Frances Anne **Champagne**

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Publications

Journal Articles

1. 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
2. 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
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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
9. 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
10. McCormack, C., Lauriola, V., Feng, T., Lee, S., Spann, M., Mitchell, A., Champagne, F., & Monk, C. (2020). 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
11. Qiu, J., Singh, P., Pan, G., Paolis, A. de, Champagne, F. A., Liu, J., Cardoso, L., & Rodríguez-Contreras, A. (2020). Defining the relationship between maternal care behavior and sensory development in wistar rats: Auditory periphery development, eye opening and brain gene expression. *PLOS ONE*, *15*(8), e0237933. https://doi.org/10.1371/journal.pone.0237933
12. Robakis, T. K., Lee, S., Werner, E., Liu, G., Miller, M., Wylie, D., Champagne, F. A., Salas, M., Do, C., Tycko, B., & Monk, C. (2020). DNA methylation patterns in t lymphocytes are generally stable in human pregnancies but CD3 methylation is associated with perinatal psychiatric symptoms. *Brain, Behavior, & Immunity - Health*, *3*, 100044. https://doi.org/10.1016/j.bbih.2020.100044
13. Champagne, F. A. (2020). Interplay between paternal germline and maternal effects in shaping development: The overlooked importance of behavioural ecology. *Functional Ecology*, *34*(2), 401–413. https://doi.org/10.1111/1365-2435.13411
14. Carlson, L. M., Champagne, F. A., Cory-Slechta, D. A., Dishaw, L., Faustman, E., Mundy, W., Segal, D., Sobin, C., Starkey, C., Taylor, M., Makris, S. L., & Kraft, A. (2020). Potential frameworks to support evaluation of mechanistic data for developmental neurotoxicity outcomes: A symposium report. *Neurotoxicology and Teratology*, *78*, 106865. https://doi.org/10.1016/j.ntt.2020.106865

Preprints

1. 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

2. 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. (2023). Rodent models for studying the impact of variation in early life motherinfant interactions on mood and anxiety. In *Neuromethods* (pp. 309–328). Springer US. https://doi.org/10.1007/978-1-0716-2748-8_15

Professional Presentations

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*

Epigenetic effects of stress

Sociedad Argentina de Investigación en Neurociencias (SAN) Virtual *2020*

Epigenetics and Reproductive Trade-offs in Response to Stress

Society for Integrative and Comparative Biology Annual Meeting *2020*

Epigenetics and Trauma

Roundtable on Legal Remedies for Racial Trauma, Berkeley Law *2020*

Epigenetics as a Link Among Genes, the Environment, and Behavior

Society for Neuroscience Epigenetics & Neurobiology Webinar *2020*

From Behavioral & Environmental Epigenetics to Epigenetic Age Acceleration

Developmental Area Seminar, Department of Psychology, University of Texas at Austin *2020*

Getting off to a Healthy Start: Science and Policy to Guide Early Childhood Development

Prenatal-to-3 Policy Impact Center, JBJ School of Public Affairs, University of Texas at Austin (Virtual) *2020*

Prenatal Influences on Brain Development: Exploring Pathways and Mechanisms

Cognitive Neuroscience Area Seminar, Department of Psychology, University of Texas at Austin *2020*

Technology & Covid-19

World Café 2020, University of Texas at Austin (Virtual) *2020*

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

NICHD T32 Training Grant Common Themes in Reproductive Diversity (CTRD)

External Advisory Committee

University of Indiana, Bloomington, US

2021 - present

Independent Inquiry Flags Committee

Commitee Member

UT Austin, US

2020 - present

Department of Psychology

Graduate Advisor

University of Texas at Austin, US

2019 - present

Department of Psychology

Associate Chair of Faculty & Student Affairs

University of Texas at Austin, US

2019 - present

Department of Psychology Graduate Advisory Committee *UT Austin, US*

Chair *2019 - present*

Department of Psychology Diversity Committee *UT Austin, US*

Commitee Member *2019 - present*

Eunice Kennedy Shriver National Institute of Child Health and Human Development *Bethesda, US*

Commitee Member *2018 - present*

Institute for Neuroscience *UT Austin, US*

Executive Committee Member *2018 - present*

Society for Behavioral Neuroendocrinology *Schaumburg, US*

President *2021 - 2023*

WCWH Cluster Hire Committee *University of Texas at Austin, US*

Member *2020 - 2021*

Society for Behavioral Neuroendocrinology *Schaumburg, US*

Preseident-Elect *2019 - 2021*

Whole Communities Whole Health *University of Texas at Austin, US*

Chair *2019 - 2020*

Mentoring and Teaching

Mentoring

Kathryn Mahach

Dissertation Advisor *2022 - present*

Amy Howard

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 - present*

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*

Won Lee

Dissertation Committee Member *2015 - 2020*

Teaching

Who do you think you are?

Instructor *2023 - present*

Ethics, Genetics and the Brain

Instructor *2022 - present*

Who do you think you are?

Instructor *2021 - 2021*

Ethics, Genetics and the Brain

Instructor *2020 - 2020*

The Developing Brain

Instructor *2020 - 2020*

Who do you think you are?

Instructor *2020 - 2020*