

1 Anodal block permits directional vagus nerve stimulation

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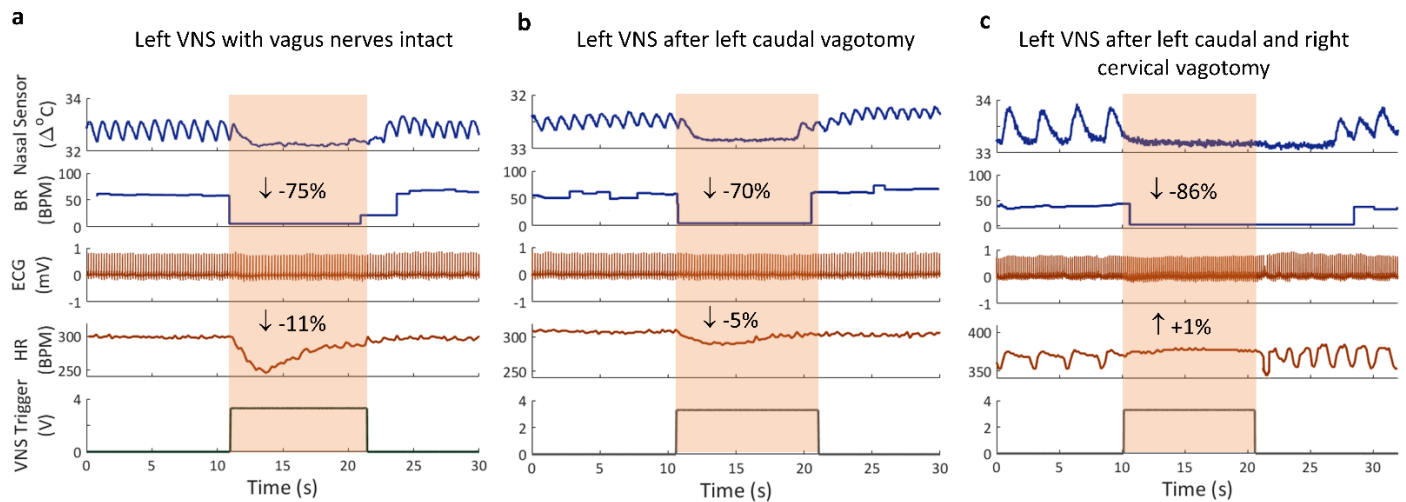
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11 **Supplementary Figure**



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13 **Figure S1. Changes in breathing rate and heart rate after unilateral and bilateral**

14 **vagotomy.**

15 a) Acute physiological effects of left cervical VNS (intensity  $500 \mu\text{A}$ , pulse width  $100 \mu\text{s}$ , pulsing  
16 frequency 30 Hz) with intact left and right vagus. Decreases in breathing rate (BR, -75%) and  
17 heart rate (HR, -11%) are observed during VNS.

18 b) After left caudal vagotomy (unilateral vagotomy) in the same animal, the effect of left VNS  
19 with the same parameters on HR diminishes (-5%), whereas effects on BR remains intact (-  
20 70%).

21 c) After left caudal and right cervical vagotomy (bilateral vagotomy) in the same animal,  
22 the effect of left VNS with the same parameters on HR disappears (+1%), whereas effects on  
23 BR remains intact (-86%).