Frances Anne **Champagne**

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Publications

Journal Articles

1. Beebe, B., Abdurokhmonova, G., Lee, S. H., Dougalis, G., Champagne, F., Rauh, V., Algermissen, M., Herbstman, J., & Margolis, A. E. (2024). Mother-infant self- and interactive contingency at four months and infant cognition at one year: A view from microanalysis. *Infant Behavior and Development*, *74*, 101920. https://doi.org/10.1016/j.infbeh.2023.101920
2. Curley, J. P., & Champagne, F. A. (2023). Shaping the development of complex social behavior. *Annals of the New York Academy of Sciences*, *1530*(1), 46–63. https://doi.org/10.1111/nyas.15076
3. Lapp, H. E., Salazar, M. G., & Champagne, F. A. (2023). Automated maternal behavior during early life in rodents (AMBER) pipeline. *Scientific Reports*, *13*(1). https://doi.org/10.1038/s41598-023-45495-4
4. Margolis, A. E., Lee, S. H., Liu, R., Goolsby, L., Champagne, F., Herbstman, J., & Beebe, B. (2023). Associations between prenatal exposure to second hand smoke and infant self-regulation in a new york city longitudinal prospective birth cohort. *Environmental Research*, *227*, 115652. https://doi.org/10.1016/j.envres.2023.115652
5. Wijenayake, S., Martz, J., Lapp, H. E., Storm, J. A., Champagne, F. A., & Kentner, A. C. (2023). The contributions of parental lactation on offspring development: It's not udder nonsense! *Hormones and Behavior*, *153*, 105375. https://doi.org/10.1016/j.yhbeh.2023.105375
6. Mashoodh, R., Habrylo, I. B., Gudsnuk, K., & Champagne, F. A. (2023). Sex-specific effects of chronic paternal stress on offspring development are partially mediated via mothers. *Hormones and Behavior*, *152*, 105357. https://doi.org/10.1016/j.yhbeh.2023.105357
7. Firestein, M. R., Romeo, R. D., Winstead, H., Goldman, D. A., Grobman, W. A., Haas, D. M., Parry, S., Reddy, U. M., Silver, R. M., Wapner, R. J., & Champagne, F. A. (2022). Hypertensive disorders during pregnancy and polycystic ovary syndrome are associated with child communication and social skills in a sex-specific and androgen-dependent manner. *Frontiers in Endocrinology*, *13*. https://doi.org/10.3389/fendo.2022.1000732
8. Lapp, H. E., Margolis, A. E., & Champagne, F. A. (2022). Impact of a bisphenol a, f, and s mixture and maternal care on the brain transcriptome of rat dams and pups. *NeuroToxicology*, *93*, 22–36. https://doi.org/10.1016/j.neuro.2022.08.014
9. Lee, W., Milewski, T. M., Dwortz, M. F., Young, R. L., Gaudet, A. D., Fonken, L. K., Champagne, F. A., & Curley, J. P. (2022). Distinct immune and transcriptomic profiles in dominant versus subordinate males in mouse social hierarchies. *Brain, Behavior, and Immunity*, *103*, 130–144. https://doi.org/10.1016/j.bbi.2022.04.015
10. Lee, W., Dwortz, M. F., Milewski, T. M., Champagne, F. A., & Curley, J. P. (2022). Social status mediated variation in hypothalamic transcriptional profiles of male mice. *Hormones and Behavior*, *142*, 105176. https://doi.org/10.1016/j.yhbeh.2022.105176
11. Margolis, A. E., Liu, R., Conceição, V. A., Ramphal, B., Pagliaccio, D., DeSerisy, M. L., Koe, E., Selmanovic, E., Raudales, A., Emanet, N., Quinn, A. E., Beebe, B., Pearson, B. L., Herbstman, J. B., Rauh, V. A., Fifer, W. P., Fox, N. A., & Champagne, F. A. (2022). Convergent neural correlates of prenatal exposure to air pollution and behavioral phenotypes of risk for internalizing and externalizing problems: Potential biological and cognitive pathways. *Neuroscience & Biobehavioral Reviews*, *137*, 104645. https://doi.org/10.1016/j.neubiorev.2022.104645
12. Fuentes, I., Morishita, Y., Gonzalez-Salinas, S., Champagne, F. A., Uchida, S., & Shumyatsky, G. P. (2022). Experience-regulated neuronal signaling in maternal behavior. *Frontiers in Molecular Neuroscience*, *15*. https://doi.org/10.3389/fnmol.2022.844295
13. Firestein, M. R., Romeo, R. D., Winstead, H., Goldman, D. A., Grobman, W. A., Haas, D., Mercer, B., Parker, C., Parry, S., Reddy, U., Silver, R., Simhan, H., Wapner, R. J., & Champagne, F. A. (2022). Elevated prenatal maternal sex hormones, but not placental aromatase, are associated with child neurodevelopment. *Hormones and Behavior*, *140*, 105125. https://doi.org/10.1016/j.yhbeh.2022.105125
14. Milewski, T. M., Lee, W., Champagne, F. A., & Curley, J. P. (2022). Behavioural and physiological plasticity in social hierarchies. *Philosophical Transactions of the Royal Society B: Biological Sciences*, *377*(1845). https://doi.org/10.1098/rstb.2020.0443
15. Trumpff, C., Sturm, G., Picard, M., Foss, S., Lee, S., Feng, T., Cardenas, A., McCormack, C., Champagne, F. A., & Monk, C. (2021). Added sugar intake during pregnancy: Fetal behavior, birth outcomes, and placental DNA methylation. *Developmental Psychobiology*, *63*(5), 878–889. https://doi.org/10.1002/dev.22088
16. McCormack, C., Lauriola, V., Feng, T., Lee, S., Spann, M., Mitchell, A., Champagne, F., & Monk, C. (2021). Maternal childhood adversity and inflammation during pregnancy: Interactions with diet quality and depressive symptoms. *Brain, Behavior, and Immunity*, *91*, 172–180. https://doi.org/10.1016/j.bbi.2020.09.023

Preprints

1. Lauby, S. C., Lapp, H. E., Salazar, M., Semyrenko, S., Chauhan, D., Margolis, A. E., & Champagne, F. A. (2023). *Postnatal maternal care moderates the effects of prenatal bisphenol exposure on offspring neurodevelopmental, behavioral, and transcriptomic outcomes*. https://doi.org/10.1101/2023.09.19.558481
2. Lapp, H. E., Salazar, M. G., & Champagne, F. A. (2023). *Automated maternal behavior during early life in rodents (AMBER) pipeline*. https://doi.org/10.1101/2023.09.15.557946
3. Mashoodh, R., Habrylo, I. B., Gudsnuk, K., & Champagne, F. A. (2022). *Sex-specific effects of chronic paternal stress on offspring development are partially mediated via mothers*. https://doi.org/10.1101/2022.03.25.485798
4. Lee, W., Milewski, T. M., Dwortz, M. F., Young, R. L., Gaudet, A. D., Fonken, L. K., Champagne, F. A., & Curley, J. P. (2021). *Distinct inflammatory and transcriptomic profiles in dominant versus subordinate males in mouse social hierarchies*. https://doi.org/10.1101/2021.09.04.458987

Books

Book Chapters

1. Lapp, H. E., & Champagne, F. A. (2022). Rodent models for studying the impact of variation in early life mother–infant interactions on mood and anxiety. In *Psychiatric vulnerability, mood, and anxiety disorders* (pp. 309–328). Springer US. https://doi.org/10.1007/978-1-0716-2748-8_15

Professional Presentations

Dynamic Epigenetic Pathways in the Developing Brain
Synapse Neuroscience Society, University of Texas at Austin *2023*

Dynamics of parental effects on offspring development
Texas A&M University, Department of Psychological and Brain Sciences, Seminar Series, Cognition and Cognitive Neuroscience Area *2023*

Epigenetics and Stress: Implications for Health Disparities
Department of Women's Health. Dell Medical School, UT Austin *2023*

Exploring the Relationship Between Biological and Psychological Stress
UT Austin Whole Communities–Whole Health Research Showcase *2023*

Interplay between prenatal endocrine disruptors and postnatal social experiences in shaping development
University of Texas at Dallas (UTD) Neuroscience Seminar Series *2023*

Prenatal Stress Influences on the Epigenome and Associations with Biobehavioral Outcomes
PsychoNeuroImmunology Research Society *2023*

Relationship Between Stress and the Epigenome
25th Symposium of the Center for Neuroendocrine Studies, University of Massachusetts, Amherst *2023*

Differential DNA Methylation and Epigenetic Age in Postmortem Brain Tissue Associated with Depression and Post-Traumatic Stress Disorder
Society for Biological Psychiatry Meeting *2022*

Differential DNA Methylation and Epigenetic Age in Postmortem Brain Tissue Associated with PTSD and Depression
UT Austin Department of Psychology Behavioral Neuroscience Seminar *2022*

Prenatal Environments and the Developing Brain: Epigenetic Pathways
Annual Center for Molecular Carcinogenesis and Toxicology Symposium *2022*

Prenatal Epigenetics and the Emergence of Developmental Trajectories
International Congress for Infant Studies *2022*

Prenatal Stress Influences on the Epigenome and Associations with Biobehavioral Outcomes

2022 Annual Meeting of the American Society for Neurochemistry *2022*

Relationship Between Stress & the Epigenome

UT Austin Dell Med School Psychiatry Grand Rounds *2022*

Relationship Between Stress and the Epigenome: Implications for Health

UCLA Laboratory of Neuroendocrinology (LNE) of the Brain Research Institute (BRI) Seminar Series *2022*

Building a Healthy Human Brain

University of Virginia, Department of Psychology (Virtual) *2021*

Prematurity Awareness Panel

NYU (Virtual) *2021*

Prenatal modulation of molecular and neurobehavioral outcomes

University of Iowa INSPIRE T32 Fellows Seminar (Virtual) *2021*

Prenatal modulation of molecular and neurobehavioral outcomes

Texas Student Psychological Association, University of Texas at Austin (Virtual) *2021*

Prenatal modulation of molecular and neurobehavioral outcomes

UC Davis Animal Behavior Seminar (Virtual) *2021*

Conference Abstracts

Honors

Funding

Whole Communities Whole Health

Funding: $10,000,000

University of Texas Vice President for Research,
2018 - 2028

Prediction of Alcohol Use Disorder and PTSD After Trauma in Adolescents

Funding: $947,876

National Institute on Alcohol Abuse and Alcoholism,
2022 - 2027

Environmental bisphenol exposure, infant brain and behavior: Human and animal models

Funding: $475,502

National Institute of Environmental Health Sciences,
2021 - 2024

Understanding PTSD through Postmortem Targeted Brain Multi-omics

Funding: $2,895,404

NIMH,
2018 - 2023

Socioeconomic disparities in cognitive & neural development in the first 3 years

Funding: $387,267

Eunice Kennedy Shriver National Institute of Child Health and Human Development,
2018 - 2023

Child maltreatment and risk for mild cognitive impairment and Alzheimer's disease

Funding: $7,636,259

National Institute on Aging,
2018 - 2023

Prenatal endocrine-disrupting chemicals and social/cognitive risk in mothers and infants: Potential biologic pathways

Funding: $1,866,538

National Institute of Environmental Health Sciences,
2017 - 2022

Service

Graduate School Awards Review Committee — *UT Austin, US*
Member — *2024 - present*

Society for Behavioral Neuroendocrinology — *IL, US*
Past-President — *2023 - present*

CNS-COLA-DMS Neuroscience Task Force — *UT Austin, US*
Co-Chair — *2023 - present*

Dept. of Psychology Associate Chair for Academic Affairs — *University of Texas at Austin, US*
2023 - present

Eunice Kennedy Shriver National Institute of Child Health and Human Development — *Bethesda, US*
Commitee Member — *2018 - present*

Simons Foundation SFARI Sex Differences in ASD Collaboration (SSDC) — *New York, US*
Consultant — *2024 - 2024*

UT Graduate School Dean Search Committee — *Ut Austin, US*
Member — *2023 - 2023*

27th Annual Meeting of the Society for Behavioral Neuroendocrinology — *Tours, FR*
Coordinator — *2022 - 2023*

Society for Behavioral Neuroendocrinology — *Schaumburg, US*
President — *2021 - 2023*

Independent Inquiry Flags Committee — *UT Austin, US*
Commitee Member — *2020 - 2023*

Department of Psychology Graduate Advisory Committee — *UT Austin, US*
Chair — *2019 - 2023*

Department of Psychology — *University of Texas at Austin, US*
Graduate Advisor — *2019 - 2023*

Department of Psychology Diversity Committee — *UT Austin, US*
Commitee Member — *2019 - 2023*

Department of Psychology — *University of Texas at Austin, US*
Associate Chair of Faculty & Student Affairs — *2019 - 2023*

Institute for Neuroscience — *UT Austin, US*
Executive Committee Member — *2018 - 2022*

NICHD T32 Training Grant Common Themes in Reproductive Diversity (CTRD) — *University of Indiana, Bloomington, US*
External Advisory Committee — *2021 - 2021*

WCWH Cluster Hire Committee — *University of Texas at Austin, US*
Member — *2020 - 2021*

Society for Behavioral Neuroendocrinology — *Schaumburg, US*
Preseident-Elect — *2019 - 2021*

Mentoring and Teaching

Mentoring

Amy Howard
Dissertation Advisor — *2022 - present*

Kathryn Mahach
Dissertation Advisor — *2022 - present*

Madeline Streifer
Dissertation Committee Member — *2021 - present*

Margaret Donahue

Dissertation Committee Member — *2020 - present*

Deanna Ross

Dissertaton Advisor — *2019 - present*

Melissa Miller

Dissertaton Advisor — *2018 - 2023*

Jason Ikpatt

Dissertation Committee Member — *2017 - 2023*

Ciara McAfee

Dissertation Committee Member — *2020 - 2022*

Morgan Hernandez

Dissertation Committee Member — *2018 - 2022*

Stefanie Siller

Dissertation Committee Member — *2018 - 2021*

Teaching

Who do you think you are?

Instructor — *2023 - present*

Ethics, Genetics and the Brain

Instructor — *2022 - present*