

Changes in the Neuromuscular Junction with Aging

STRUCTURAL CHANGES

FUNCTIONAL CHANGES (Mechanical properties)

- **Remodeling endplate morphology**

- ✓ Nerve terminal
- ✓ Postsynaptic folds
- ✓ Synaptic vesicles
- ✓ Neurotransmitters
- ✓ Mitochondria in the plaque region
- ✓ Satellite cell proliferation

-  ✓ Fusion events in mitochondria
-  ✓ Quantal content

- **Excitation-contraction uncoupling (less efficient contraction)**
- **Impairment activation of muscle agonists**
- **Uncoupling of RyRs to the voltage-sensing DHRPs**
-  ✓ Repair capacity by Schwann cells
-  ✓ Capacity motoneuron to re-innervate
-  ✓ Motor neuron sprouting capacity
-  ✓ Calcium released
-  ✓ AChR dispersion

Age Changes In The Neuromuscular System

Judd E. Hollander



Age Changes In The Neuromuscular System:

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