5-18-83

Molecules Localized to the Neuromuscular Synapse

1. AChR
2. AChE $HS_{\delta}16S$

Burden

3. Monoclonal AB #1 — Synapse Specific AB. Denervation results in spread of antigen

4 " AB #2 — Antigen destroyed by Collagenase. Stains Synapse, along muscle periphery, Blood Vessels, & nerve terminals

5. " AB #3 — Stains best at periphery of Synapse. No stain at synaptic cleft. Antigen persists after denervation. Also stains Frog Cardiac ganglion Synapse

6. Monoclonal Pierces AB at Intermediate Filaments — Stains all types of Intermediate Filaments. Stains abundant antigen at NM synapse & Muscle cytoplasm (Desmin+ Vimentin+). Synaptic antigen is different, relatively Rudimentary

7. Large Monoclonal AB to Tonofilaments — Stains NM Synapse+. Does not stain Muscle Cytoplasm, Nerve or Schwann cell. Antigen Persists at Synapses after Denervation, but appears at lower conc. in extrajunctional regions. ie, Probable role in Synapse formation or Stabilization

8) Rabbit antibody to 43K Protein

Bayne Gardner & Fambrough

10) Monoclonal AB#33 Binds to Basal Laminar Antigen that cardiotrophicate with AChRecep & patches ~~[illegible]~~ receptors

Same

11) Dolichos biflorus Lectin Specific for the NM Synapses

Specific for ~~[illegible]~~ N-Acetyl Galactosamine residues in glycolipids & glycopiderins & glycosamino glycans

~~[illegible]~~ Specific for Synaptic Cleft & junctional folds Not at extrasynaptic sites

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