsmedizin Berlin, Topic: The Role of Maternal Thyroid Hormones in the Intergenerational Transmission of Maternal Childhood Trauma. Since September 2018.
3. Dr. Jerod Rasmussen, University of California Irvine, Topic: Characterizing Neural Circuits that Control Energy Homeostasis. Since October 2016 (co-supervisor). recipient of NIH K99/R00 career development grant.
4. Dr. *Karen Lindsay*, University of California Irvine, Department of Pediatrics. Topic: Metabolomic Changes over the Course of Pregnancy. Since January 2015 (co-supervisor). recipient of NIH K99/R00 career development grant.
5. Dr. *Lauren Gyllenhammer*, University of California Irvine, Department of Pediatrics. Topic: Metabolic Function in Children and Associations with Prenatal Exposures. Since October 2016 (co-supervisor). Recipient of NIH K99/R00 career development grant.
6. 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). recipient of NIH K99/R00 career development grant, since 2018 faculty position at OHSU.
7. 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).
8. 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 – May 2016 (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

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### Current Funding

1. Principal Investigator (Co-PI status with Sofia Kirke Forslund)  
*Fetal Programming* of Infant Microbiome Development and Consequences for Neurodevelopment  
 German Research Foundation FO 1279/7-1  
 € 551,725  
 02/01/2023-10/31/2026
2. Principal Investigator (Co-PI status with Sonja Entringer)  
*Understanding, Predicting and Treating Depression in Pregnancy to Improve Mothers and Offspring Mental Health* (Coordinator: Annamaria Cattaneo)  
 EU HORIZON 101057390  
 € 11,293,266 (total) €700,976 (Subproject)  
 11/01/2022-10/31/2026
3. Principal Investigator (Co-PI status with Angela Kaindl and Yee Lee Shing)  
*Ontogenesis of Memory Consolidation: From Remembering Regularities to Specifics*  
 Subproject in *CRC Mechanisms and Disturbances in Memory Consolidation – from Synapses to Systems* (Coordinator: Matthew Larkum)  
 German Research Foundation  
 SFB1315  
 € 14,941,218 (CRC) €713,699 (Subproject)  
 07/01/2022-06/30/2026
4. Principal Investigator (Co-PI status with Moritz Koester)  
 Brain, Gene, and Environment Interactions in the Ontogeny of Early Helping Behavior  
 German Research Foundation  
 KO 6028/3-1  
 €306,079  
 06/01/2021-05/31/2024
5. Principal Investigator (MPI 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)  
 UH3 OD-023349  
 \$ 9,113,026 direct costs  
 10/01/2018-09/30/2023
6. Principal Investigator  
*Transgenerational Transmission of Maternal Childhood Trauma and its Sequelae*  
 European Research Council Starting Grant  
 € 1,200,000 direct costs  
 11/2015-03/2023
7. Principal Investigator (MPI 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 - 05/2022

8. Principal Investigator of subaward (Rebecca Knickmeyer)  
*Genetic Influences on Infant Brain Development: Understanding the Developmental Origins of Mental Illness* (ORIGINs, PI: Rebecca Knickmeyer)  
 NIMH/ National Institute on Mental Health  
 \$ 3,675,523 direct costs, (subaward: \$140,127)  
 05/01/2021-04/30/2026
  
9. Co-Investigator (PI of 2 subprojects, Christine Heim coordinator)  
*Kids2Health*  
 German Ministry of Science and Education  
 GILKUIJ-50  
 € 4,714,452 (total costs)  
 12/01/2017-11/30/2022

### **Previously held/ completed funding**

#### Principal Investigator

10. Principal Investigator (Co-PI status with Angela Kaindl and Yee Lee Shing)  
*Ontogenesis of Memory Consolidation*  
 Subproject in *CRC Mechanisms and Disturbances in Memory Consolidation – from Synapses to Systems* (Coordinator: Matthew Larkum)  
 German Research Foundation  
 SFB1315  
 € 10,730,100 (CRC) €422.200 (Subproject)  
 07/01/2018-06/30/2022
  
11. Principal Investigator (MPI 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)  
 UG3 OD-023349  
 \$ 3,019,058 direct costs  
 10/01/2016-09/30/2018
  
12. Principal Investigator (MPI 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
  
13. Principal Investigator (and 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)
14. 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)
15. 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)
16. 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)
17. 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
18. 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
19. 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
20. Doctoral Research Scholarship Award  
*Pre- and Postnatal Programming of the Hypothalamic-Pituitary-Adrenal Axis Related Outcomes.*  
Cusanuswerk  
07/2003-06/2006

Co-Investigator

21. 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
  
22. 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
  
23. Co-Investigator (Damien Fair, Alice Graham MPIs)  
Investigation of opioid exposure and neurodevelopment (iOPEN)  
NIH/National Institute of Drug Abuse  
R34DA050291  
\$ 1,059,706 total costs  
09/14/2019-03/31/2021
  
24. 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)
  
25. 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)
  
26. 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)
  
27. 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)
  
28. 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

29. 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
30. 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
31. 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
32. 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

## SCHOLARSHIPS AND AWARDS

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### MEMBERSHIPS

**October 2017** Election as a Fellow to the Academy of Behavioral Medicine Research

### RESEARCH AWARDS

**September 2015** Curt Richter Award from the International Society for Psychoneuroendocrinology "*in recognition of distinguished early to mid career scientific contributions at the interface of health-related biological and psychological processes.*"

**RESEARCH SCHOLARSHIPS**

- Jun. 2007 – May 2009** 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

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### Journal articles and book chapters, peer-reviewed

H-Index: 62, Citations: 14.037 (based on Google Scholar)

- 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, 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, 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
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- J157. Alex AM , Buss C, Davis EP, de los Campos G, Donald KA, Fair DA, Gaab N, Gao W, Gilmore JH, Girault JB, Grewen K, Groenewold. Hankin BL, Ipser J, Kapoor S, Kim P, Lin W, Luo S, Norton ES, O'Connor TG, Piven J, Qiu A, Rasmussen JM, Skeide MA, Stein DJ, Styner MA, Thompson PM, Wakschlag L, Knickmeyer R for the ENIGMA ORIGINS group. Genetic Influences on the Developing Young Brain and Risk for Neuropsychiatric Disorders. *Biological Psychiatry* (in press). Impact-Factor: 12.81
- J158. Schommartz I, Lembcke PF, Pupillo F, Schuetz H, Wald de Chamorro N, Bauer M, Kaindl AM, Buss C\*, and Shing YL\* (\*shared last author). Distinct Multivariate Structural Brain Profiles Are Related to Variations in Short- and Long-Delay Memory Consolidation Across Children and Young Adults. *Developmental Cognitive Neuroscience*, 2023; 59:101192. Impact-Factor: 5.811.
- J159. Moog NK, Cummings PD, Jackson KL, Aschner JL, Barrett ES, Bastain TM, Blackwell CK, Enlow MB, Breton CV, Bush NR, Deoni SCL, Duarte CS, Ferrara A, Grant TL, Hipwell AE, Jones K, Leve LD, Lovinsky-Desir S, Miller RK, Monk C, Oken E, Posner J, Schmidt RJ, Wright RJ, Entringer S, Simhan HN, Wadhwa PD, O'Connor TG, Musci RJ, Buss C. Intergenerational transmission of the effects of maternal exposure to childhood maltreatment in the USA: a retrospective cohort study. *Lancet Public Health* (in press). Impact-Factor: 72.427.
- J160. Rasmussen JM, Tuulari JJ, Nolvi S, Lavonius M, Merisaari H, Karlsson L, Entringer S, Wadhwa PD, Karlsson H, Buss C. Maternal Pre-pregnancy Body Mass Index is Associated with Newborn Offspring Hypothalamic Mean Diffusivity: A Prospective Dual-Cohort Study. *BMC Medicine* (in press). Impact-Factor: 8.775.

**Manuscripts, under review**

1. Marr M, Graham AM, Feczko E, Tomas E, Sturgeon D, Schifsky E, Rasmussen J, Gilmore JH, Styner M, Entringer S, Wadhwa PD, Buss C, Fair DA. Trajectories of Maternal Stress during Pregnancy Predict Offspring Neurodevelopment (under review at *The American Journal of Psychiatry*).
2. Keenan-Devlin LS, Borders AEB, Freedman A, Miller GE, Grobman W, Entringer S, Simhan H, Wadhwa PD, Buss C. Maternal Exposure to Childhood Maltreatment and Adverse Birth Outcomes: Elucidating the Role of Health- Related Sequelae of Early Life Adversity (under review at *The American Journal of Obstetrics and Gynecology*).

## 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. *Early Origins of Psychiatric Disorders – How Stress Can Affect Brain Development*. SPZ-Symposium, Winterthur, Switzerland, November 2015.
25. *Prenatal Programming of Brain Development – Implications for Cognitive Function and Mental Health*. Universität Konstanz, January 2016.
26. *Developmental Programming of Brain Development - Implications for Mental Health and Disease*. Ruhr Universität Bochum, January 2016.
27. *Early Life Stress and Brain Development – Implications for Cognitive Function and Mental Health*. Max Planck Institute for Psychiatry, Munich, Germany, March 2016.
28. *Developmental Programming of Risk for Psychiatric Disorders*. The 7th biannual FENS-EMCCS meeting, Copenhagen, Denmark, July 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. *Early Origins of Psychiatric Disorders – How the Prenatal Environment Can Affect Mental Health*. Tuesday-Colloquium of the University of Freiburg, Germany, January 2017.
31. *Fetal Programming of Brain Development and Risk for Psychiatric Disorders – The Role of Maternal Stress and Stress Biology*. University of Erlangen, Germany, July 2017.
32. *The Fetal Brain: Sensitive to a Mother's Own Childhood Environment?* First Annual UK Maternal Mental Health Alliance Conference, London, UK, September 2017.
33. *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.
34. *Can Maternal Stress and Trauma Influence Fetal and Infant Development?* Arbeitskreis Schwangerschaft und Psyche in Märkisch-Oderland, October 2017, Klinik Rüdersdorf, Strausberg, Germany. Continuing education symposium for physicians, nurses, midwives, social workers.
35. *Fetal Programming of Brain Development and Risk for Psychiatric Disorders – The Role of Maternal Stress and Stress Biology*. Neurokolloquium, University of Tübingen, Germany, November 2017.
36. *Can Maternal Stress Affect Fetal Development and Increase Risk for Psychological and Somatic Disorders?* Berliner Versorgungsnetzwerk Psychosomatische Gynäkologie und Geburtshilfe, Berlin, Germany, January 2018. Continuing education symposium for physicians, nurses, midwives, social workers.
37. *Early Life Origins of Mental Health – Studying Pre- and Postnatal Environmental Influences on the Human Developing Brain and its Ethical Challenges*. Seventh Winter School Ethics and Neuroscience. Berlin, Germany, February 2018.
38. *Prenatal Stress and Programming of Health and Disease*. DEGUM Conference, Berlin, Germany, April 2018. Continuing education symposium for gynecologists.
39. *Maternal Preconceptional and Prenatal Stress and Offspring Neurodevelopment*. Jacobscenter for Productive Youth Development. Zürich, Switzerland, May 2018.
40. *Fetal Programming of Brain Development and Susceptibility for Psychiatric Disorders*. Annual Meeting of the Academy of Behavioral Medicine Research, Hilton Head Island, SC, June 2018.
41. *Maternal Stress during Pregnancy and Offspring Health*. Profamilia, Berlin, Germany, July 2018. Continuing education symposium for nurses, midwives, social workers.
42. *Maternal Stress and Consequences for Fetal and Infant Development*. Weltfrühgeborenentag, Wilhelmstift, Hamburg, Germany, November, 2018.
43. *Impact of Maternal Stress and Trauma on Fetal and Infant Development?* Ärztekammer Nordrhein Westfalen, Düsseldorf, Germany, November 2018. Continuing education symposium for physicians, nurses, midwives, social workers.

44. *Impact of Maternal Stress on Fetal and Infant Development?* Neonatology Wilhelmstift Hamburg, Germany, February 2019. Continuing education symposium for physicians, nurses, midwives, social workers and public audience.
45. *Fetal Programming of Brain Development and Risk for Psychiatric Disease.* ECNP Workshop on Neuropsychopharmacology for Early Career Scientists in Europe. Nice, France, March 2019.
46. *Fetal Programming of Brain Development and Risk for Psychiatric Disease.* University of Constance, Department of Clinical Neuropsychology, Constance, Germany. April 2019.
47. Stress during pregnancy – long term impact on child health? Berlin Brains, Urania Berlin, Germany, May 2019. Educational lecture for a public audience.
48. *Fetal Programming of Susceptibility for Psychiatric Disorders – Role of Maternal-Placental-Fetal Stress Biology.* Oregon Health and Science University. Portland, OR, USA, July 2019.
49. *Pathways Underlying the Intergenerational Transmission of Maternal Childhood Maltreatment.* Meeting on Cross-Species Comparisons in the Study of Human Development at Schloss Marbach, Jacobscenter for Productive Youth Development, Zürich, Switzerland, August, 2019.
50. *Fetal Programming of Brain Development – Role of Maternal-Placental-Fetal Stress Biology.* FLUX Society Meeting. New York, NY, USA, August 2019.
51. *The Role of Maternal Stress in Programming Susceptibility for Psychiatric Disorders.* Cerebral Imaging Center Douglas Mental Health University Institute, McGill University, Montreal, QC, Canada, September 2019.
52. *Consequences of Maternal Stress during Pregnancy and Offspring Disease Vulnerability.* Gynäkologenstammtisch, Charlottenburg, Berlin, Germany September 2019. Continuing education symposium for gynecologists.
53. *Intrauterine Mechanisms Underlying the Intergenerational Transmission of Maternal Childhood Maltreatment.* German Society for Psychotraumatology, Berlin, Germany, February 2020.
54. *Fetal Programming of Brain Development and Risk for Psychiatric Disorders.* Invited keynote speaker at the annual conference of the Organization for Human Brain Mapping (OHBM), online conference, June 2020.
55. *Stress and Prenatal Programming of Brain Development.* Toxic Stress in Families, online, September 2020.
56. *Maternal Childhood Trauma and Fetal Brain Development – Role of Maternal-Placental-Fetal Stress Biology for Intergenerational Transmission of Preconceptional Stress.* Finn Brain Seminar, University of Turku, Finland (online), December 2020.
57. *Fetal Programming of Brain Development and Risk for Psychiatric Disorders.* International Symposium on the Fetal Brain (ISFB), Washington D.C. (online), September 2021.
58. *Fetale Programmierung der Gehirnentwicklung,* Universität Innsbruck, Austria (online), Oktober 2021.

59. *Stress und pränatale Programmierung der Gehirnentwicklung und das damit zusammenhängende Risiko für psychiatrische Störungen*. Interdisziplinäre Traumafachtagung, Elmshorn, Germany, November 2021.
60. *Mütterlicher Stress und fetale Gehirnentwicklung*. Tagung der Internationalen Gesellschaft für prä- und perinatale Psychologie und Medizin (online), November 2021.
61. *Early Life Stress and Brain Development – Implications for Cognitive Function and Mental Health*. Conference on Prenatal and Early Life Factors Impacting Behaviour and Mental Health, McGill University (online), January 2022.
62. *Prenatal Stress and Brain Development – Implications for Cognitive Function and Mental Health*. Trinity College, Dublin, February 2022.
63. *Developmental Programming of Brain Development and Risk for Psychiatric Disorders – Overview of Neuroimaging Studies*, Center for Stroke Research Charité, February 2022.
64. *Einfluss von mütterlichem Stress während der Schwangerschaft auf die fetale Gehirnentwicklung*. Deutsches Herzzentrum Berlin, Germany, March 2022.
65. *Early Life Stress and Brain Development – Implications for Cognitive Function and Mental Health*. Retreat des DFG Graduiertenkollegs 2350, Klinik für Psychosomatik und Psychotherapeutische Medizin, Zentralinstitut für Seelische Gesundheit, Deidesheim, Pfalz, Germany, June 2022.
66. *Prenatal Stress and Brain Development – Implications for Cognitive Function and Mental Health*. Center for Lifespan Psychology Colloquium, MPI for Human Development, Berlin, Germany, September 2022
67. *Prenatal Stress and Brain Plasticity – Implications for Cognitive Function and Mental Health*. Ringberg Conference on Neuroplasticity (organised by the Max Planck Society), September, 2022.
68. *Early Life Stress and Brain Development – Implications for Cognitive Function and Mental Health*. UKE, Hamburg, Germany, November 2022
69. *Prenatal Programming of Brain Development – the Role of Maternal Stress and Stress Biology*. Grand Rounds, Child Study Center, Yale University, February 2023.

## 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.
  31. Buss C. Pränatale Programmierung der Gehirnentwicklung – Implikationen für Kognitive Leistungsfähigkeit und Mentale Gesundheit. *Deutscher Kongress für Psychosomatische Medizin und Psychotherapie*, Potsdam, Germany, March 2016.
  32. Buss C, Moog NK, Entringer S, Rasmussen 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. *Annual meeting of the 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. *Annual meeting of the DGMP und DGMS*, Berlin, Germany, September 2016.
  35. Buss C, Moog NK, Entringer S, Rasmussen 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, Ireland, March 2017.
  36. Buss C, Moog NK, Entringer S, Rasmussen 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.
  37. Graham AM, Rasmussen JR, Entringer S, Rudolph M, Styner M, Gilmore JH, Wadhwa PD, Fair DA, Buss C. Sex specific effects of maternal cortisol concentrations during pregnancy on the functional connectivity of the newborn limbic system. *73rd Meeting of the Society of Biological Psychiatry (SoBP)*, New York, NY, USA, May 2018.
  38. Buss C, Moog NK, Entringer S, Rasmussen JR, Graham AM, Styner MA, Gilmore JH, Fair DA, Heim CM, Wadhwa PD. Intrauterine mechanisms underlying the intergenerational transmission of maternal childhood maltreatment. *16th Congress of the World Association of Infant Mental Health (WAIMH)*, Rome, Italy, May 2018.
  39. Buss C, Graham A, Rasmussen J, Entringer S, Gilmore JH, Styner M, Wadhwa PD, Fair DA, Buss C. Maternal Inflammation during Pregnancy and Fetal Brain Development. *German Neuroscience Society Meeting*, Goettingen, Germany, March, 2019.
  40. Rasmussen JM, Gykenhammer L, Fair DA, Graham AM, O'Connor TG, Entringer S, Wadhwa PD, Buss C. Pars Triangularis Volume Mediates the Association Between Maternal Interleukin-6 Concentration During Pregnancy and Offspring Fluid Intelligence. *Psychoneuroimmunology Research Society*, Berlin, June 2019.

41. Buss C, Entringer S, Wadhwa PD. Prenatal Psychosocial Stress and Child Outcome. *8<sup>th</sup> Congress of the European Academy of Pediatric Societies*, online, October 2020.
42. Buss C, Graham A, Rasmussen J, Entringer S, Gilmore JH, Styner M, Fair DA, Wadhwa PD. *Einfluss mütterlicher Immunmarker auf die neurokognitive Entwicklung der Kinder*. German Society for Obstetrics and Gynecology (DGGG), Munich, Germany, October 2022.
43. Buss C, Graham A, Rasmussen J, Moog N, Entringer S, Gilmore JH, Styner M, Fair DA, Wadhwa PD. *Maternal Stress to the Fetus: Biological Mediators Altering Developmental Brain Trajectories*. German Association for Psychiatry, Psychotherapy and Psychosomatics (DGPPN), November 2022.
44. Buss C, Moog N, Graham A, Rasmussen J, Entringer S, Gilmore JH, Styner M, Fair DA, Wadhwa PD. *Prenatal Biological Mechanisms Underlying the Intergenerational Transmission of Maternal Stress*. Society for Maternal Fetal Medicine, Perinatal Mental Health Forum, February 2023.

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