Table 1. Effects of Antagonists on Acetylcholine- and Histamine-induced Tracheal Contraction

Antagonist	Concentration (μM)	Inhibition of 3 μM AChinduced contraction (%)	Inhibition of 6 μM histamine-induced contraction (%)
Atropine	0.01	$33.5 \pm 2.5$	ig. 3, columns 6, 7).
	0.03	$86.1 \pm 1.9$	
	0.1	$100.0 \pm 0.0$	
	la terenos lei len e bus tardo		$8.5 \pm 0.9$
	3		$31.7 \pm 1.6$
	10		$58.1 \pm 3.4$
4-DAMP	0.01	$56.7 \pm 4.0$	
	0.03	$94.2 \pm 2.9$	
	0.1	$100.0 \pm 0.0$	
	1		$15.5 \pm 2.1$
	3 MOLERU		$34.7 \pm 1.6$
	10		$67.5 \pm 2.2$
Diphenhydramine	0.01	$11.5 \pm 1.8$	$36.8 \pm 3.6$
	0.03	$27.2 \pm 6.2$	$70.9 \pm 3.1$
	ni agot mlu 0.1 n tagradm	$45.6 \pm 2.1$	$100.0 \pm 0.0$
	0.3	$65.4 \pm 4.3$	
	ses the tracher baseline ton	89.1 $\pm$ 1.9	
	that both ind Emethacin (3)	$100.0\pm0.0$	
Mepyramine	0.003		$35.5 \pm 2.5$
	0.01		$94.1 \pm 2.8$
	0.03		$100.0 \pm 0.0$
	ig 4). This inding led us to	$6.5 \pm 1.8$	
	n phase of the MB-induced	$8.3 \pm 1.3$	
	10	$12.4 \pm 1.7$	

## Effects of hemicholinium-3 and 4-DAMP pretreatment on EFS- and MB-induced tracheal contractions

Pretreatment with hemicholinium-3 (100  $\mu$ M) gradually attenuted EFS-induced cholinergic contraction (Fig. 4a) but had no significant effect on MB-induced contraction (p = 0.06, n = 5) (Fig. 3, column 3). 4-DAMP (0.1  $\mu$ M) pretreatment completely abolished EFS-induced cholinergic contraction but not MB-induced contraction (Fig. 4b).

## Effects of compound 48/80 and sodium cromolyn on MB-induced tracheal contraction

Pretreating with compound 48/80 induced a dosedependent tracheal contraction which was completely abolished by mepyramine. After washing it out, compound 48/80 had no effect on basal tension during a second challenge (data not shown). MB-induced contractions were not significantly affected by pretreatment with 2 mg/ml compound 48/80 (p = 0.39, n = 5) (Fig. 3, column 2). Similarly, sodium cromolyn (100  $\mu$ M) pretreatment also showed no significant effect on MB-induced contractions (p = 0.65, n = 5) (Fig. 3, column 4).

## Effects of PEG-SOD and PEG-catalase on MB-induced tracheal contraction

Preincubation with PEG-catalase (300 U/ml) resulted in a minor but insignificant increase of MB-induced tracheal contraction (p = 0.21, n = 5) (Fig. 3,