



Supplementary Figure S1. **A,** Changes in heart rate (HR) and mean arterial pressure (MAP) upon stimulation of the lateral habenula (LHb) with $300 \mu\text{A}$ intensity, 0.5 ms pulse duration and 100 Hz frequency ($300 \mu\text{A}/100$ Hz), 1 mA intensity, 0.5 ms pulse duration and 100 Hz frequency (1 mA/ 100 Hz), and 1 mA intensity, 1 ms pulse duration, 50 Hz frequency (1 mA/ 50 Hz). The stimulation periods (Stim.) are indicated by black bars at the top of each chart. **B,** Response magnitudes of HR and MAP to stimulations of the LHb with $300 \mu\text{A}$, 0.5 ms pulse duration, 100 Hz frequency ($300 \mu\text{A}/100$ Hz), 1 mA intensity, 0.5 ms pulse duration and 100 Hz frequency (1 mA/ 100 Hz) and 1 mA intensity, 1 ms pulse duration and 50 Hz frequency (1 mA/ 50 Hz). The asterisks indicate $p < 0.05$. The stimulations of the LHb always evoked a decrease in HR and an increase in MAP ($n = 5$).