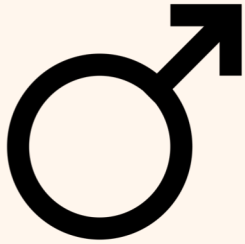


MRP Expression in Drosophila

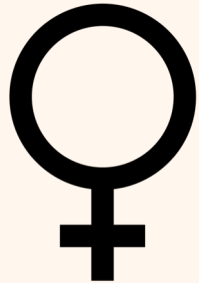
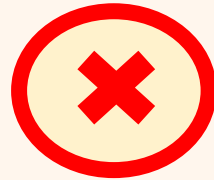


Ashwini Suriyaprakash, Chris Robinson
Research Intensives Program, UMass Amherst

Cross Genotypes



Males: $yw; MRP-T2A-gal4/+; +$

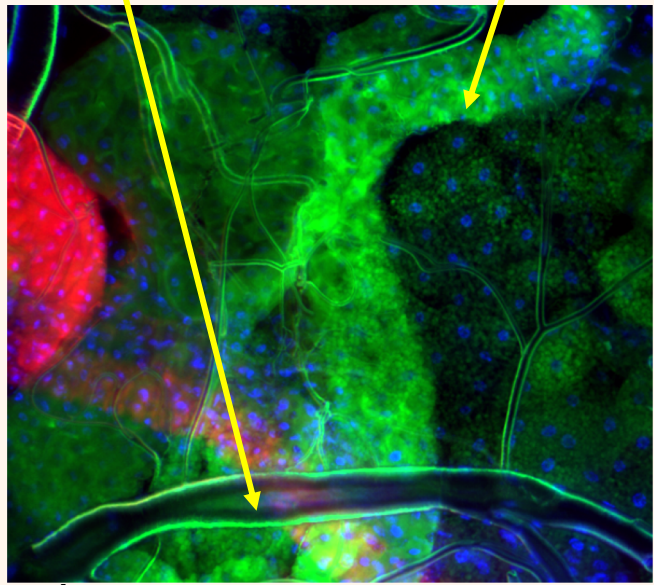


Virgin Females: $yw; UAS-gfp; +$

MRP-T2A-gal4 X UAS-gfp

Larval Guts

Malpighian tubules Midgut



Ashwini

Cell Nucleus Hindgut

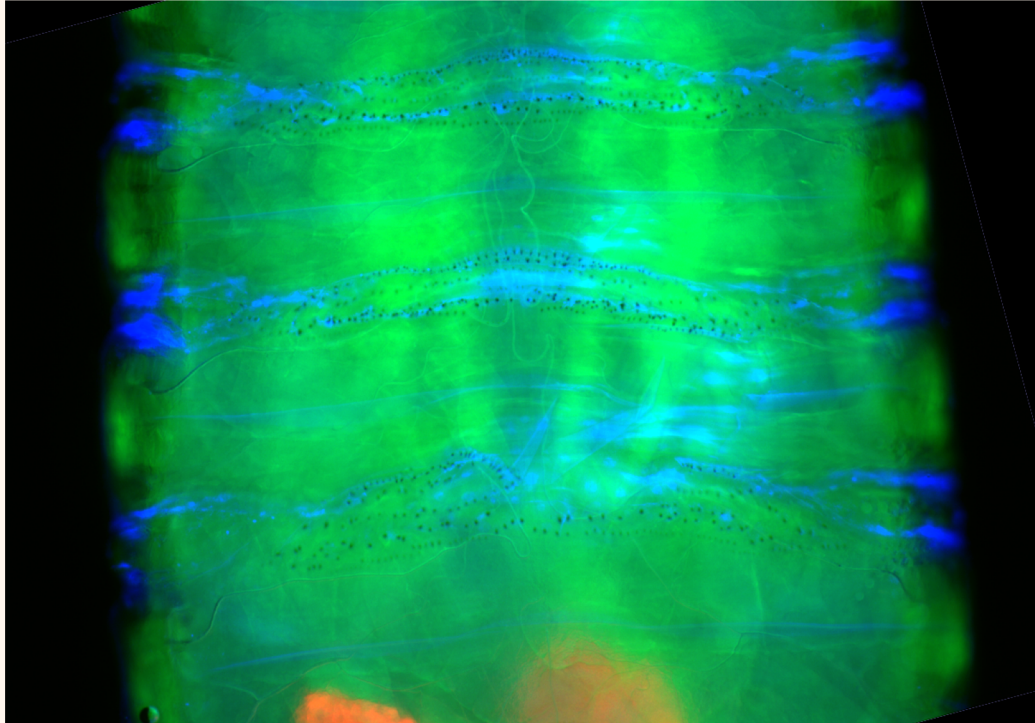


Chris

Malpighian Tubules

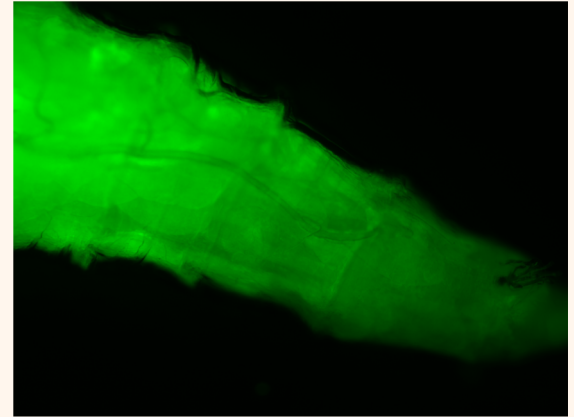
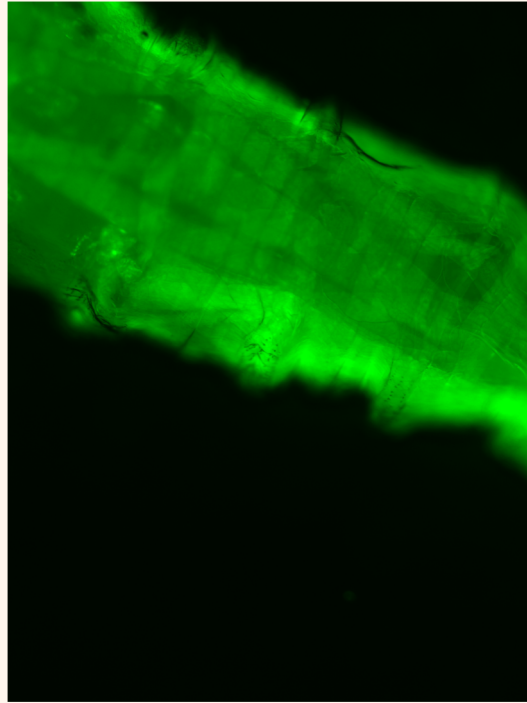
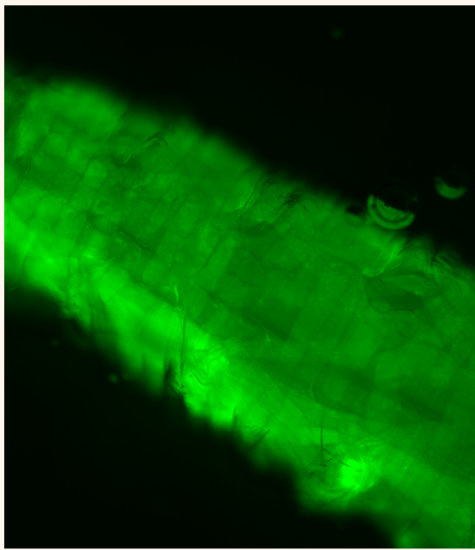
MRP-T2A-gal4 X UAS-gfp

Whole Larva #1



Ashwini

Whole Larva #2



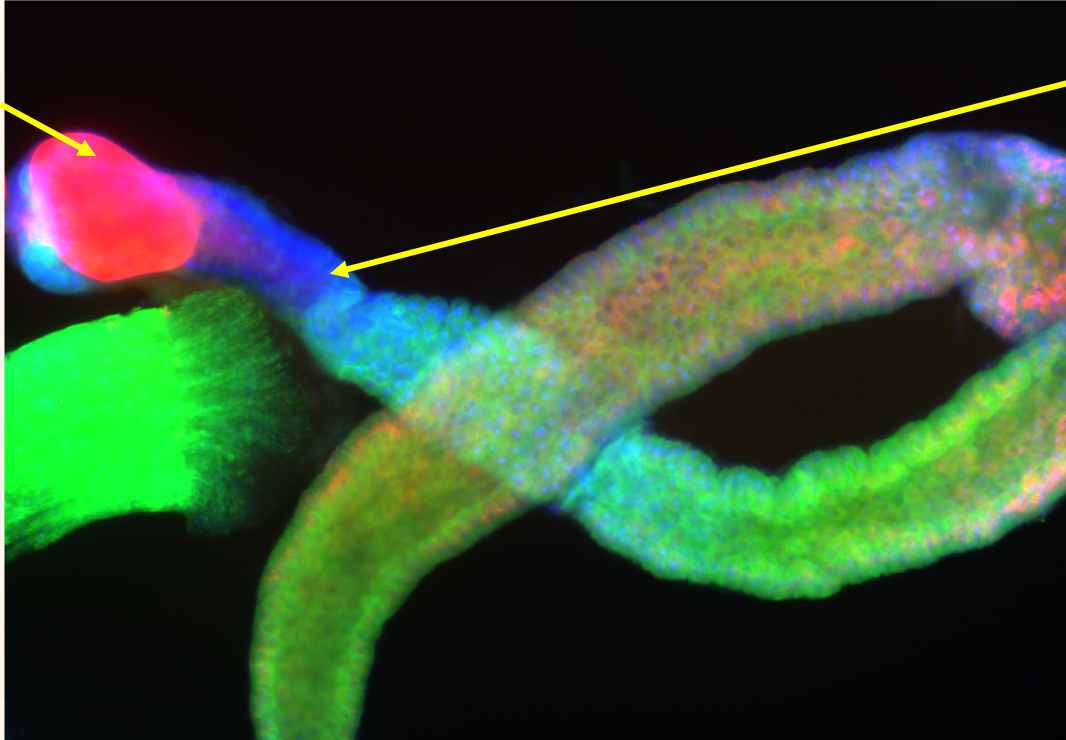
MRP-T2A-gal4 X UAS-gfp

Chris

MRP-T2A-gal4 X UAS-gfp

Adult Gut #1

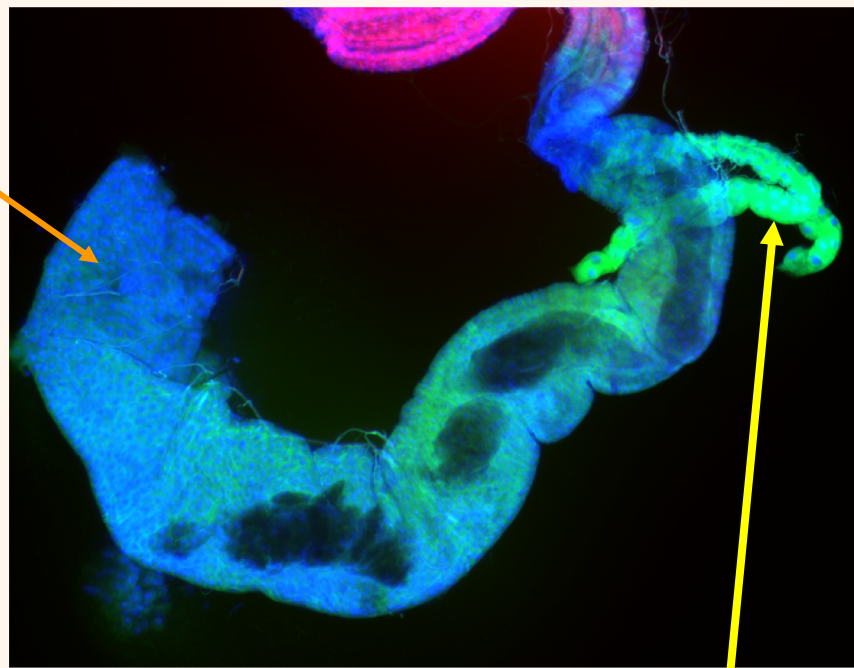
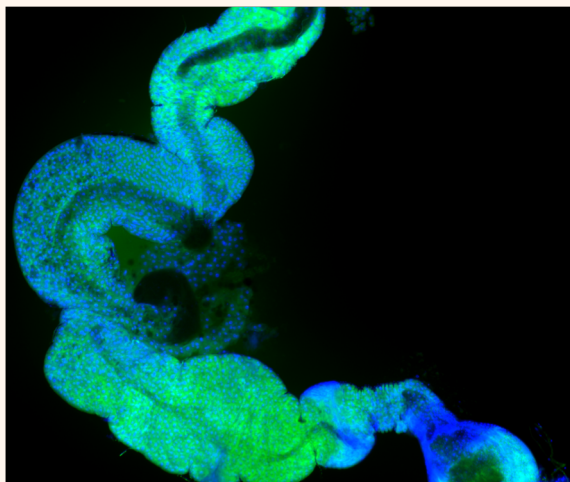
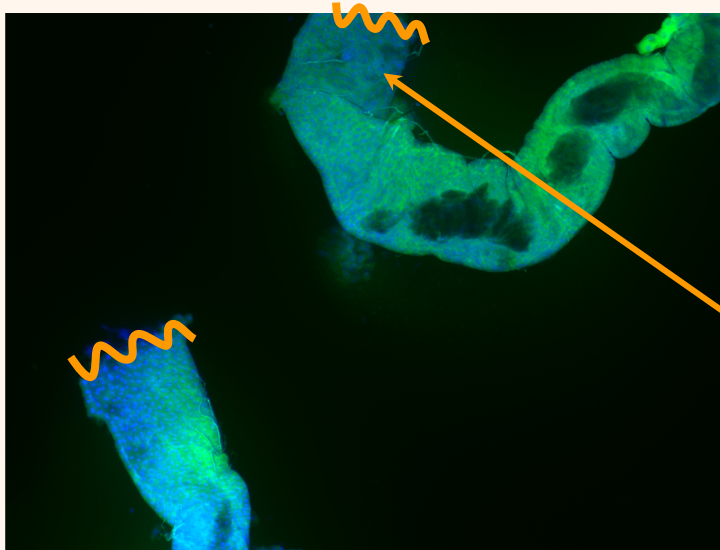
Cardia



Anterior midgut

Ashwini

Adult Gut #2



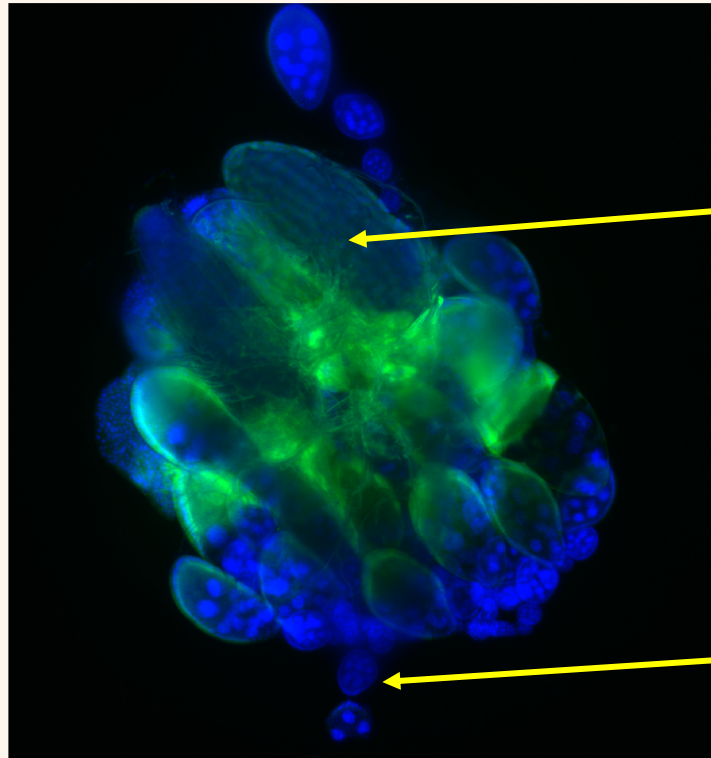
Chris

Malpighian Tubules

MRP-T2A-gal4 X *UAS-gfp*

MRP-T2A-gal4 X *UAS-gfp*

Adult Ovary



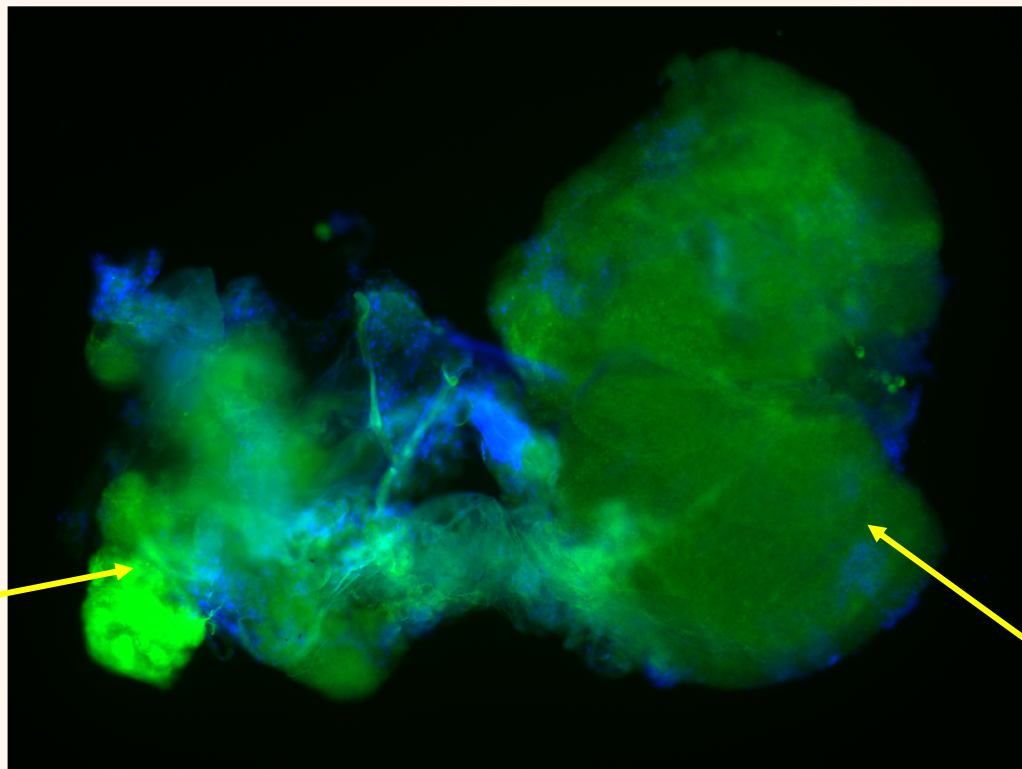
Egg

Lateral oviduct

Ashwini

MRP-T2A-gal4 X UAS-gfp

Adult Brain



Note: Right optic lobe is missing

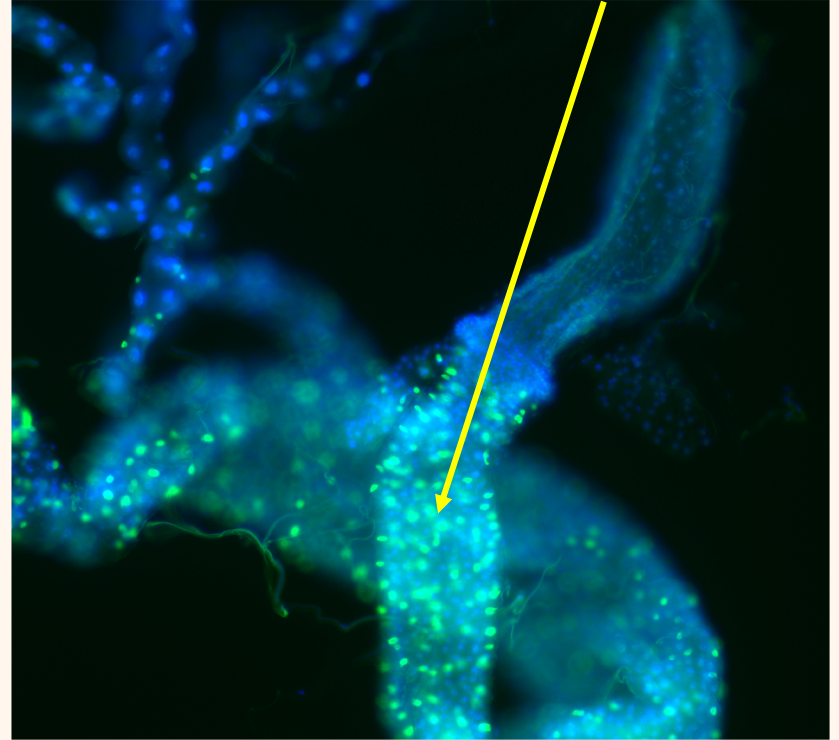
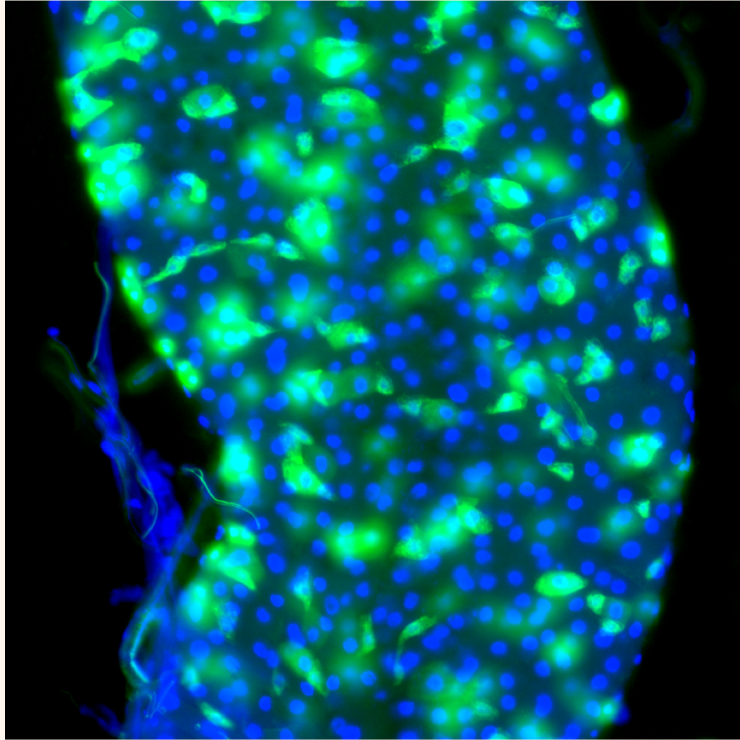
Left optic lobe

Central complex

Ashwini

EGT Gut (Control)

R5 Region



Ashwini