

## Accepted Manuscript

Title: Ethological approach to social isolation effects in behavioral studies of laboratory rodents

Author: Hiroyuki Arakawa

PII: S0166-4328(17)31630-3  
DOI: <https://doi.org/10.1016/j.bbr.2017.12.022>  
Reference: BBR 11222

To appear in: *Behavioural Brain Research*

Received date: 1-10-2017  
Revised date: 15-12-2017  
Accepted date: 17-12-2017

Please cite this article as: Arakawa H, Ethological approach to social isolation effects in behavioral studies of laboratory rodents, *Behavioural Brain Research* (2010), <https://doi.org/10.1016/j.bbr.2017.12.022>

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Title:

**Ethological approach to social isolation effects in behavioral studies of laboratory rodents**

Author and affiliation:

Hiroyuki Arakawa\*

Rodent Behavioral Core, Department of Research Administration,  
Case Western Reserve University School of Medicine  
Cleveland, OH, USA

\*Corresponding author

Hiroyuki Arakawa

Email: [hxa171@case.edu](mailto:hxa171@case.edu)

2109 Adelbert Rd.

ARC-RB05P

Cleveland, Ohio, 44106, USA

Running title: Ethological approach to isolation effect

**Highlights:**

- Ethological approach helps to understand the housing effects on rodent behaviors
- Effect of isolation rearing depends on social relationships with cagemates when isolated
- Isolation rearing during critical developmental period induces behavioral agitation
- Short-term isolation rearing disrupts social transmission of information between cagemates

**Abstract:**

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