

1. What were the biological questions addressed in these papers?

2. What is convergent extension?

Does this process involve an epithelium, mesenchyme or both? Explain.

During what events during development does convergent extension occur?

3. What are explant assays? Why are they useful?

What is an animal cap assay? For what was it used in these papers?

What is a Keller sandwich? For what was it used?

4. What is a “neural plate graft”?

This graft is a transplant assay. Why are such assays useful?

How would you choose whether to use an explant or a transplant approach?

5. What is the canonical wnt pathway?

What is the non-canonical Wnt pathway?

What is the PCP pathway?

6. What conclusions were drawn? Did you have any issue with these conclusions? Why?