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## **Binaural Unmasking of Frequency-Following Responses in Rat Amygdala**

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**Abstract**

**Keywords:**

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## **INTRODUCTION**

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## **MATERIALS AND METHODS**

### *Animal preparation*

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### *Acoustic stimulation and electrophysiological recording*

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*n*

*n*

*n*

*n*

*absolute*



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*Data analyses*

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$$= \frac{\text{---} \quad \text{---}}{\text{---}} \times$$

*Statistical analyses*

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*Histology*

μ

μ

**RESULTS**

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*Monaural and binaural FFRs when no noise masker was presented*



by

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*Effects of blocking AAC on FFRs to chatter presented in quiet*

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*Binaural unmasking of FFRs to chatter and FFRs to tone complex*



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*Effects of blocking ACC on binaural unmasking of FFRs to chatter*

by

by

by

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## **DISCUSSION**

*Short onset-response latency*

*Frequency dependence and ipsilateral-input dominance of FFRs*

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*Binaural interactions in FFRs*

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*Binaural unmasking*

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*Specificity of FFRs to the chatter*

*Cortically modulated binaural unmasking of FFRs*



$\alpha$

*in vitro*

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*Summary*

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## **ACKNOWLEDGEMENTS**

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## **FIGURE CAPTIONS**

**Figure 1.**

**Figure 2.**

**Figure 3.**

**Figure 4.**

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**Figure 5.**

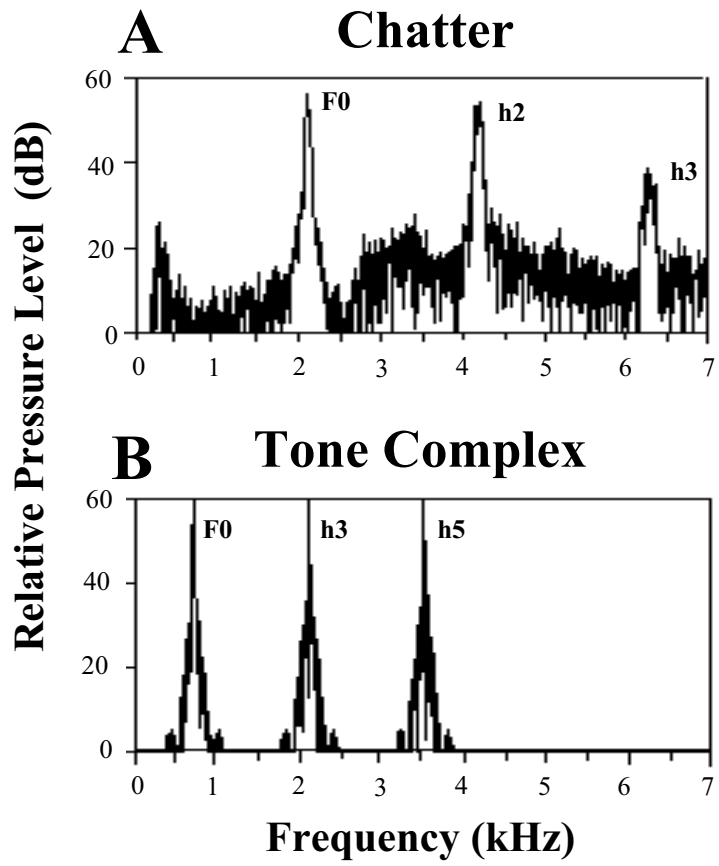
**Figure 6.**



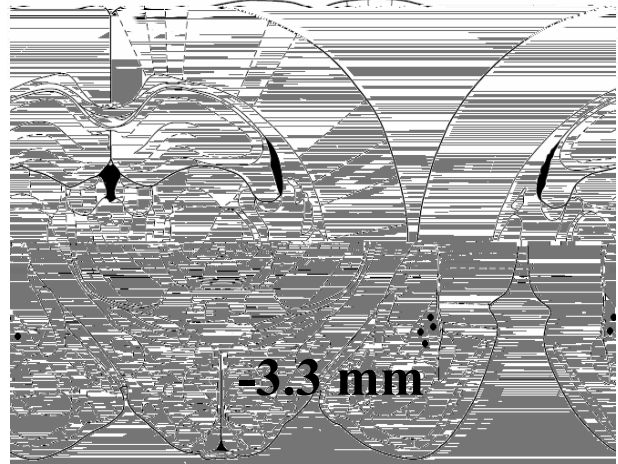
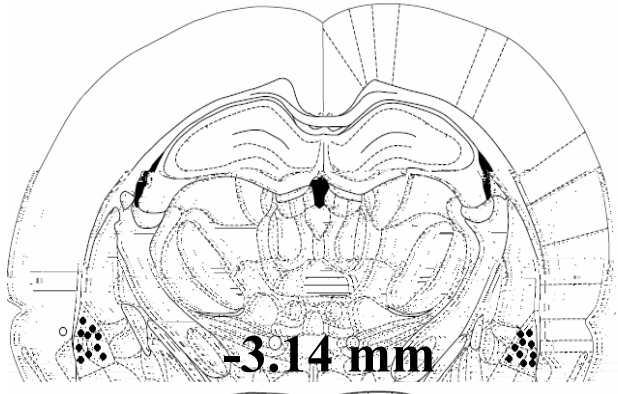
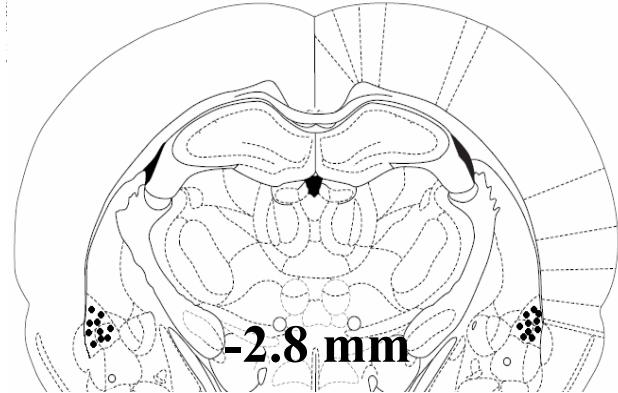
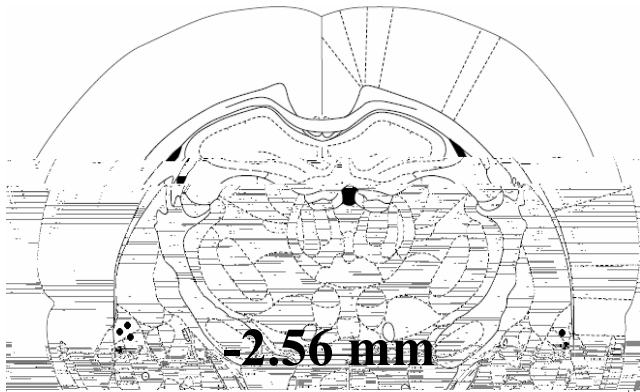
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**Figure 7.**

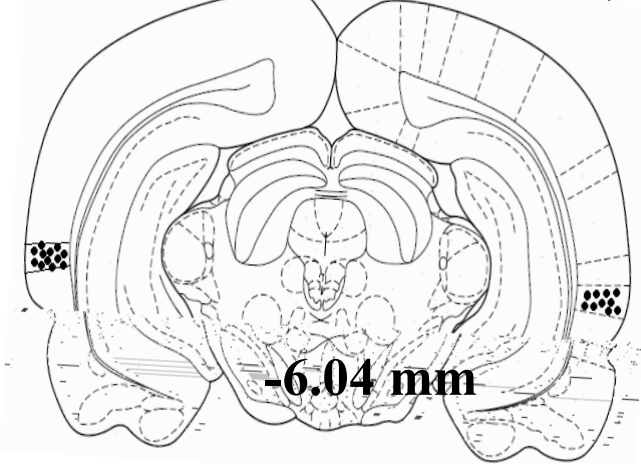
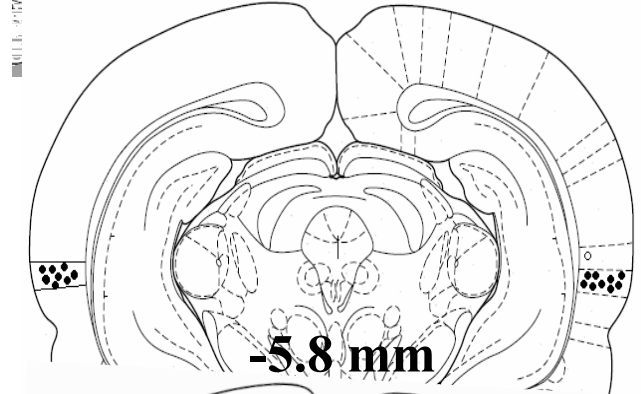
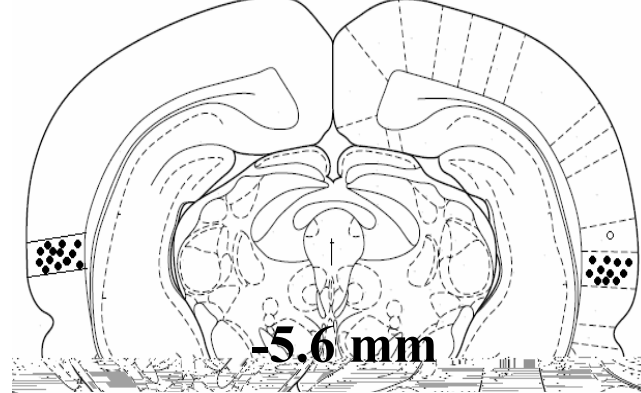
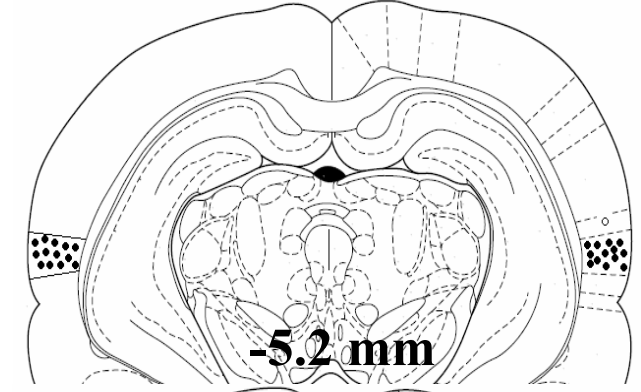
**Figure 8.**

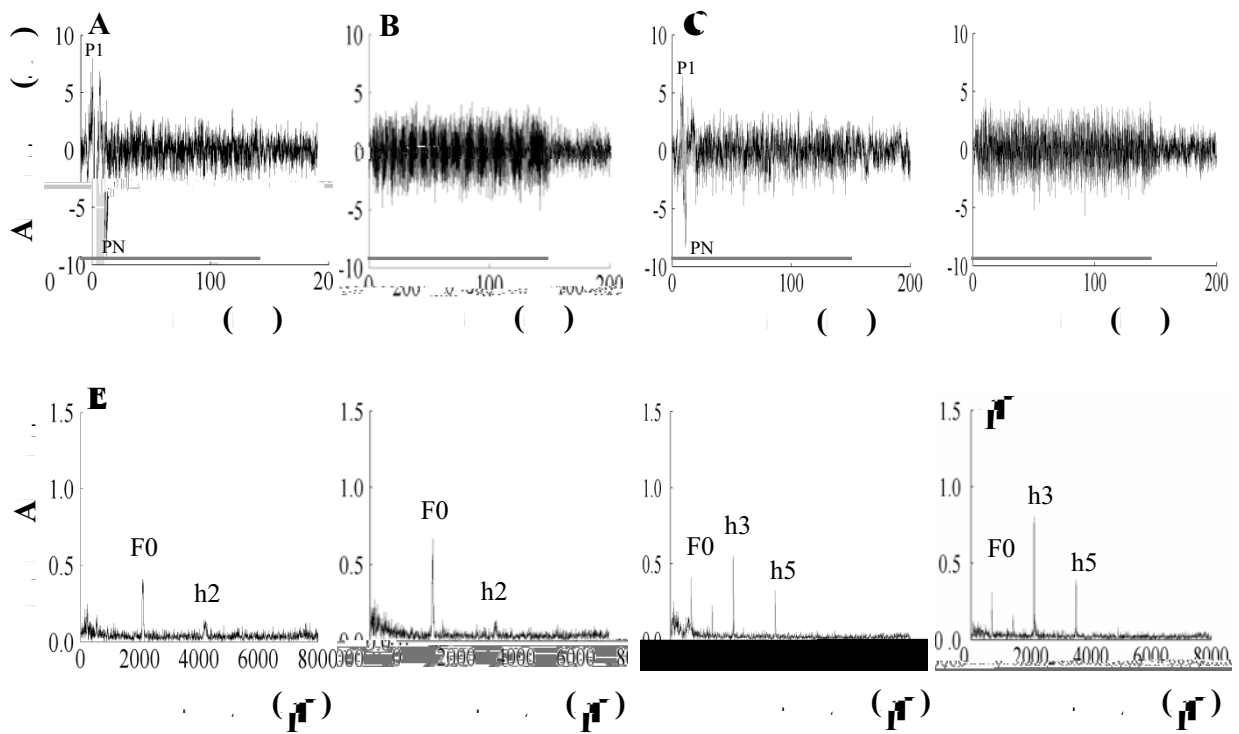


**LA**

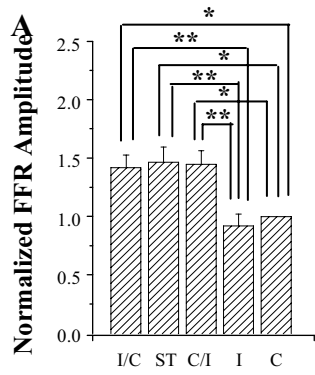


**TE3**



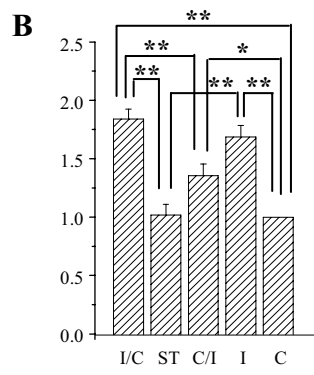


**Tone-F0**

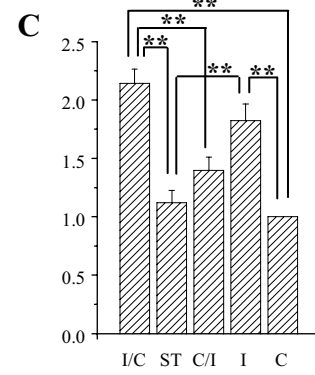


**Tone-h3**

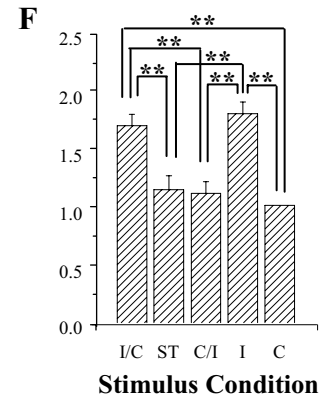
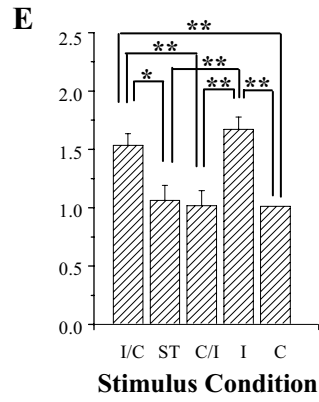
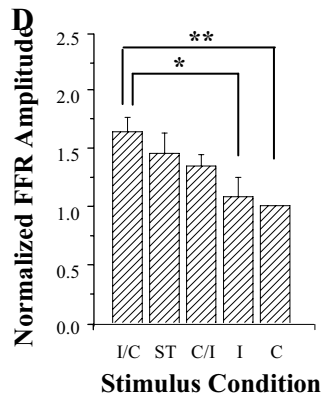
ITD = 0.1 ms



**Chatter-F0**



ITD = 1 ms

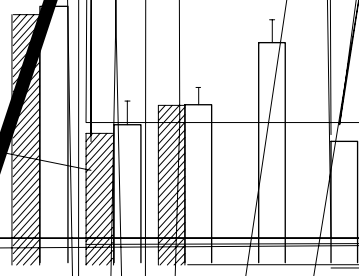


Normali ed F0 Amplit de  $\Delta$ <sup>25</sup>

Normali ed F0 Amplit de C

Stim 1 s Condition

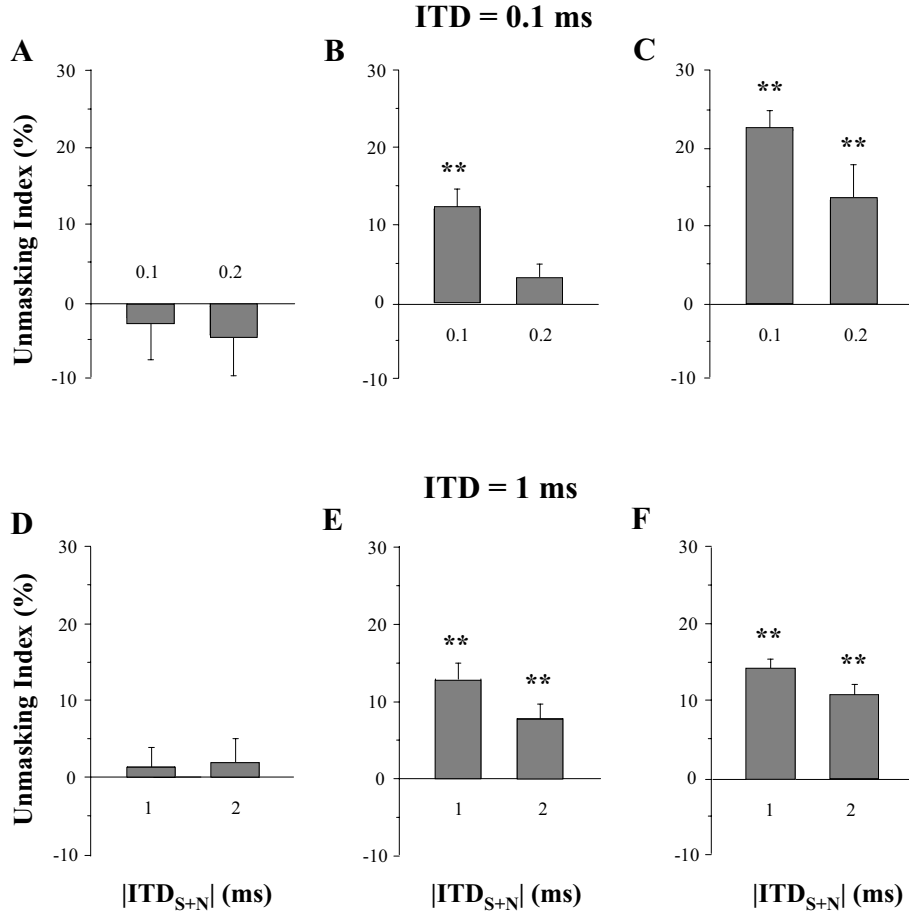
Stim 1 s Condition



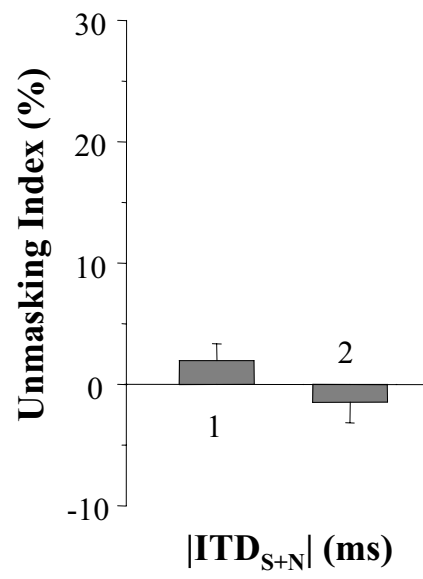
**Tone-F0**

**Tone-h3**

**Chatter-F0**



## Noise-Control

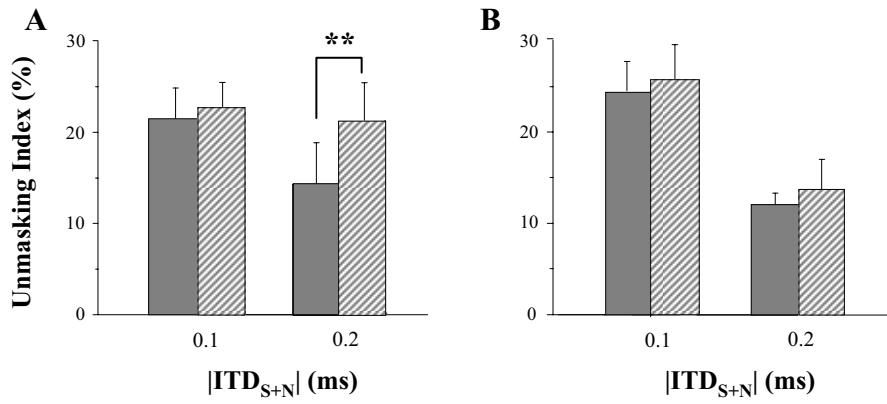




### KYNA

### Locke's

Chatter ITD = 0.1 ms



Chatter ITD = 1 ms

