Gastrulation in the Xenopus Fate Map of the Blastula

1. How visualize complex blastomere movements
   - Fate map by vital dye staining

![Diagram showing glass to hold embryo and agar chips with dye](A)

Vital dye staining of amphibian embryos. (A) Vogt's method for marking specific cells of the embryo surface with vital dyes. (B-D) Surface views of stain on successively later embryos. (E) Newt embryo dissected in medial plane to show stained cells in the interior.

![Diagram showing dye stains on embryo and dorsal lip of blastopore](B)

![Diagram showing section plane of view](D)

2. Cells that make up embryo germ layers

- surface cells
  - ectoderm
  - endoderm

![Diagram showing epidermis, neural plate, supra-blastoporal endoderm, sub-blastoporal endoderm, and blastopore](A)

- subsurface cells
  - equitorial (marginal)
  - mesoderm

![Diagram showing lateral mesoderm, notocord, somites, and blastopore](B)

![Diagram showing section plane of view](E)