

Partial Publication List for Fear Conditioning System

Clever Sys. Inc.

- Paternal SARS-CoV-2 infection impacts sperm small noncoding RNAs and increases anxiety in offspring in a sex-dependent manner
Nature Communications volume 16, Article number: 9045 (2025)
<https://www.nature.com/articles/s41467-025-64473-0#citeas>
Elizabeth A. Kleeman, Carolina Gubert, Sonali N. Reisinger, Kathryn C. Davidson, Da Lu, Merle Dayton, Liana Mackiewicz, Bethany A. Masson, Pranav Adithya, Alexandra L. Garnham, Gemma Stathatos, Moira K. O'Bryan, Rikeish R. Muralitharan, Francine Z. Marques, Shanshan Li, Huan Liao, Shae McLaughlin, Emmet T. Keough, Michelle Y. Wheeler, Pamudika Kiridena, Marcel Doerflinger, Marc Pellegrini & Anthony J. Hannan
- Prefrontal cortex astrocytes modulate distinct neuronal populations to control anxiety-like behavior
Nature Communications volume 16, Article number: 7819 (2025)
<https://www.nature.com/articles/s41467-025-63131-9#citeas>
Eunyoung Kim, Hairuo Du, Yanqi Tan, Brandon L. Brown, Yaowen Chang, Blanca Díaz-Castro, Jonathan V. Sweedler & Xinzhu Yu
- Theta-encoded information flow from dorsal CA1 to prelimbic cortex drives memory reconsolidation
iScience, *Volume 28, Issue 7* 112821 July 18, 2025
DOI: [10.1016/j.isci.2025.112821](https://doi.org/10.1016/j.isci.2025.112821)
Andressa Radiske^{1,2} · María Carolina Gonzalez^{1,2} · Janine I. Rossato¹ · Sergio Conde-Ocazonez^{1,3} · Martín Cammarota¹
- Tracking conditioned fear in pair-housed mice using deep learning and real-time cue delivery
Neurobiology of Stress, Volume 37, July 2025, 100742
<https://doi.org/10.1016/j.ynstr.2025.100742>
Hannah C. Smith, Zhe Yu, Patrick Yazigi, Benjamin Turley, Adam P. Swiercz, Jeanie Park, Paul J. Marvar
- Disturbed engram network caused by NPTX downregulation underlies aging-related contextual fear memory deficits
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Tao Jin, Yang Yang, Yu Guo, Yi Zhang, Qiumin Le, Nan Huang, Xing Liu, Jintai Yu, Lan Ma & Feifei Wang
- A novel interoceptive subfornical organ to infralimbic cortex circuit relays airway inflammation effects on fear extinction
BioRxiv, Posted July 18, 2025
doi: <https://doi.org/10.1101/2025.07.16.664367>
Emily Allgire, Jaclyn W. McAlees, Rebecca A. Ahlbrand, Elizabeth Mancz, Lauren, L. Vollmer, Andrew Winter, Katherine M.J. McMurray, Laura Maile, Bryan Sanders, William G. Ryan, Allan-Hermann Pool, Igal Ifergan, Eric S. Wohleb, Steve Davidson, Robert E. McCullumsmith, Ian P. Lewkowich, Renu Sah

- The influence of context pre-exposure and shock number on contextual fear conditioning in male and female rats.
Behavioural Brain Research, Volume 496, 5 January 2026, 115856
<https://doi.org/10.1016/j.bbr.2025.115856>
Zoe Anderson, Ryan G. Parsons
- Prebiotics Rescue Gut Microbiome Dysregulation and Enhance Cognitive and Gastrointestinal Function in a Mouse Model of Schizophrenia Get access Arrow
Oxford Academy, Schizophrenia Bulletin, sbaf056, Published: 28 May 2025
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Carolina Gubert, Geraldine Kong, Sheida Shadani, Sasha Connell, Bethany A Masson, Nicholas van de Garde, Vinod K Narayana, Thibault Renoir, Anthony J Hannan
- Decoding the hidden variabilities in mPFC descending pathways across emotional states
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- Cadherin 11 regulates presynaptic vesicle trafficking and neuronal activity in autism-related brain circuit
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- Glycocalyx dysregulation impairs blood–brain barrier in ageing and disease
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