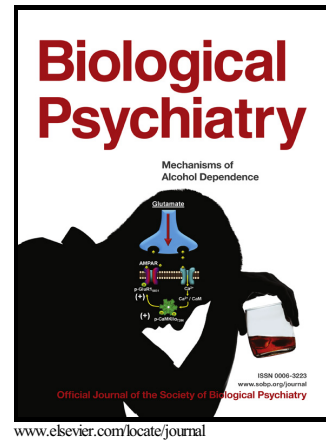


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Compulsive Addiction-Like Aggressive Behavior in Mice

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Title: Compulsive addiction-like aggressive behavior in mice

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Abstract

Background: Some people are highly motivated to seek aggressive encounters, and among those who have been incarcerated for such behavior, recidivism rates are high. These observations echo two core features of drug addiction: high motivation to seek addictive substances, despite adverse consequences, and high relapse rates. Here we used established rodent models of drug addiction to determine whether they would be sensitive to “addiction-like” features of aggression in CD-1 mice.

Methods: In Exp. 1-2, we trained older CD-1 mice to lever-press for opportunities to attack younger C57BL6/J mice. We then tested them for relapse to aggression seeking after forced abstinence or punishment-induced suppression of aggression self-administration. In Exp. 3, we trained a large cohort of CD-1 mice, and tested them for choice-based voluntary suppression of aggression seeking, relapse to aggression seeking, progressive ratio responding, and punishment-induced suppression of aggression self-administration. We then used cluster analysis to identify patterns of individual differences in compulsive “addiction-like” aggressive behavior.

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