



Figure S1. Example recordings in AI and HF areas of the AC of *C. perspicillata*.

(A) Spike waveforms and frequency tuning curves measured from two neurons recorded simultaneously in tonotopic fields (AI) using electrode arrays. The arrays are represented as a grid, and the interelectrode spacing was 50 μm . Note that both neurons present frequency tuning curves with V-shape. (B) Spike waveforms and frequency tuning curves measured from high frequency fields (HF). Note that both tuning curves have W-shapes. These results are from a different dataset (experiments conducted by JC Hechavarria).