

# Andrew D. Gaudet

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## Publications

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### 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/6j 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-erba 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.conb.2022.102649>
8. Lee, W., Milewski, T. M., Dworz, 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., Dworz, 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. 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

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<b>Circadian control of neuroinflammation after spinal cord injury</b>	2024
WINTER CONFERENCE FOR BRAIN RESEARCH, BRECKENRIDGE, CO	
<b>Neuroimmune regulation of biology and behavior</b>	2023
KEYNOTE SPEAKER, ANNUAL SOCIETY FOR NEUROSCIENCE WINTER SYMPOSIUM, TEXAS A&M UNIVERSITY INSTITUTE FOR NEUROSCIENCE, TEXAS A&M UNIVERSITY, COLLEGE STATION, TX.	
<b>Targeting neuroinflammation and the circadian system to improve repair after spinal cord injury</b>	2022
DREXEL UNIVERSITY, PHILADELPHIA, PA	
<b>Targeting neuroinflammation to improve repair after spinal cord injury</b>	2022
MD ANDERSON CANCER CENTER AND UNIVERSITY OF TEXAS AT AUSTIN	
<b>The circadian system: roles in repair after spinal cord injury</b>	2022
NATIONAL NEUROTRAUMA SOCIETY 2022 SYMPOSIUM, ATLANTA, GA	
<b>Spinal cord injury in rodents alters neuroinflammation, affective function, and circadian rhythms</b>	2021
MISSION CONNECT – TIRR FOUNDATION	
<b>Wallerian degeneration: Preclinical insight into peripheral nerve repair</b>	2021
MASSACHUSETTS GENERAL HOSPITAL, HARVARD MEDICAL SCHOOL	

# Conference Abstracts

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<b>Spinal cord injury in mice amplifies anxiety: a novel light-heat conflict test exposes increased salience of anxiety over heat</b>	2023
INTERNATIONAL SYMPOSIUM ON NEURAL REGENERATION	
<b>The phagocytic receptor MerTK is required for typical repair and locomotor recovery after spinal cord injury</b>	2023
NATIONAL NEUROTRAUMA SOCIETY 2023 SYMPOSIUM	
<b>The phagocytic receptor MerTK is required for typical repair and locomotor recovery after spinal cord injury</b>	2023
INTERNATIONAL SYMPOSIUM ON NEURAL REGENERATION	
<b>Revealing anxiety differences between sexes and after neurotrauma using a novel light-heat conflict test</b>	2022
MISSION CONNECT ANNUAL MEETING	
<b>The phagocytic receptor MerTK is required for typical repair and locomotor recovery after spinal cord injury</b>	2022
MISSION CONNECT ANNUAL MEETING	
<b>A novel heat-light conflict test for mice unmasks latent anxiety behavior in females and after spinal cord injury</b>	2021
MISSION CONNECT FOUNDATION SYMPOSIUM	
<b>A novel heat-light conflict test for mice unmasks latent anxiety behavior in females and after spinal cord injury</b>	2021
SOCIETY FOR NEUROSCIENCE	
<b>Investigating sex differences in mouse neuropathic pain after spinal cord injury</b>	2021
MISSION CONNECT FOUNDATION SYMPOSIUM	

# Honors

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## Award, Raymond Dickson Centennial Endowed Teaching Fellowship

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2022

## Visium Core Lab Grant Program Award

10X GENOMICS

Pleasanton, US

2021

## Nominee, Josefina Paredes Endowed Teaching Award

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2021

## College Research Fellowship Award

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2021

# Funding

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## Circadian control of neuroinflammation after spinal cord injury

FUNDING: \$444,737

National Institute of Neurological  
Disorders and Stroke, R01NS131806

2023 - 2028

## Disrupted Circadian Regulation of Cell Migration at CNS-Immune Interfaces in Aging and Alzheimer's Disease

FUNDING:

National Institutes of Health,  
R01-AG078758

2022 - 2027

## Targeting phagocytic-neuroimmune pathways to enhance recovery after spinal cord injury

FUNDING:

Mission Connect, a program of the  
TIRR Foundation, 022-101

2022 - 2024

## Targeting DLK to improve neuroprotection and recovery after spinal cord injury

FUNDING:

University of Texas MD Anderson  
Cancer Center,

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

# Service

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## Journal of Neurotrauma

EDITORIAL BOARD MEMBER

San Francisco, US

2023 - present

## International Online Spinal Cord Injury Seminars (I-OSCIRS)

CHAIR

Lexington, US

2022 - present

## Dell Medical School Laboratory Tour and Workshop, Institute for Neuroscience (INS) Bootcamp for incoming graduate students, UT-Austin

FACILITATOR

Austin, US

2021 - present

## International Online Spinal Cord Injury Seminars (I-OSCIRS)

CHAIR, PROGRAMMING COMMITTEE

Lexington, US

2021 - present

## IDEAS Committee, Psychology, UT-Austin

MEMBER

Austin, US

2020 - present

## In Conversations panelist discussion for graduate students. "Achieving work-life balance to enhance wellbeing." Psychology, UT-Austin

FACILITATOR

Austin, US

2022 - 2022

## In Conversations panelist discussion for graduate students. "Navigating graduate school: Peaks and potholes on the path to success," Psychology, UT-Austin

FACILITATOR

Austin, US

2022 - 2022

## Executive Committee, Psychology, UT-Austin

MEMBER

Austin, US

2021 - 2022

## In Conversations panelist discussion for graduate students. “Productivity,” Psychology, UT-Austin

FACILITATOR

Austin, US

2021 - 2021

## Navigating the Mentor-Trainee Relationship Session, Graduate Student Bootcamp, Psychology, UT-Austin

PANELIST

Austin, US

2020 - 2021

## International Online Spinal Cord Injury Seminars (I-OSCIRS)

CHAIR, TRAINEE AND FOUNDATIONS COMMITTEE

Lexington, US

2020 - 2021

# Mentoring and Teaching

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## MENTORING

### Victoria Nemchek

DISSERTATION COMMITTEE MEMBER

NA - present

### Sojeong Lee

UNDERGRADUATE RESEARCH SUPERVISOR

2023 - present

### Candace Li

UNDERGRADUATE RESEARCH SUPERVISOR

2023 - present

### Alma Perez

UNDERGRADUATE RESEARCH SUPERVISOR

2023 - present

### Brandy Routh

DISSERTATION COMMITTEE MEMBER

2022 - present

### Ashley Scheinfeld

DISSERTATION SUPERVISOR

2022 - present

### L. Kate Davis

DISSERTATION COMMITTEE MEMBER

2021 - present

### Liwen (Kevin) Zhou

DISSERTATION COMMITTEE MEMBER

2021 - present

### Sydney Lee

DISSERTATION SUPERVISOR

2020 - present

### Sam Bazzi

DISSERTATION COMMITTEE MEMBER

2019 - present

### Shreya Kumar

UNDERGRADUATE RESEARCH SUPERVISOR

2020 - 2023

### Ruizhuo (Rachel) Chen

DISSERTATION COMMITTEE MEMBER

2020 - 2023

### Kevin Sanchez

DISSERTATION COMMITTEE MEMBER

2020 - 2023

### Paul Oancea

UNDERGRADUATE RESEARCH SUPERVISOR

2019 - 2023

### Kathryn Mahach

DISSERTATION SUPERVISOR

2021 - 2022

### Ashley Scheinfeld

UNDERGRADUATE RESEARCH SUPERVISOR

2020 - 2022

**Qusay Hussein**

UTEAM MENTOR - MENTORSHIP PROGRAM FOR PEOPLE FROM UNDERPRIVILEGED BACKGROUNDS

2018 - 2022

**TEACHING**

**Biopsychology**

INSTRUCTOR

2024 - 2024

**Biological Clocks and Behavior**

INSTRUCTOR

2023 - 2023

**Neuroinflammation in Health and Pathology**

INSTRUCTOR

2022 - 2022

**Biological Clocks and Behavior**

INSTRUCTOR

2021 - 2021

**Current Topics in Behavioral Neuroscience**

INSTRUCTOR

2021 - 2021