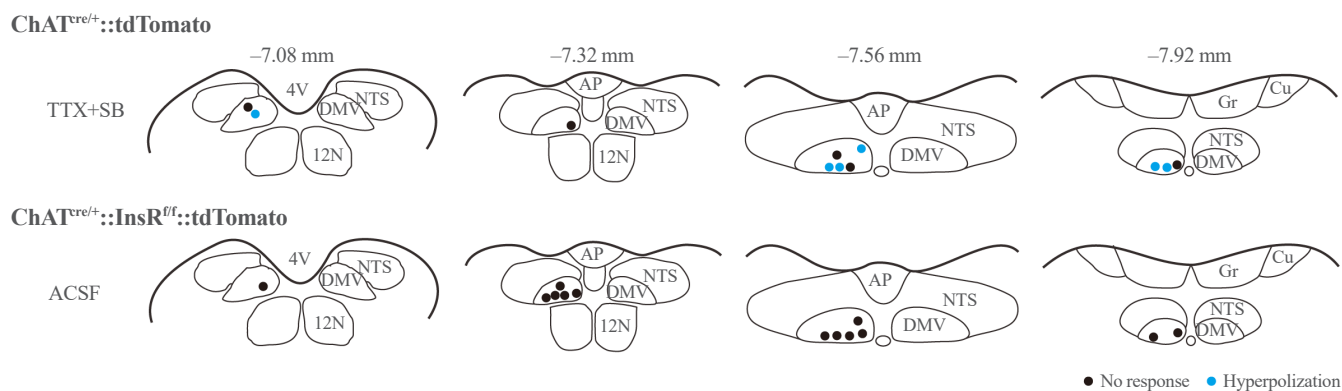


## Insulin responses



**Supplemental Fig. S1.** Summary of insulin effects on parasympathetic preganglionic neurons. Drawings of four rostrocaudal levels of the mouse brainstem summarize location of acute effects of insulin on parasympathetic preganglionic neurons from ChAT<sup>cre/+</sup>::tdTomato mice in the presence of tetrodotoxin (TTX) and synaptic blockers (SBs; upper panels) and ChAT<sup>cre/+</sup>::InsR<sup>fl/fl</sup> mice in control artificial cerebrospinal fluid (ACSF) solutions (lower panels). Blue dots indicate hyperpolarized cells while black dots indicate cells with no effects. 4V, fourth ventricle; 12N, nucleus of the hypoglossal nerve; NTS, nucleus tractus solitarius; DMV, dorsal motor nucleus of the vagus nerve; AP, area postrema; Cu, nucleus cuneatus; Gr, nucleus gracilis; ChAT, choline acetyltransferase; InsR<sup>fl/fl</sup>, insulin receptor flox.