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**Title:** Analysis of frog neuromuscular function at

hyperbaric pressures

**Authors:** Athey, GR

Akers, TK

**Keywords:** animal

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**Issue Date:** 1978

Citation: Undersea Biomed Res. 1978 Jun;5(2):199-208.

**Abstract:** Nerve and muscle compound action potentials were

measured in the frog sciatic nerve-gastrocnemius muscle preparation in a hyperbaric helium-air environment. Helium pressure to 69 ATA induced a reversible depression in muscle compound action

potential amplitude without significantly affecting other parameters. Blockade other parameters.

Blockade induced by tetraethylammonium while at

pressure could be partially reversed by decompression. A desensitization-type of

neuromuscular block produced at pressure after neostigmine infusion could also be partially reversed by decompression. These results suggest a possible involvement of the acetylcholine receptor complex in

pressure-induced depression of synaptic

transmission.

**Description:** Undersea and Hyperbaric Medical Society, Inc.

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