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SCIENCE

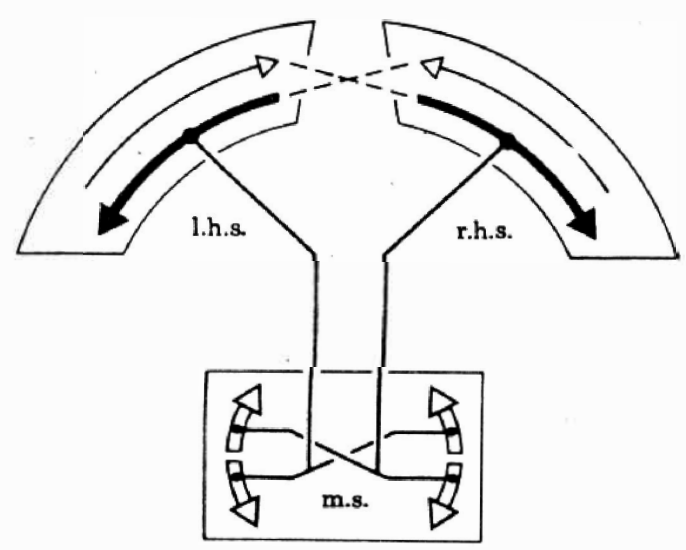
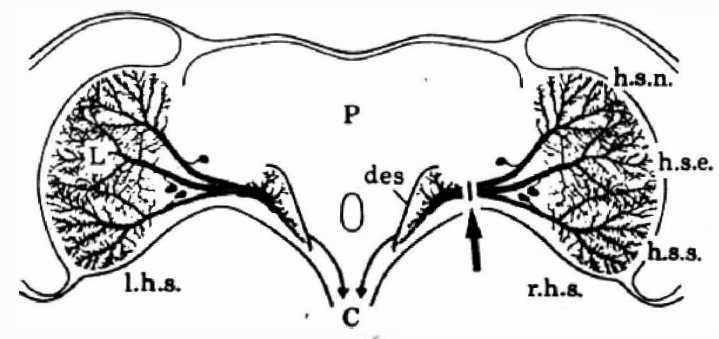
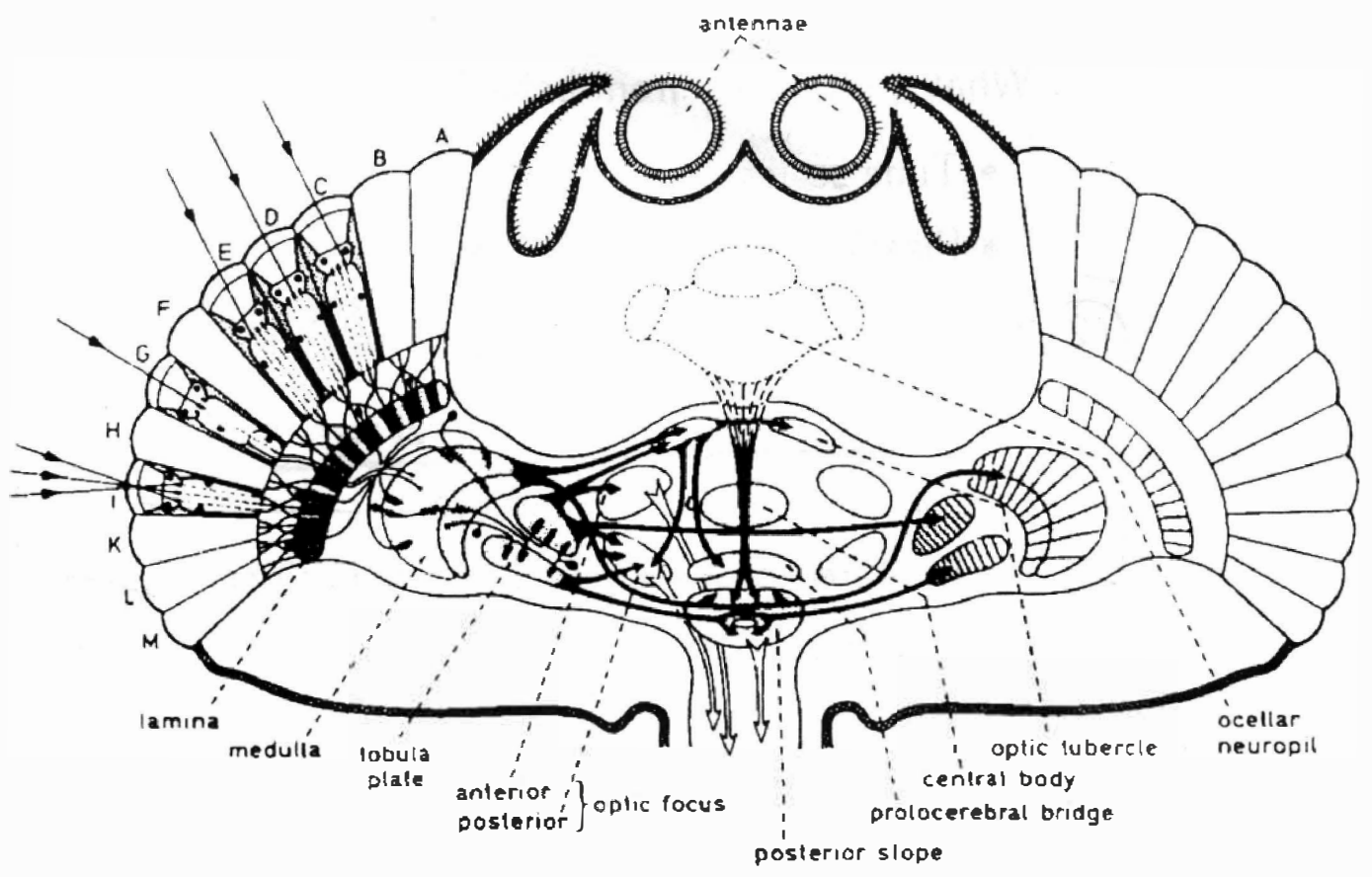
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28 JUNE 1991
VOL. 252 ■ PAGES 1757-1886

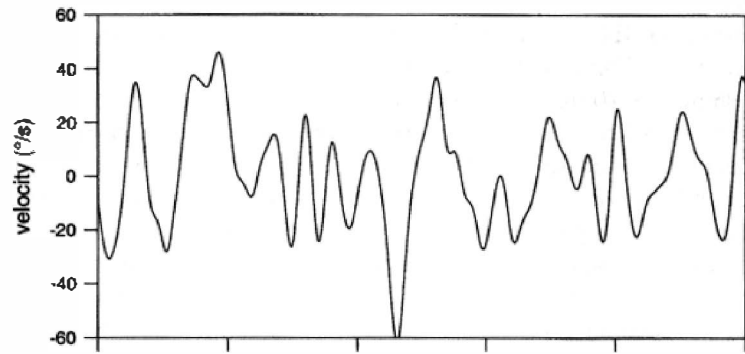
\$6.00



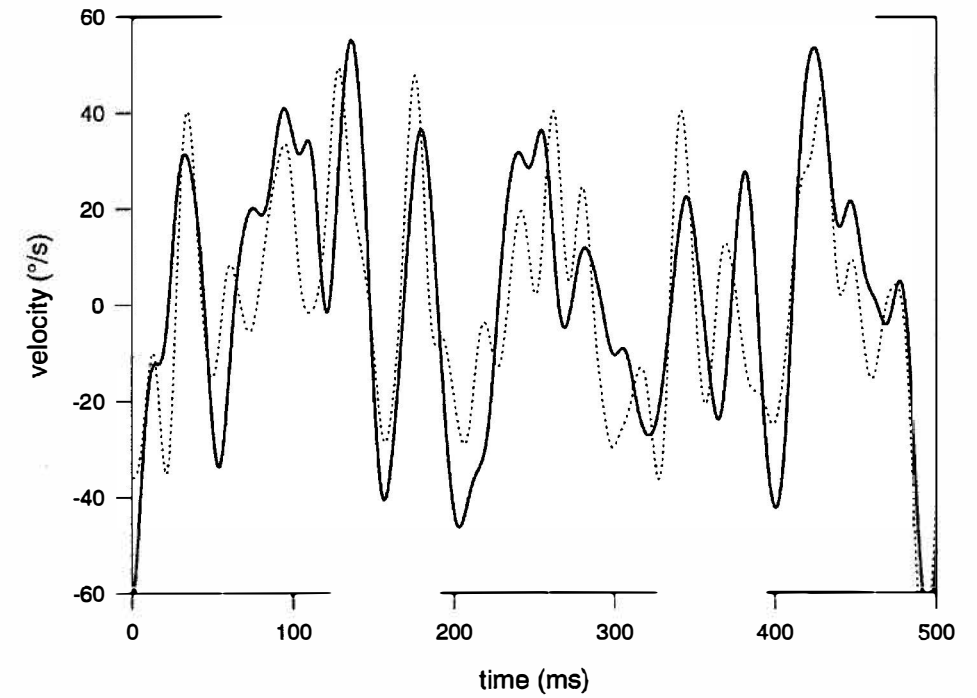
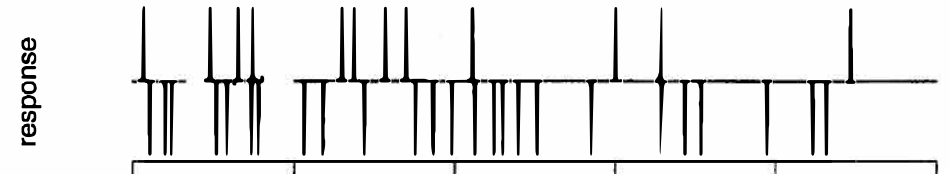
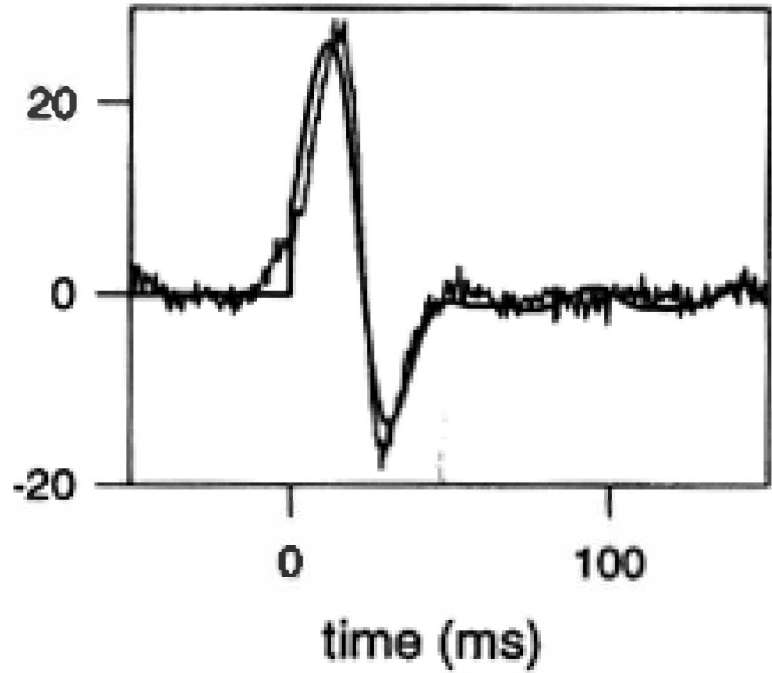
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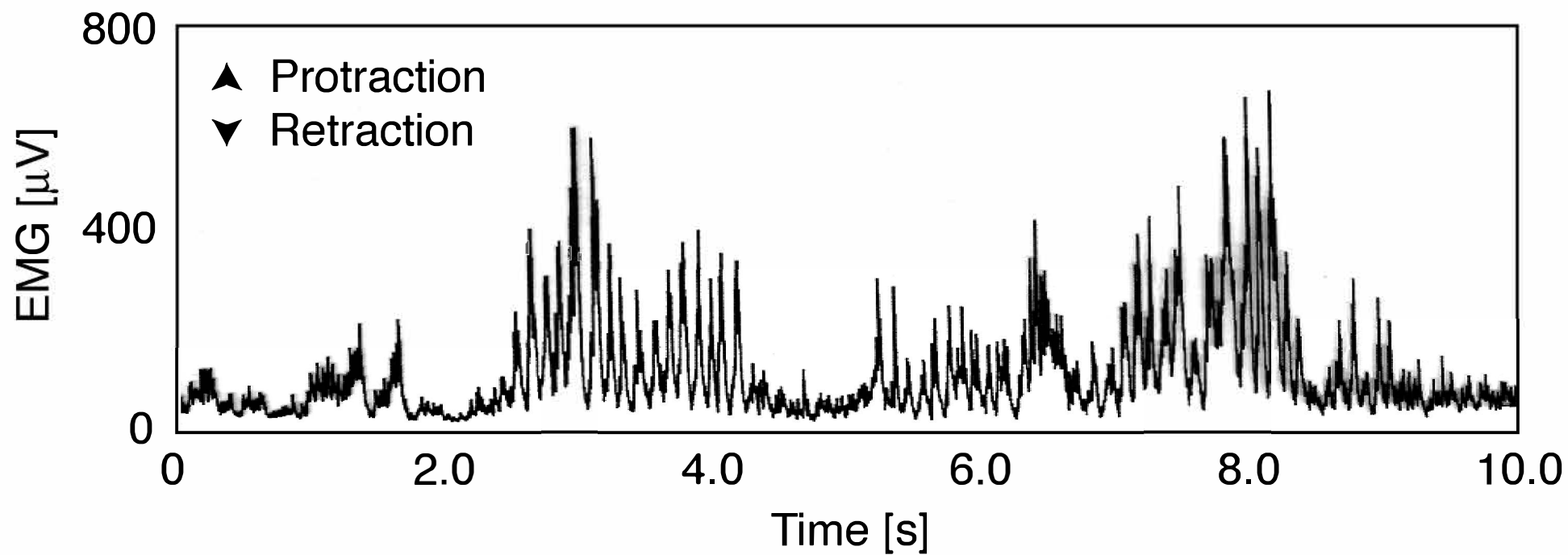
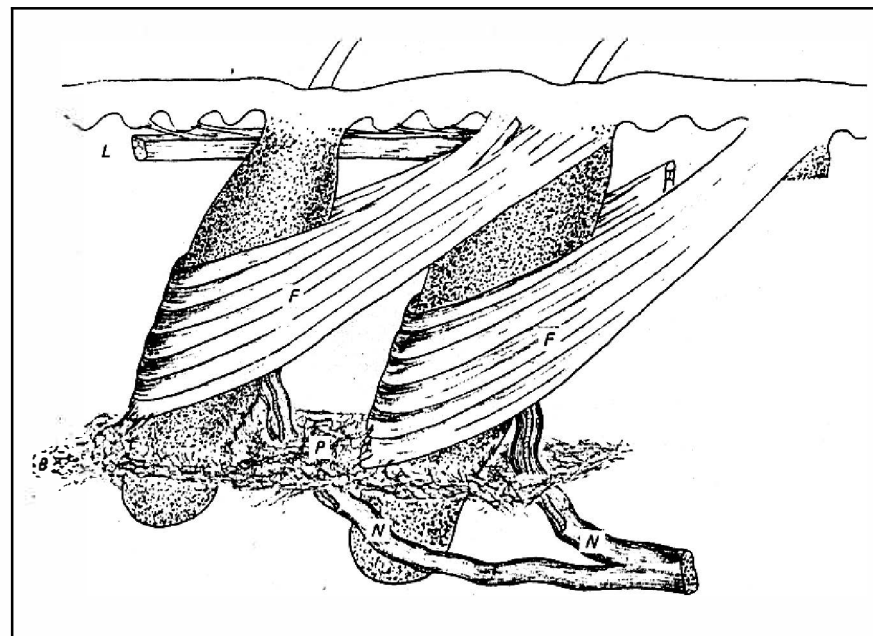
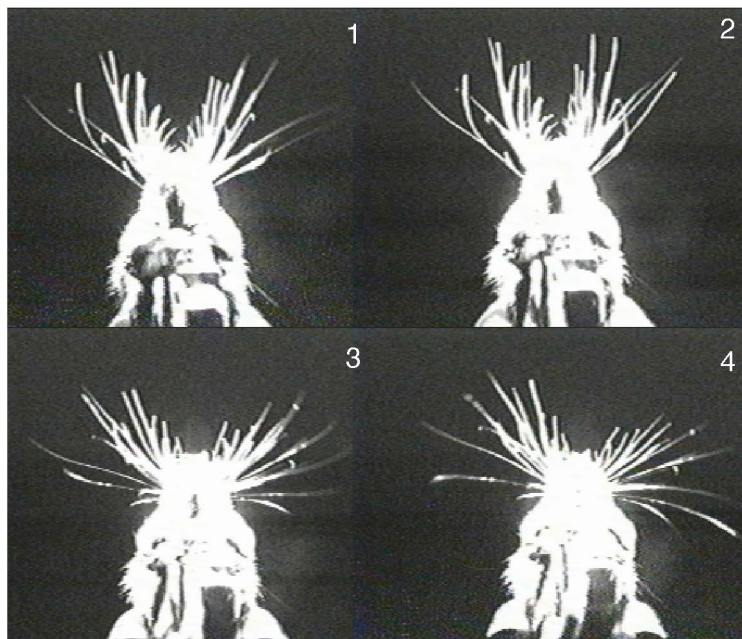


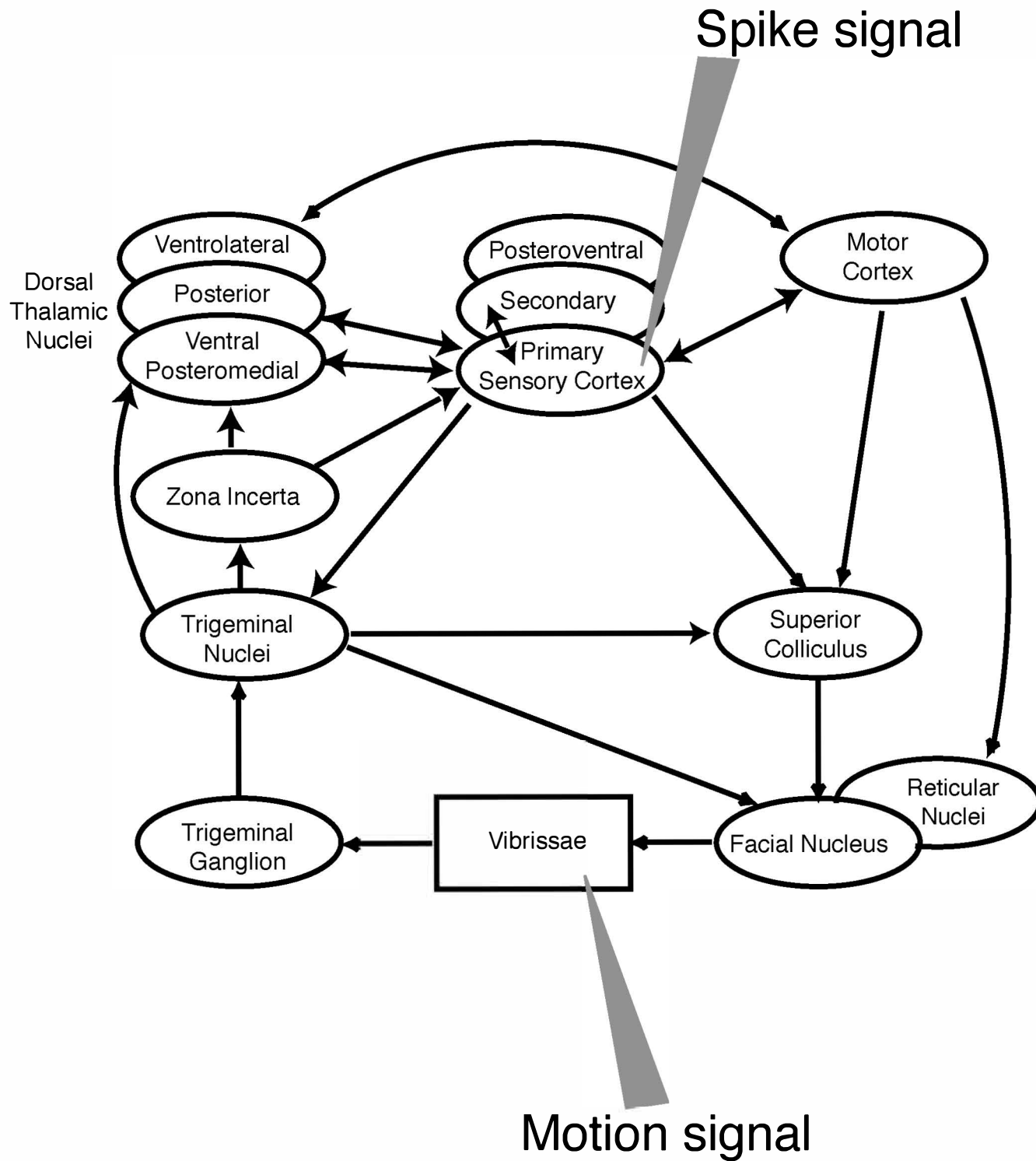
Linear Modeling of the Fly H1 Response



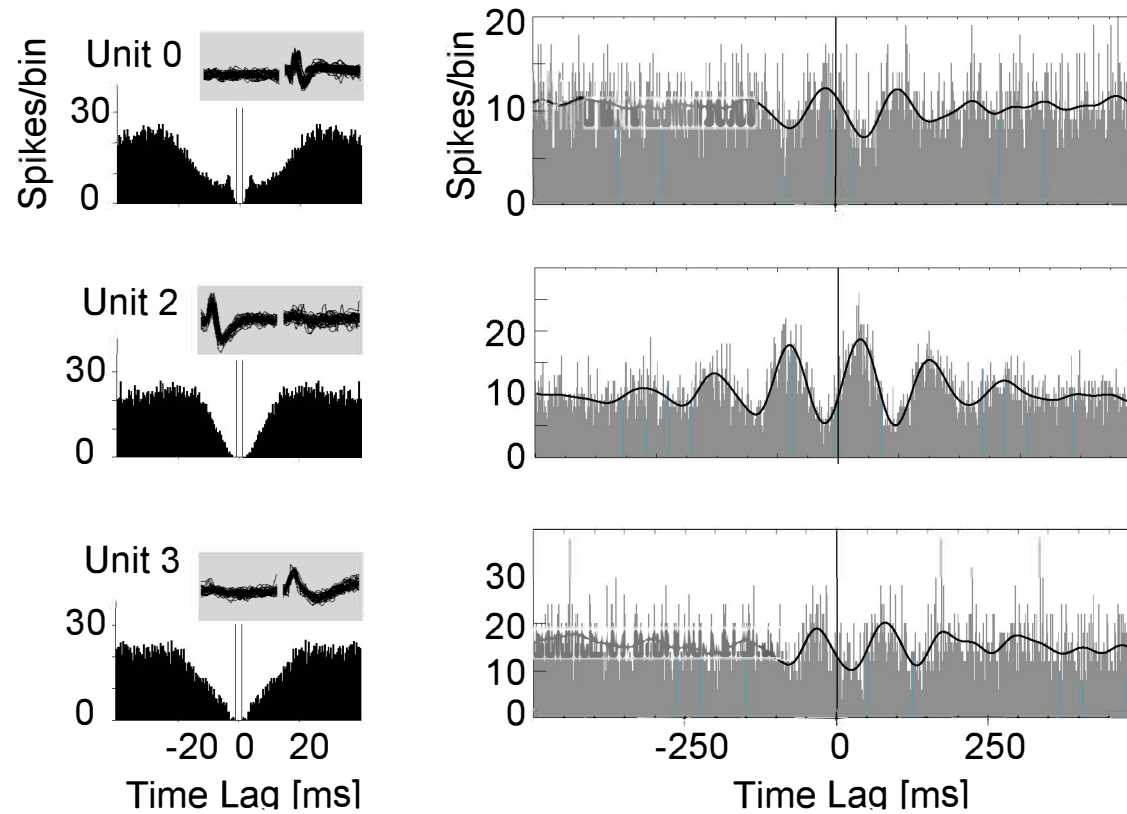
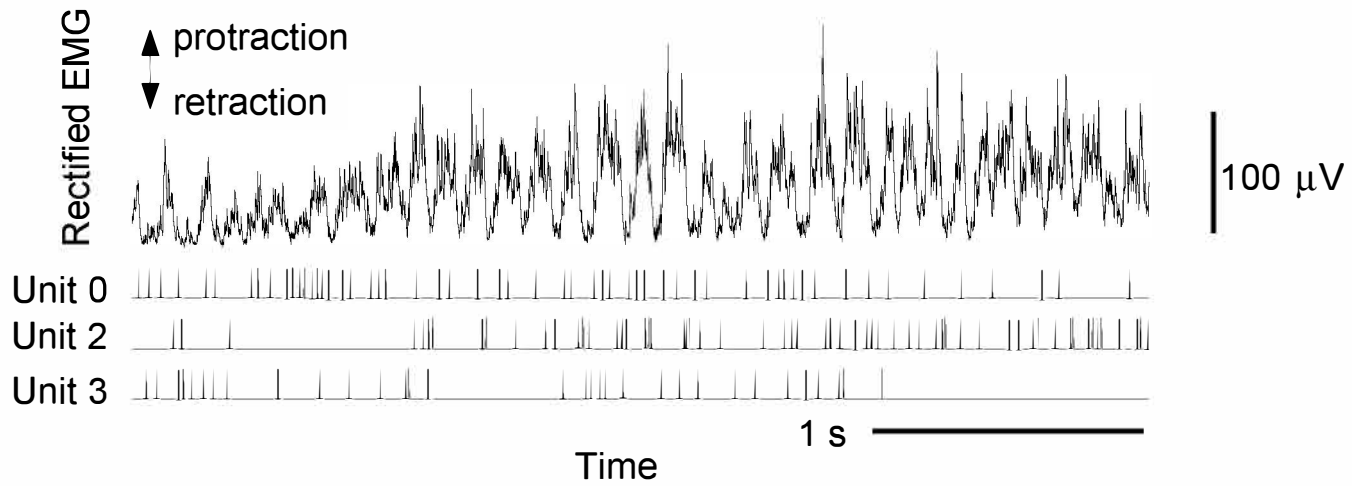
filter amplitude (°/s)







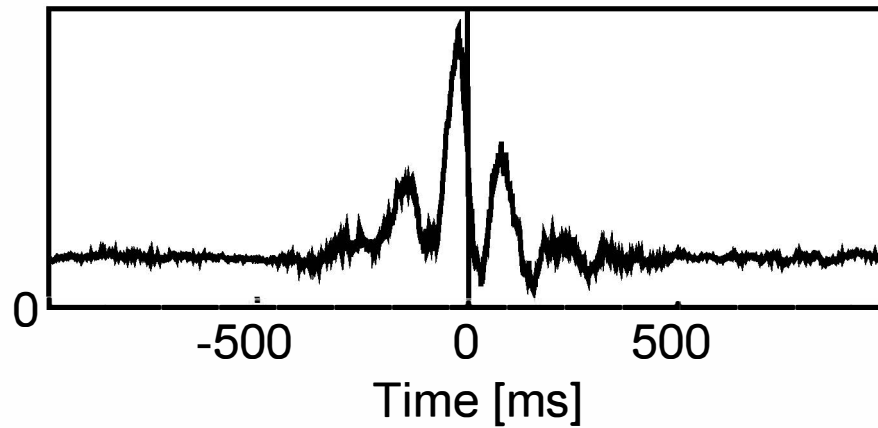
Simultaneous Recording of EMG and Single Units in S1 Cortex



Predicting the Position of the Vibrissae (Mystacial EMG) on a Single-Trial Basis

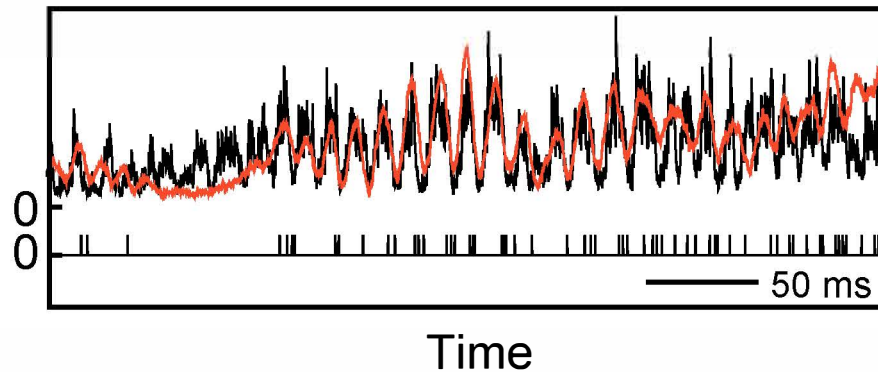


Trial Averaged
Transfer Function, $F(t)$



Measured EMG,
 $E_{\text{meas}}(t)$

Measured Spike Train,
 $S_{\text{meas}}(t)$



Predicted EMG, $E_{\text{pre}}(t)$

$$= \int_{-\infty}^t dt' F(t-t') S_{\text{meas}}(t')$$