

7.72 Study Questions: Cell type patterning papers

10.16.06

1. What was the biological question addressed in this paper?
2. What are glial cells?
3. What signaling pathway is discussed in today's paper?

Ligand

Receptor

Response gene(s)

Signaling modulator(s)

4. What similarities are clear when considering generation of neural (and glial) precursors in vertebrates and Drosophila?

Do you know whether the mechanisms underlying these similarities are evolutionarily conserved? YES/NO

If you said YES, how do you know?

If you said NO, how would you find out?

5. Techniques
 - a. Immunohistochemistry

What is this?

List the technical steps.

What positive and negative controls would you use?

- b. Confocal microscopy

What is this?