T = -2 min

The final round of main nuclei mitosis

$T = 0 \min (A, B)$

Three independent invaginations start:

- 1. On each side of the embryo, a slit starts forming. These will merge and become the cephalic furrow, separating the body from the head.
- 2. On the bottom (ventral) side, a rectangle of cells contrant, beginning the formation of the ventral furrow
- A 10-cell radius ring on the back (posterior) tip starts apical constriction. This will later invinate, forming the posterior midgut (PMG)

$T = 2 \min - 3 \min (C,D,E,F)$

- The ventral furrow closes off completely in the middle, creating a characteristic lightbulb shape.
- 2. The **germ-band** starts extending by convergent extension

$T = 8 \min (G)$

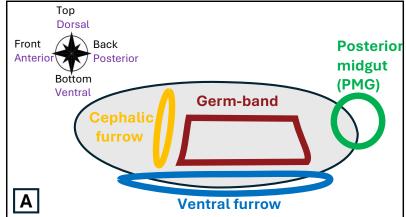
The **germ-band** has moved the still-closing end of the **ventral furrow** the towards the back (posterior), wrapping around towards the top (dorsal side)

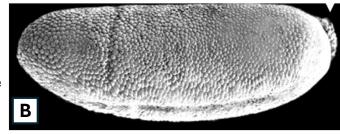
T = 10-12 min (H)

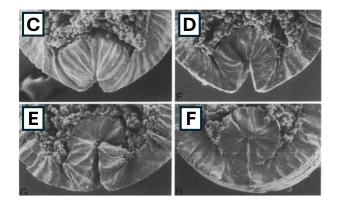
The **ventral furrow** merge with the invaginating **posterior midgut (PMG)**.

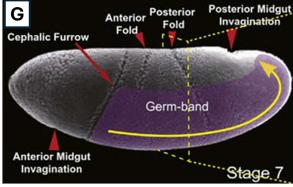
T = 15 min

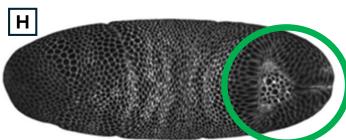
The **germ-band** stops elongating, with the basis for the most vital morphology finished, the cell differentiation begins











A1b

A1a

A2

A3