

1. What hypotheses are addressed in the Nordstrom et al paper?
2. What is a Hox gene?

What is the relationship of Cdx genes to Hox genes?

What is the relationship between Hox gene expression patterns and their chromosomal locations?

3. What is another term for “rostrocaudal”?
4. What does the term “progenitor” mean?
5. What are dMNs? VMNs?
6. What is shh-N? Why was this used in this study?
7. The major approach used here was an explant one. What techniques would you have used to perform an analogous study in mice?

Do you think chick or mouse is a better system for this study? Why?

How about zebrafish versus chick?

8. What conclusions were drawn? Did you agree with these conclusions? Why?