

**Supplemental Table 1.** Comparison of spike properties of unidentified MSNs and identified SNr+ MSNs across genotypes.

	<b>Group</b>	<b>Firing rate (Hz)</b>	<b>Spike duration (ms)</b>	<b>Antidromic spike threshold (<math>\mu</math>A)</b>	<b>Antidromic spike latency (ms)</b>
<b>Unidentified MSNs</b>	WT-veh (29 cells)	$0.0051 \pm 0.003$	$1.28 \pm 0.026$	na	na
	TG5-veh (32 cells)	$0.0814 \pm 0.052$	$1.37 \pm 0.033$	na	na
<b>Identified SNr+ MSNs</b>	WT-veh (17 cells)	$0.0000 \pm 0.000$	$1.33 \pm 0.046$	$858 \pm 111$	$9.9 + 0.9$
	TG5-veh (14 cells)	$0.0020 \pm 0.002$	$1.32 \pm 0.061$	$634 \pm 92$	$9.4 + 0.9$

Data are presented as mean  $\pm$  SEM. Data were analyzed using one-way ANOVA (all MSNs) and t-test (SNr+ MSNs).  $p > 0.05$  for all comparisons. Abbreviations: MSN, medium-sized spiny neuron; TG5, BAC transgenic HD rats; veh, vehicle; WT, wild-type rats.