

Polarized collective cell movements
drive antero-posterior folding to
form the avian hindgut

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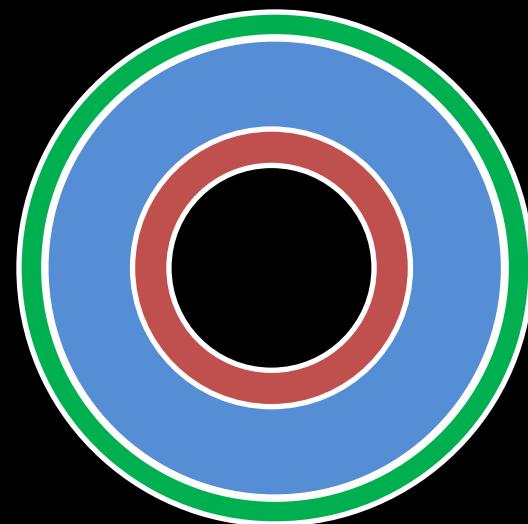
Tabin Lab

Morphogenesis of the gut tube

18 hours
(HH 4)



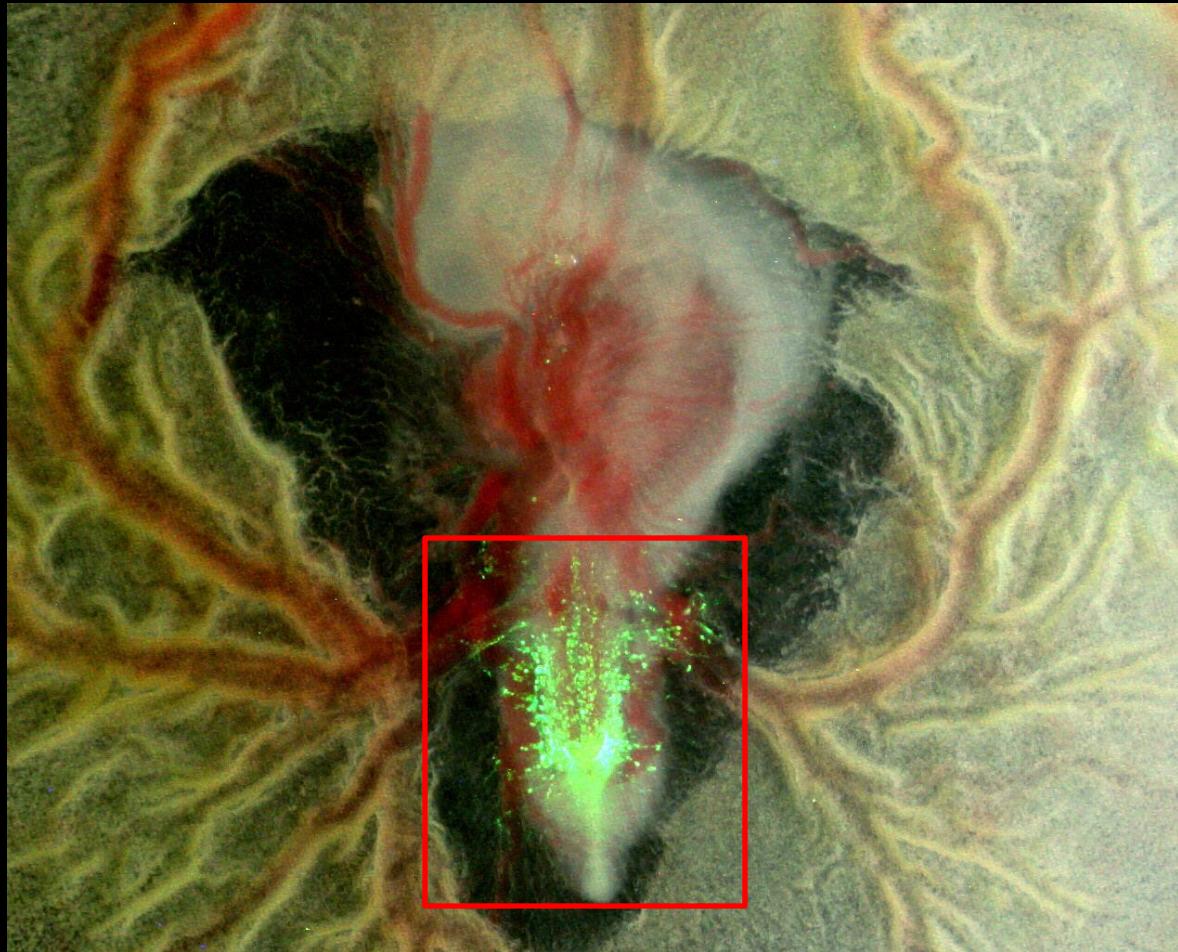
72 hours
(HH 20)



NEPA21 Electroporation parameters

- Poring pulse: 40V, 3 pulses, 0.1 ms duration, 50 ms pause, 10% decay (no polarity)
- Transfer pulse: 4V, 5 pulse, 5 ms duration, 50 ms pause, 40% decay (no polarity)
- DNA: 5ug/uL in 5% sucrose PBS
- Impedance ~0.5-0.55 kOhm
- **Viability 70-80%, Efficiency 50-70%**
- BTX830: Viability 3%, Efficiency 20-80%

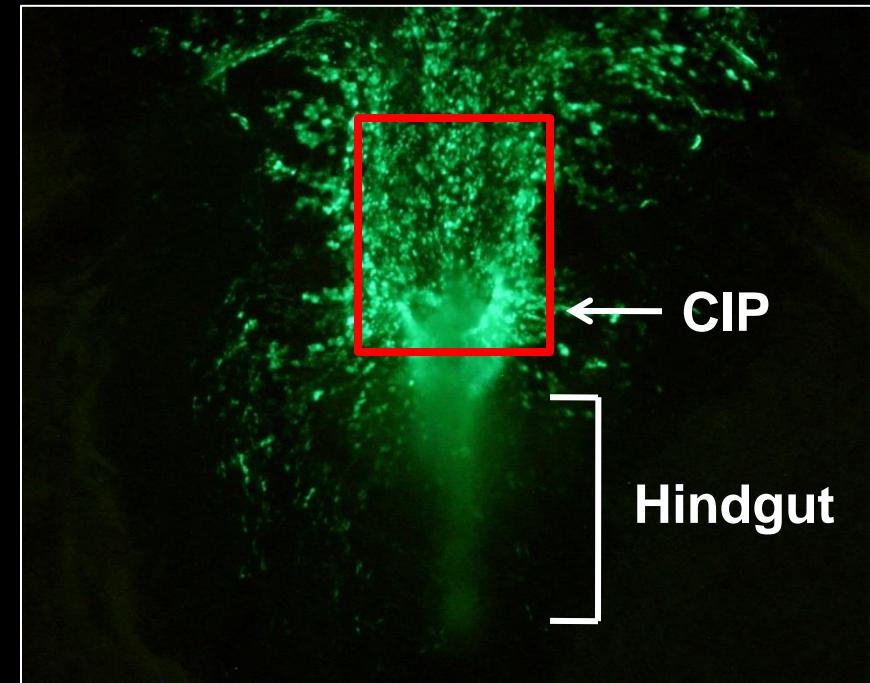
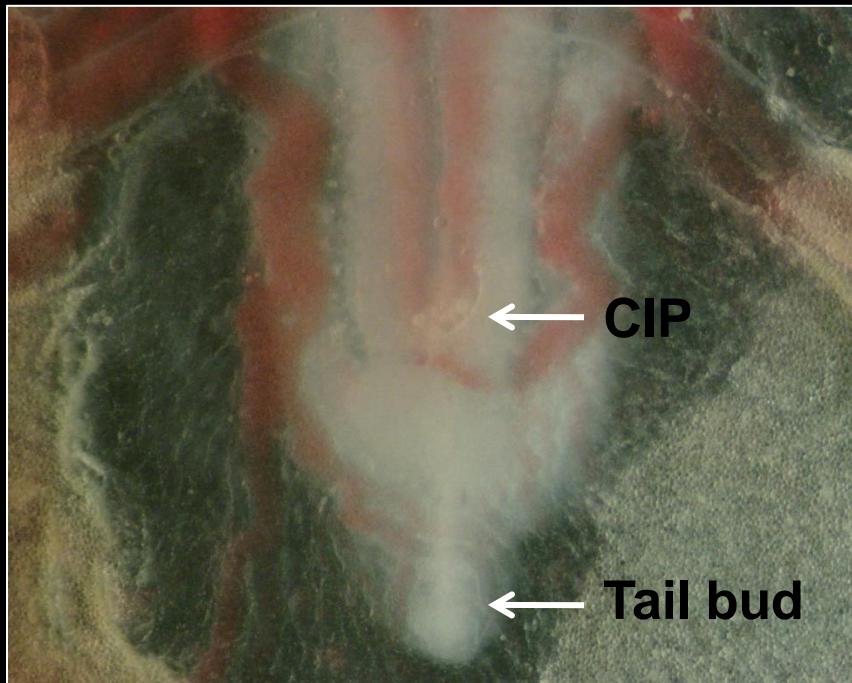
Electroporation of the chick endoderm



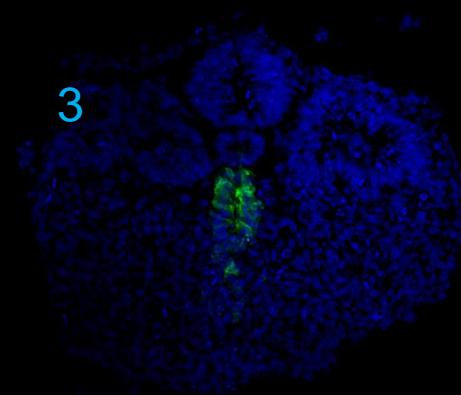
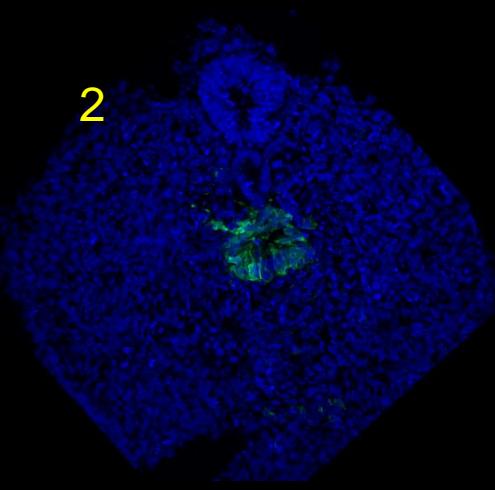
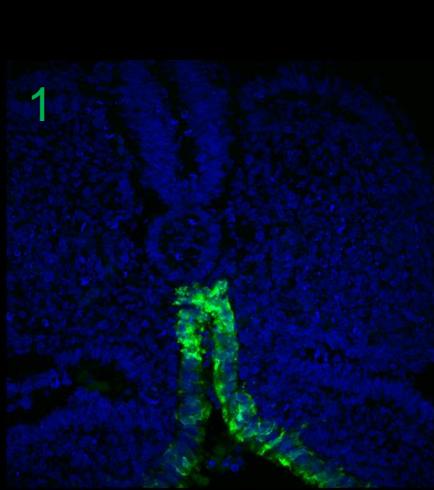
HH18 (72 hours)

pCAG-GFP

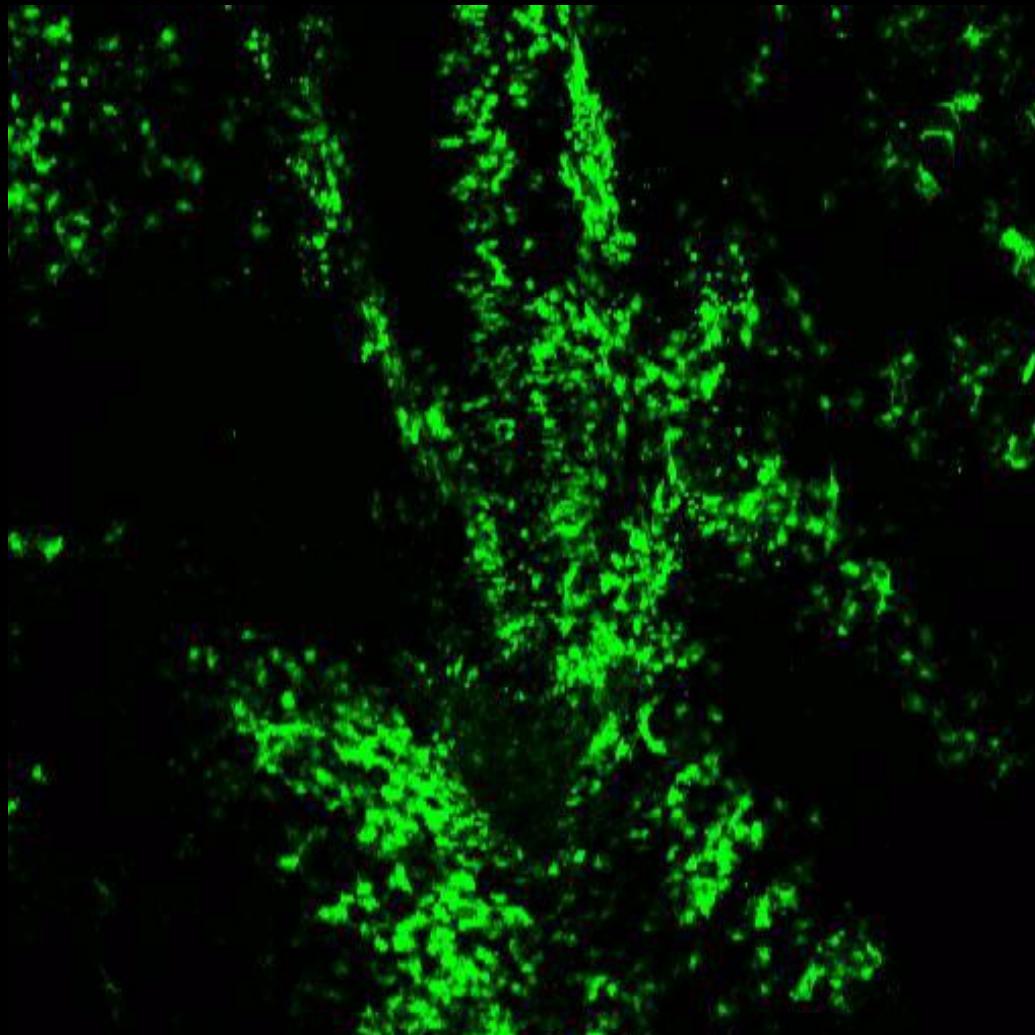
Electroporation of the chick endoderm



Cross sections through the hindgut following pCAG-GFP electroporation into the endoderm



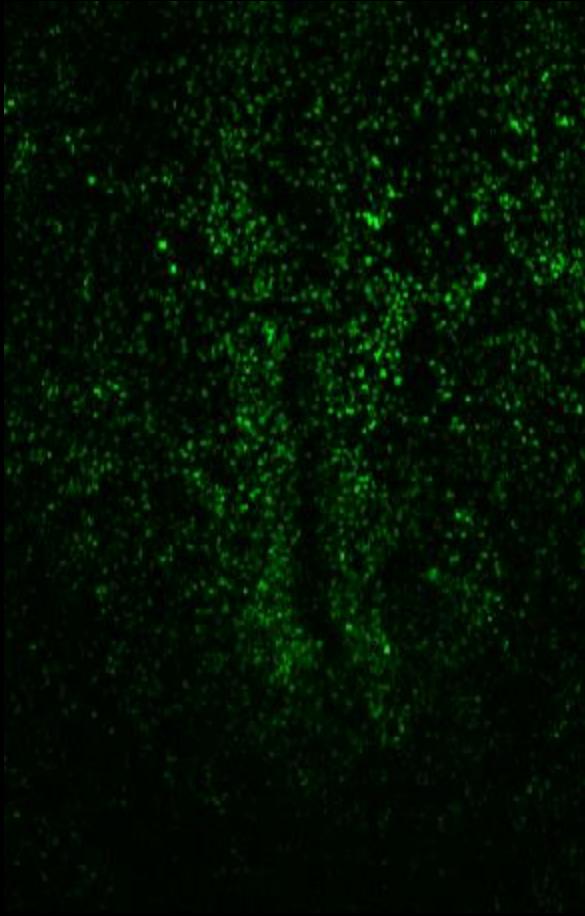
Cells flow posteriorly during hindgut formation



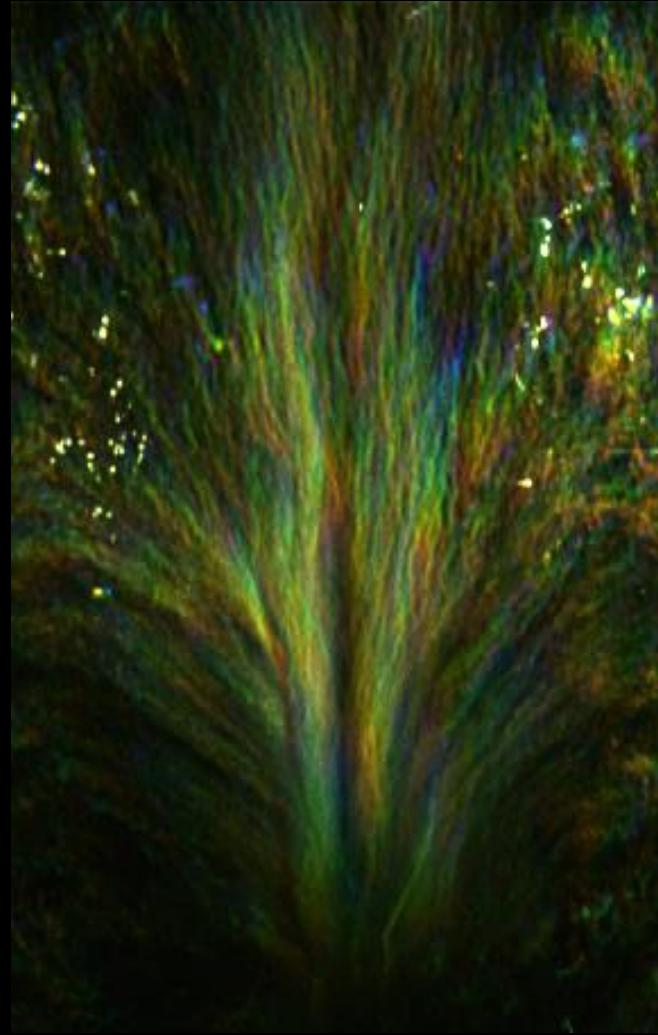
8 hr (HH14 to HH17)

pCAG-GFP

pCAG-H2B:GFP



8 hours (HH13-HH)14



time →

