

Figure 2: The effect of  $[2\text{mM Mg}^{2+} (\text{Ca}^{2+}\text{-free})$  and  $2\text{mM Mg}^{2+} + \text{Ca}^{2+}]$ -insect saline on  $\text{K}^+$ -contractures of locust foregut ( $\bullet$ ) and hindgut ( $\square$ ) muscles. The responses were plotted as a percentage of  $\text{K}^+$ -responses. Each point is the mean of 8 replicates ( $\pm$ SE of mean of both muscles).

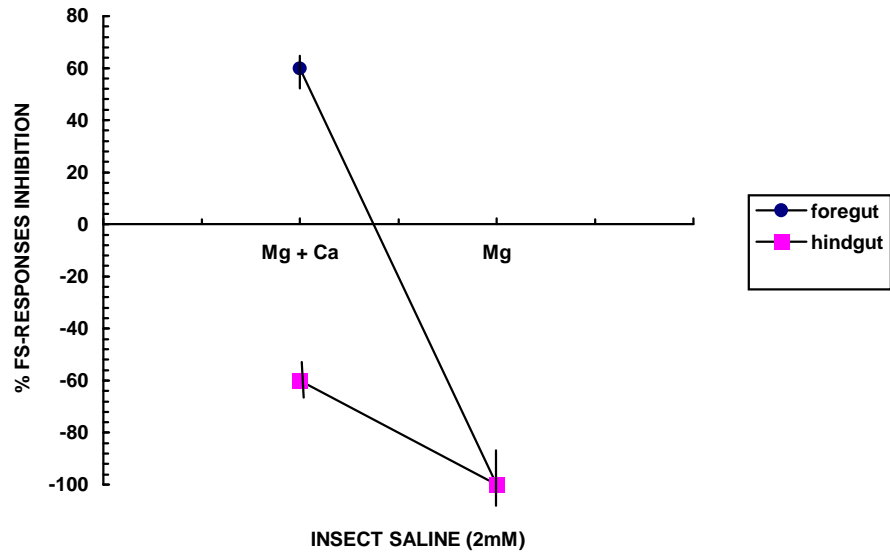


Figure 4: The FS-responses of both locust foregut (·) and hindgut (□) muscles in  $2\text{mM Mg}^{2+}$ -media ( $\text{Ca}^{2+}$ -free) and  $2\text{mM Mg}^{2+} + \text{Ca}^{2+}$ -saline. The responses were plotted as a percentage of a control responses. Each point is the mean of 8 replicates ( $\pm$ SE of mean of both muscles).

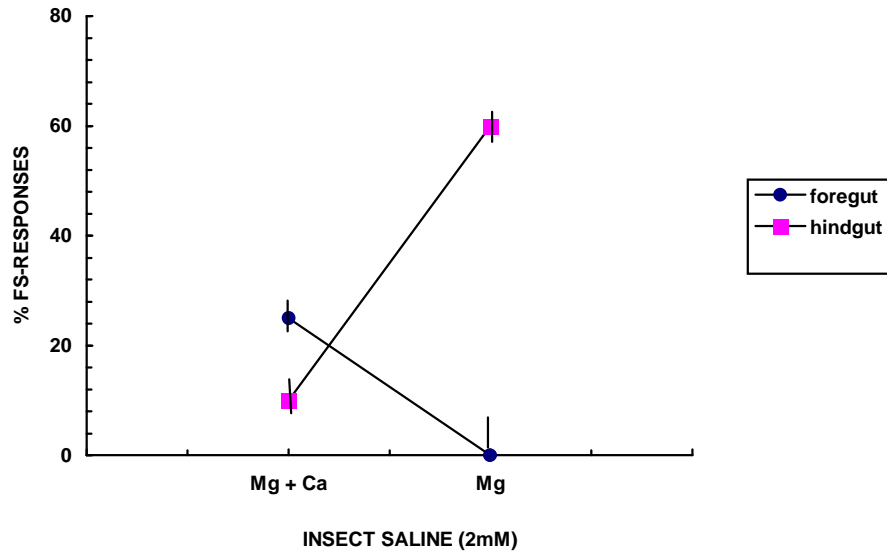


Figure 6: The effect of 5-HT ( $10^{-4}$  M) on FS-responses of both locust foregut (·) and hindgut (□) muscles in  $2\text{mM Mg}^{2+}$ -media ( $\text{Ca}^{2+}$ -free) and  $2\text{mM Mg}^{2+} + \text{Ca}^{2+}$ -saline. The responses were plotted as a percentage of a control responses. Each point is the mean of 8 replicates ( $\pm$ SE of mean of both muscles).