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**Stimulus control in two rodent models of Attention-Deficit/Hyperactivity Disorder**

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**Highlights**

- Two potential rodent models of ADHD were tested for stimulus control differences.
- SHR/NCr1 behavior perseverated toward light-cued levers in Experiment 1.
- WKY/NCr1 behavior did not come under the control of cue lights in Experiment 1.
- Interval timing was roughly similar for SHR/NCr1, WKY/NCr1, and WI strains in Experiment 2.
- Latencies to initiate the FI were significantly longer for SHR/NCr1 in Experiment 2.

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