

11/13/07

Questions for today

1) What neuron associated with muscle growth?

1) Nerve-Muscle growth

1) ~~Factor~~ Electrical stim. of denervated muscle prevents atrophy of muscle, means that neuron does not secrete factor needed for muscle growth. Neg. exp. also 2 interpreted

- 1) Neg.
- 2) artifact.

2) Ext to do. Muscle in tissue culture (or denervated muscle). Not extend (or membrane of muscle) ~~will~~ stop nerve regeneration. If 1 works, purify factor; get nerve regrowth (or embryonic growth) in tissue culture. Cont. electrical stim. with factor so that neurons not migrate to other ~~of~~ electrodes

3) Factors that innervation of muscle results in:

- 1) No innervation by other neurons
- 2) Localized sensitivity to ACholine
- 3) Growth of muscle membrane - RNA exp. means that muscle is changed by innervation.

Critical Question: Cut nerve ~~stim~~ muscle electrical activity?

- 1) ~~Does~~ muscle adapt to innervation?
- 2) " " " " " " ACholine or not? localized sites

* 4) How many sites on muscle cell can be innervated? Maybe 1 site. If 2 or more sites, then some sites involved or not.

5) Antibody to (1) muscle cells in vitro
(2) denervated muscle cells in vivo
(3) innervated " " " "

1) Absorb Ab⁽¹²⁾ against (3). Test to see if Ab^{11 or 12} prevents innervation of muscle.

Major Questions

1) # of sites on muscle cell which potentially can be innervated. (Also on innervated muscle cell.)

2/

1) Does ~~of all components~~ Curare block innervation? Mudd-Neuroinhibitor?

2) Any component prevents Mudd-Neuron interaction?

* (2)

Identify muscle component which interacts with neuron
Identify order " " " " " " " " " " " "
Identify neuron component " " " " " " " " " " " "
" Component " " " " " " " " " " " "
or Agents which selected block 2 out of 3
2) Will new component, electron shell, + AC Ab, or combination of 3 regulate muscle protein syn. in absence of neuron. Is something else needed?

3) will make component ~~of~~ effect protein syn
etc. in ~~different~~ ^{recovery?} to regen. etc.
(a) individual synapse ~~function~~.

4) Maximum # of sites on neuron which
can innervate muscle cells.

- 1) Regen. neuron.
- 2) Nerve → Muscle.
- 3) Embryonic neuron.

3) Does electrical (or ^{better} neural) stimulus of
innervated ~~regeneration~~ ^{regeneration}
neuron ~~induce~~ ^{induce} neuron protein syn.

This question focuses on cell-cell interaction (code?)
on ~~at~~ ^{function} neuron, codes. Answers may lead
to complex systems to get codes.

Question: 1) + Nerve growth factor, set synapses?
2) Does " " " inhibit " ?
3) Do Juncos ^{all} innervate?

- 2) Sensitizing muscle in terms of
- 1) Acids
 - 2) Inorganic
 - 3) Effect electric shock

~~Does~~ Collagen requires for differentiation of
 muscle cell (growth?)
 Neuron - ~~stimulated~~ ^{understand} muscle (growth) ^{effect}

Effect of collagen on neuron regeneration?
 " " " " " Resonance in