

Acid-sensing ion channels are expressed in the ventrolateral medulla and contribute to central chemoreception

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Supplementary Fig. S1. Effect of different levels of acidification on respiration in the rat

VLM *in vivo*. (a) Unilateral microinjected 0.1 μ l ACSF with different pH value (pH 7.4, 7.0, 6.5 and 6.0) was into the VLM. ACSF with pH 7.0, 6.5 and 6.0 increased raw PND (top) and iPND (bottom), compared with ACSF in pH 7.4. (b-e) Statistical data showing that effects of different acidification on iPND (b), RR (c), Ti (d), respiratory drive (iPND/Ti, e). The stimulating effect of ACSF with pH 7.0 was not significant as compared to pH 7.4 ($P > 0.05$) and that of pH 6.5 and 6.0 was significant. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ relative to pH 7.4, $n = 6$.

