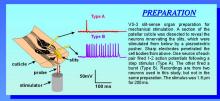
FREQUENCY RESPONSE FUNCTIONS AND INFORMATION CAPACITIES OF PAIRED SPIDER MECHANORECEPTOR NEURONS





INTRODUCTION

the mean rate of action potential production affect dynamic behavior? What are the information capacities of these neurons? Are total information capacities and information protential affected by firing rate?



METHODS

For metahakia idimulation a conserve piece of studies containing the intext US-3 byform organ, was disseated from the patiella of an authorized day authorized on a control neighbor metal handler. The resurron were penetrated with microelectrodes from above. For electrical stimulation we detached the patiellar hypodemic containing the enurons from the cubic and placed to an aglass coversity faced to the bottom of a "Smm cuture dish. Experiments were performed in spider saline: (in mMi/223 NaCI, 6 RKCI, 8 CaCI, 5, 1 MgCI, 1 of 144EFSE, plrt 8).

petroleum jelly to oeters se sevy capacianne. Lensons constants of 1-5 jar. Switching frequencies were 20:23 lifez and duty cycle 1:8 for current constants of 1-5 jar. Switching frequencies were 20:23 lifez and duty cycle 1:8 for current constants of 1-5 jar. Switching frequency constants of 1-5 jar. Switching frequency constants of 1-5 jar. Switching frequency asymptote by 2001-fr. Each input loves sampled at 50 kit by an independent 1:2 lite analysis-dedigital constants of 1-5 jar. Switching frequency asymptote by 2001-fr. Each input love sampled at 50 kit by an independent 1:2 lite analysis dedigital constants of 1-5 jar. Switching frequency sampled by 2001-fr. Each input love frequency constants of 1-5 jar. Switching frequency con

