

Accepted Manuscript

Title: Little evidence for a chronotolerance effect for impulse noise exposure in the C57BL/6J mouse

Authors: Ryan T. Harrison, Eric C. Bielefeld

PII: S0304-3940(18)30501-9
DOI: <https://doi.org/10.1016/j.neulet.2018.07.028>
Reference: NSL 33718

To appear in: *Neuroscience Letters*

Received date: 9-1-2018
Revised date: 27-6-2018
Accepted date: 18-7-2018

Please cite this article as: Harrison RT, Bielefeld EC, Little evidence for a chronotolerance effect for impulse noise exposure in the C57BL/6J mouse, *Neuroscience Letters* (2018), <https://doi.org/10.1016/j.neulet.2018.07.028>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Little evidence for a chronotolerance effect for impulse noise exposure in the C57BL/6J mouse

Ryan T. Harrison¹, Eric C. Bielefeld^{1*}

¹Department of Speech and Hearing Science, The Ohio State University, Columbus, OH 43210, USA.

Email addresses: RTH: harrison.420@osu.edu

ECB: bielefeld.6@osu.edu

*Corresponding author:

Eric C. Bielefeld

Department of Speech and Hearing Science

The Ohio State University

110 Pressey Hall

1070 Carmack Road

Columbus, OH 43210, USA.

Tel: 1-614-292-9436

Email: Bielefeld.6@osu.edu

Highlights:

- Time of exposure on the light/dark cycle can affect injury.
- A chronotolerance effect has been shown for noise-induced hearing loss.
- Mice were exposed to high-level impulse noise at four different time points.
- No chronotolerance effect was observed for impulse noise-induced threshold shift.

Abstract

Noise-induced hearing loss affects a large number of adults and children worldwide, and continues to be a major public health problem. The cochlea is an organ that maintains delicate metabolic homeostasis and precise mechanical architecture. Disruption of either can cause temporary or permanent injury. Impulse noises, which are short-duration, high-level bursts of sound caused by explosions, such as gunfire, can injure the cochlea through combinations of

Download English Version:

<https://daneshyari.com/en/article/8841341>

Download Persian Version:

<https://daneshyari.com/article/8841341>

[Daneshyari.com](https://daneshyari.com)