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Article title: Exercise-Induced Hippocampal Neurogenesis is Attenuated by Inhibition of Monocarboxylate Transporter 2.

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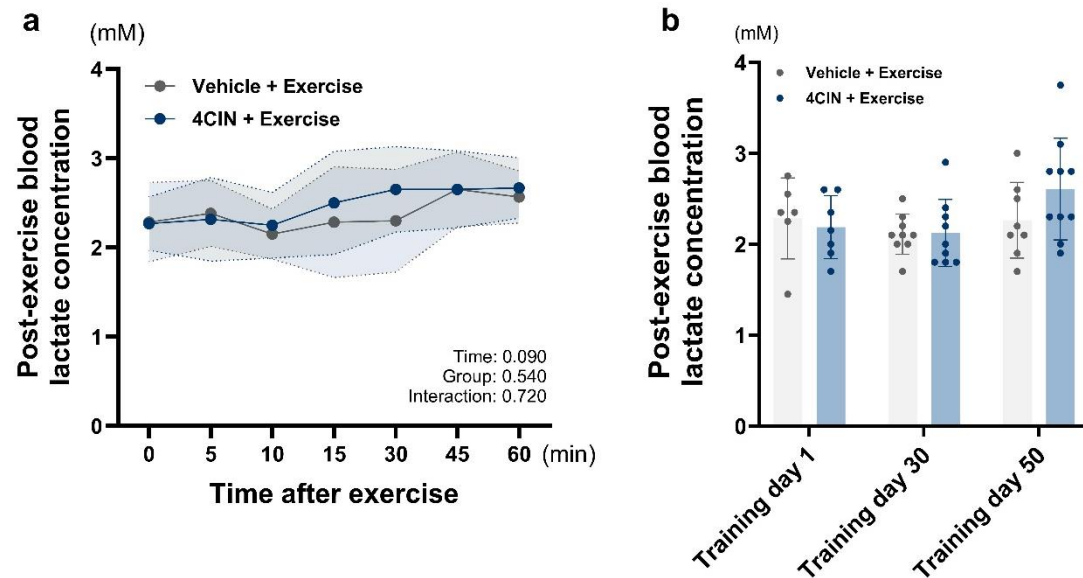
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Week	Speed (m/min)	Duration (min)	Total (min)	Incline (°)
1 st	10 → 15	10 → 50	60	10
2 nd	10 → 15 → 18	5 → 5 → 50		
3 rd	10 → 15 → 18 → 20	5 → 5 → 25 → 25		
4 th		5 → 5 → 15 → 35		
5 th	13 → 16 → 20	5 → 5 → 50		
6 th		5 → 5 → 40 → 10		
7 th	13 → 16 → 20 → 22	5 → 5 → 30 → 20		
8 th		5 → 5 → 20 → 30		

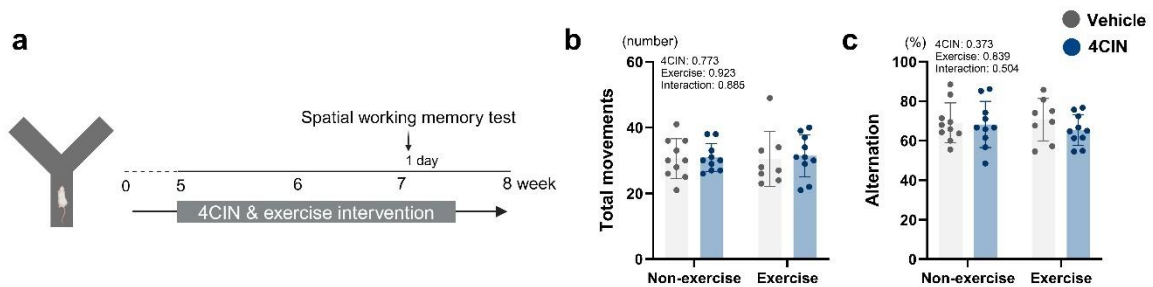
Online Resource Table 1. The protocol of treadmill exercise training. Blue text indicates the warm-up section.

1 st antibody	Source	Identifier	2 nd antibody	Source	Identifier
Rabbit anti-NeuN (1:4000)	Abcam	ab177487	HRP-conjugated goat anti-rabbit (1:10000)	Abcam	ab6721
Rabbit anti-DCX (1:1000)		ab207175			
Rabbit anti-SOX2 (1:1000)		ab92494			
Rabbit anti-FNDC5 (1:1000)		ab131390			
Rabbit anti-BDNF (1:1000)		ab108319			
Mouse anti-MCT2 (1:200)	Santa Cruz	sc-166925	HRP-conjugated goat anti-mouse (1:10000)		ab205719

Online Resource Table 2 The list of antibodies used in the current study. NeuN, hexaribonucleotide binding protein-3; DCX, doublecortin; SOX2, sex determining region Y-box 2; FNDC5, fibronectin type III domain-containing protein 5; BDNF, brain-derived neurotrophic factor; MCT2, monocarboxylate transporter 2; HRP, horseradish peroxidase.



Online Resource Fig. 1 Post-exercise blood lactate concentration. **(a)** The lactate concentration was measured immediately after acute exercise using the 1st week treadmill protocol (Online Resource Table 1). **(b)** The exercise protocol used at the training day 1, 30, and 50 is equal to that of 1st, 5th, and 8th week respectively (Online Resource Table 1). 4CIN, alpha-cyano-4-hydroxycinnamic acid. Data are presented as the mean $\pm$ SD ($n = 8-10$).



Online Resource Fig. 2 Effect of exercise training and 4CIN on spatial working memory. **(a)** Schematic representation of the Y-maze test. Results for **(b)** total movements and **(c)** alternation ($n = 8-10$). 4CIN, alpha-cyano-4-hydroxycinnamic acid. Data are presented as the mean $\pm$ SD