

Andrew D. Gaudet

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Publications

JOURNAL ARTICLES

1. 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*. <https://doi.org/10.1089/neu.2022.0482>
2. 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>
3. 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>
4. 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. Lee, S. E., Greenough, E. K., Oancea, P., 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>
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, 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. (2020). The role of microglia in the aging brain: A focus on sex differences. In *Oxford research encyclopedia of neuroscience*.

Professional Presentations

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

Wallerian degeneration: Preclinical insight into peripheral nerve repair

MASSACHUSETTS GENERAL HOSPITAL, HARVARD MEDICAL SCHOOL

2021

Spinal cord injury elicits neuroinflammation and circadian-metabolic disruption

BAYLOR UNIVERSITY

2020

Spinal cord injury elicits neuroinflammation and circadian-metabolic disruption

UNIVERSITY OF KENTUCKY

2020

Spinal cord injury elicits neuroinflammation, neuropathic pain, and circadian disruption: Implications for repair and recovery

INTERNATIONAL ONLINE SPINAL CORD INJURY SEMINARS (I-OSCIRS)

2020

Conference Abstracts

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

The phagocytic receptor MerTK is required for typical repair and locomotor recovery after spinal cord injury

INTERNATIONAL SYMPOSIUM ON NEURAL REGENERATION

2023

Revealing anxiety differences between sexes and after neurotrauma using a novel light-heat conflict test

MISSION CONNECT ANNUAL MEETING

2022

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

MISSION CONNECT FOUNDATION SYMPOSIUM

2021

A novel heat-light conflict test for mice unmasks latent anxiety behavior in females and after spinal cord injury

SOCIETY FOR NEUROSCIENCE

2021

Investigating sex differences in mouse neuropathic pain after spinal cord injury

MISSION CONNECT FOUNDATION SYMPOSIUM

2021

The thermal preference test: A novel behavioral assay that incorporates nociceptive and affective components of SCI-elicited neuropathic pain.

INTERNATIONAL SYMPOSIUM ON NEURAL REGENERATION

2020

Honors

Award, Raymond Dickson Centennial Endowed Teaching Fellowship

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2022

College Research Fellowship Award

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2021

Nominee, Josefina Paredes Endowed Teaching Award

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2021

Visium Core Lab Grant Program Award

10X GENOMICS

Pleasanton, US

2021

Finalist, Josefina Paredes Endowed Teaching Award

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2020

The Rising Innovator Award

TRANSNETYX INC

Cordova, US

2020

Funding

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

International Online Spinal Cord Injury Seminars (I-OSCIRS)

CHAIR

Lexington, US
2022 - present

International Online Spinal Cord Injury Seminars (I-OSCIRS)

CHAIR, PROGRAMMING COMMITTEE

Lexington, US
2021 - present

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

FACILITATOR

Austin, US
2021 - present

Inclusion, Diversity, Equity, & Society (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

International Online Spinal Cord Injury Seminars (I-OSCIRS)

CHAIR, TRAINEE AND FOUNDATIONS COMMITTEE

Lexington, US
2020 - 2021

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

PANELIST

Austin, US
2020 - 2021

"Finding your Mentor," Institute for Neuroscience (INS) Bootcamp for incoming graduate students, UT-Austin

FACILITATOR

Austin, US
2020 - 2020

“How to be a Graduate Student,” Institute for Neuroscience (INS) Bootcamp for incoming graduate students, UT-Austin

FACILITATOR

Austin, US

2020 - 2020

The Art of Critiquing, Psychology Bootcamp for incoming graduate students, Psychology, UT-Austin

PANELIST

Austin, US

2020 - 2020

Mentoring and Teaching

MENTORING

Victoria Nemchek

DISSERTATION COMMITTEE MEMBER

NA - present

Sojeong Lee

UNDERGRADUATE RESEARCH SUPERVISOR

2023 - present

Ashley Scheinfeld

DISSERTATION SUPERVISOR

2022 - present

Brandy Routh

DISSERTATION COMMITTEE MEMBER

2022 - present

Liwen (Kevin) Zhou

DISSERTATION COMMITTEE MEMBER

2021 - present

L. Kate Davis

DISSERTATION COMMITTEE MEMBER

2021 - present

Ruizhuo (Rachel) Chen

DISSERTATION COMMITTEE MEMBER

2020 - present

Kevin Sanchez

DISSERTATION COMMITTEE MEMBER

2020 - present

Sydney Lee

DISSERTATION SUPERVISOR

2020 - present

Paul Oancea

UNDERGRADUATE RESEARCH SUPERVISOR

2019 - present

Sam Bazzi

DISSERTATION COMMITTEE MEMBER

2019 - present

Shreya Kumar

UNDERGRADUATE RESEARCH SUPERVISOR

2020 - 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

Yegene Lee

UNDERGRADUATE HONORS THESIS SUPERVISOR

2019 - 2020

TEACHING

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

Biological Clocks and Behavior

INSTRUCTOR

2020 - 2020

Psychology

INSTRUCTOR

2020 - 2020