Measuring DV and AP border lengths

Stage 5

Stage 7

AP borders extend along DV axis of embryo

Calculating apical cell area

0-30°

60-90°

DV borders extend along AP axis of embryo
A. Cell Border Lengths at end of cellularization (stage 5)

- WT
- cno^{MZ}
- arm^{MZ}
- DMSO
- cytoD

- AP borders = Cell length along DV axis
- DV borders = Cell length along AP axis

B. Cell Border Lengths during early GBE (stage 7)

- WT
- cno^{MZ}
- arm^{MZ}
- DMSO
- cytoD

- AP borders = Cell length along DV axis
- DV borders = Cell length along AP axis

C. Apical Areas at end of cellularization

- WT
- cno^{MZ}
- arm^{MZ}
- DMSO
- cytoD

- apical areas (μm²)

D. Apical Areas during early GBE

- WT
- cno^{MZ}
- arm^{MZ}
- DMSO
- cytoD

- apical areas (μm²)

E. Diagrammatic representation of change in cell shape

- Anterior
- Dorsal
- Ventral
- Posterior

The diagram shows a change in cell shape from an anterior to a posterior position, indicating a shift in the cell's orientation and possibly its function or role within the tissue.
