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Publications

JOURNAL ARTICLES

- 1. Aldrich, J. C., Scheinfeld, A. R., Lee, S. E., Dusenbery, K. J., Mahach, K. M., Van de Veire, B. C., Fonken, L. K., & Gaudet, A. D. (2024). Effects of dim light at night in C57BL/6 j mice on recovery after spinal cord injury. *Experimental Neurology*, 375, 114725. https://doi.org/10.1016/j.expneurol.2024.114725
- 2. Lee, S. E., Greenough, E. K., Oancea, P., Scheinfeld, A. R., Douglas, A. M., & Gaudet, A. D. (2023). Sex differences in pain: Spinal cord injury in female and male mice elicits behaviors related to neuropathic pain. *Journal of Neurotrauma*, 40(9–10), 833–844. https://doi.org/10.1089/neu.2022.0482
- 3. Chen, R., Routh, B. N., Gaudet, A. D., & Fonken, L. K. (2023). Circadian regulation of the neuroimmune environment across the lifespan: From brain development to aging. *Journal of Biological Rhythms*, *38*(5), 419–446. https://doi.org/10.1177/07487304231178950
- 4. Chen, R., Routh, B. N., Straetker, J. E., Gibson, C. R., Weitzner, A. S., Bell, K. S., Gaudet, A. D., & Fonken, L. K. (2023). Microglia depletion ameliorates neuroinflammation, anxiety-like behavior, and cognitive deficits in a sex-specific manner in rev-erbα knockout mice. *Brain, Behavior, and Immunity*, 114, 287–298. https://doi.org/10.1016/j.bbi.2023.08.029
- 5. Ince, L. M., Darling, J. S., Sanchez, K., Bell, K. S., Melbourne, J. K., Davis, L. K., Nixon, K., Gaudet, A. D., & Fonken, Laura. K. (2023). Sex differences in microglia function in aged rats underlie vulnerability to cognitive decline. *Brain, Behavior, and Immunity*, 114, 438–452. https://doi.org/10.1016/j.bbi.2023.09.009
- 6. Lee, S. E., Greenough, E. K., Fonken, L. K., & Gaudet, A. D. (2023). Spinal cord injury in mice amplifies anxiety: A novel light-heat conflict test exposes increased salience of anxiety over heat. *Experimental Neurology*, 364, 114382. https://doi.org/10.1016/j.expneurol. 2023.114382
- 7. Fonken, L. K., & Gaudet, A. D. (2022). Neuroimmunology of healthy brain aging. *Current Opinion in Neurobiology*, 77, 102649. https://doi.org/10.1016/j.comb.2022.102649
- 8. 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
- 9. Gaudet, A. D., Fonken, L. K., Ayala, M. T., Maier, S. F., & Watkins, L. R. (2021). Aging and miR-155 in mice influence survival and neuropathic pain after spinal cord injury. *Brain, Behavior, and Immunity*, 97, 365–370. https://doi.org/10.1016/j.bbi.2021.07.003

PREPRINTS

- 1. Lee, S. E., Greenough, E. K., Fonken, L. K., & Gaudet, A. D. (2023). Spinal cord injury in mice amplifies anxiety: A novel light-heat conflict test exposes increased salience of anxiety over heat. https://doi.org/10.1101/2023.01.13.523970
- 2. Aldrich, J. C., Scheinfeld, A. R., Lee, S. E., Dusenbery, K. J., Mahach, K. M., Van de Veire, B. C., Fonken, L. K., & Gaudet, A. D. (2023). Effects of dim light at night in C57BL/6J mice on recovery after spinal cord injury. https://doi.org/10.1101/2023.09.15.557980
- 3. Lee, S. E., Greenough, E. K., Oancea, P., Scheinfeld, A. R., Douglas, A. M., & Gaudet, A. D. (2022). Sex differences in pain: Spinal cord injury in female and male mice elicits behaviors related to neuropathic pain. https://doi.org/10.1101/2022.10.18.512805
- 4. Lee, S. E., Park, S.-H., Aldrich, J. C., Fonken, L. K., & Gaudet, A. D. (2022). *Anxiety-like behaviors in mice unmasked: Revealing sex differences in anxiety using a novel light-heat conflict test*. https://doi.org/10.1101/2022.09.02.506410
- 5. 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

Воокѕ

BOOK CHAPTERS

1. Gaudet, A. D., & Greenough, E. K. (2023). Circadian rhythms regulate neuroinflammation after traumatic brain injury and spinal cord injury. In *Biological implications of circadian disruption* (pp. 183–205). Cambridge University Press. https://doi.org/10.1017/9781009057646.009

Professional Presentations	
Circadian control of neuroinflammation after spinal cord injury	
Winter Conference for Brain Research, Breckenridge, CO	2024
Neuroimmune regulation of biology and behavior	
KEYNOTE SPEAKER, ANNUAL SOCIETY FOR NEUROSCIENCE WINTER SYMPOSIUM, TEXAS A&M UNIVERSITY INSTITUTE FOR	2022
Neuroscience, Texas A&M University, College Station, TX.	2023
Targeting neuroinflammation and the circadian system to improve repair after spinal cord	
injury	
Drexel University, Philadelphia, PA	2022
Targeting neuroinflammation to improve repair after spinal cord injury	
MD Anderson Cancer Center and University of Texas at Austin	2022
The circadian system: roles in repair after spinal cord injury	
National Neurotrauma Society 2022 Symposium, Atlanta, GA	2022
Spinal cord injury in rodents alters neuroinflammation, affective function, and circadian	
rhythms Mission Connect – TIRR Foundation	2021
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Wallerian degeneration: Preclinical insight into peripheral nerve repair MASSACHUSETTS GENERAL HOSPITAL, HARVARD MEDICAL SCHOOL	2021
WASSACHUSETTS GENERAL MUSPITAL, MARVARD MEDICAL SCHOOL	2021
Conference Abstracts	
Effects of circadian disruption via dim light at night in C57BL/6J mice on recovery after	
spinal cord injury	
MISSION CONNECT ANNUAL MEETING	2023
Spinal cord injury in mice amplifies anxiety: a novel light-heat conflict test exposes increased salience of anxiety over heat	
International Symposium on Neural Regeneration	2023
Spinal cord injury in mice amplifies anxiety: a novel light-heat conflict test exposes increased salience of anxiety over heat	
NATIONAL NEUROTRAUMA SOCIETY 2023 SYMPOSIUM	2023
Spinal cord injury in mice amplifies anxiety: a novel light-heat conflict test exposes	
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The phagocytic receptor MerTK is required for typical repair and locomotor recovery after spinal cord injury	
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Revealing anxiety differences between sexes and after neurotrauma using a novel light-heat	
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The phagocytic receptor MerTK is required for typical repair and locomotor recovery after spinal cord injury	
Mission Connect Annual Meeting	2022
A novel heat-light conflict test for mice unmasks latent anxiety behavior in females and after	
spinal cord injury	
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A novel heat-light conflict test for mice unmasks latent anxiety behavior in females and after	r
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Investigating sex differences in mouse neuropathic pain after spinal cord injury	
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10X GENOMICS	2021
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College Research Fellowship Award	Austin, US
The University of Texas at Austin	2021
Funding	
Circadian control of neuroinflammation after spinal cord injury	National Institute of Neurologica Disorders and Stroke, R01NS131806
FUNDING: \$444,737	2023 - 2028
Disrupted Circadian Regulation of Cell Migration at CNS-Immune Interfaces in Aging and Alzheimer's Disease	National Institutes of Health, R01-AG078758
FUNDING:	2022 - 2027
Targeting phagocytic-neuroimmune pathways to enhance recovery after spinal cord injury	Mission Connect, a program of the TIRR Foundation, 022-101
FUNDING:	2022 - 2024
Targeting DLK to improve neuroprotection and recovery after spinal cord injury	University of Texas MD Andersor Cancer Center,
FUNDING:	2022 - 2023
Nasal-Based Microbe Neuromodulator Delivery FUNDING:	U.S. Department of Defense, 2021 - 2022
Inhibiting microRNA-155 in mice to improve SCI repair FUNDING:	Wings for Life, 139 2016 - 2021
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Journal of Neurotrauma	San Francisco, US

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