

Movie S1

Formation of ectopic somites generated from a graft of stage 5 posterior primitive streak from a transgenic-GFP donor embryo, soaked in Noggin and then grafted into the area opaca of a wild-type host chick embryo, surrounded by beads soaked in Noggin. Many ectopic somites form almost simultaneously around 10-11 hours after grafting.

Movie S2

Higher magnification view of the region of the graft (fluorescence channel only) from Supplementary Movie 1, showing almost simultaneous formation of ectopic somites.

Movie S3

Formation of somites in a normal embryo. Embryo placed in modified New culture at stage 4 and incubated for about 24 hours. At about 8.5 hours (stage 6-8), the first 3 pairs of occipital somites form almost simultaneously. Thereafter somites form sequentially, about one pair every 90 min.

Movie S4

Simulation of ectopic somite formation using CompuCell3D as described in Computational Methods.