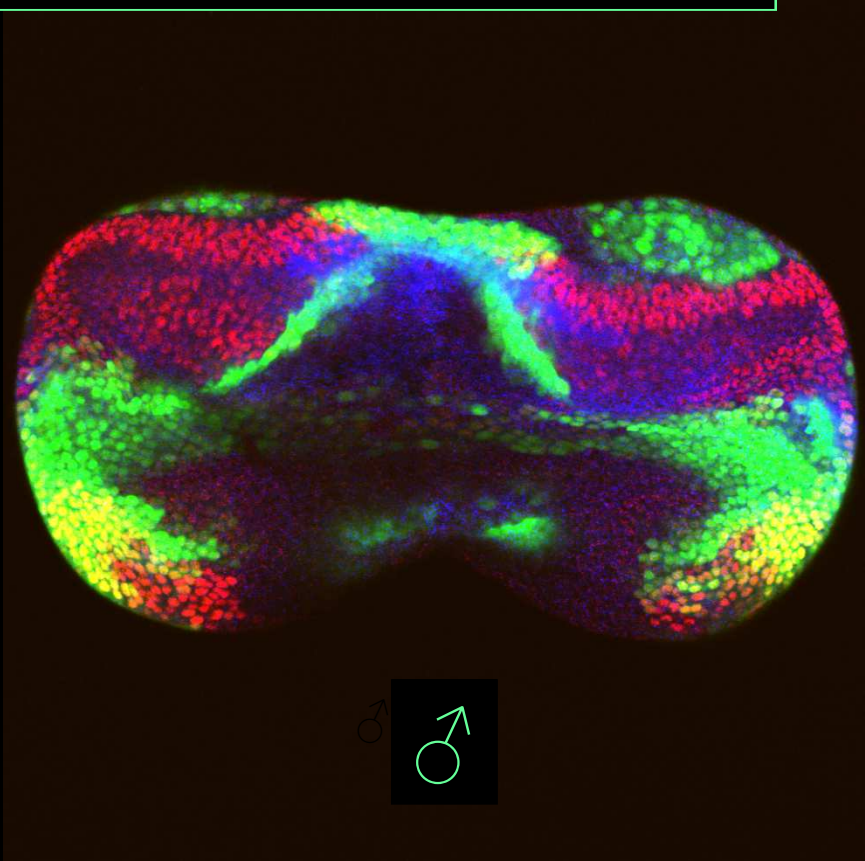
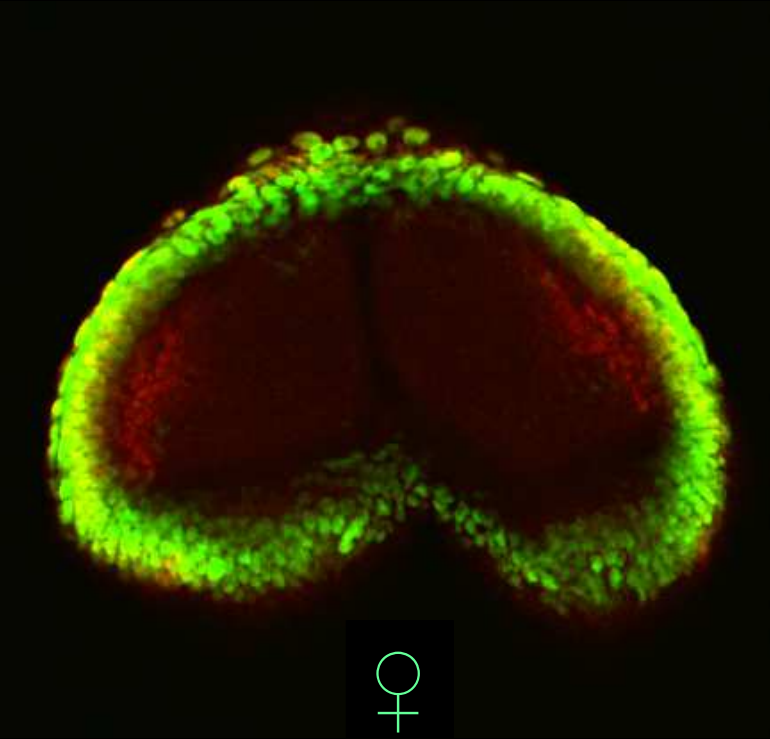
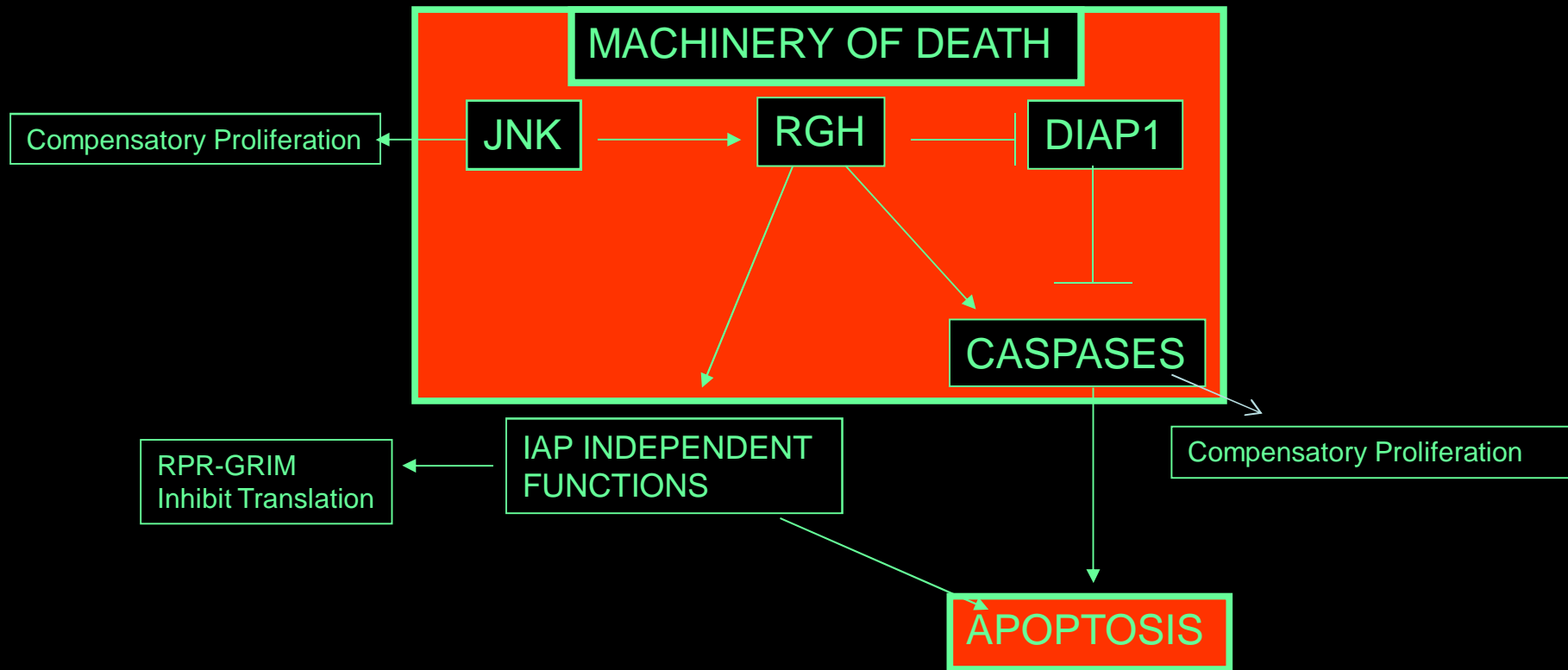




# ANALYSIS OF FACTORS AND MECHANISMS THAT CONTROL GROWTH IN THE GENITAL DISC OF DROSOPHILA



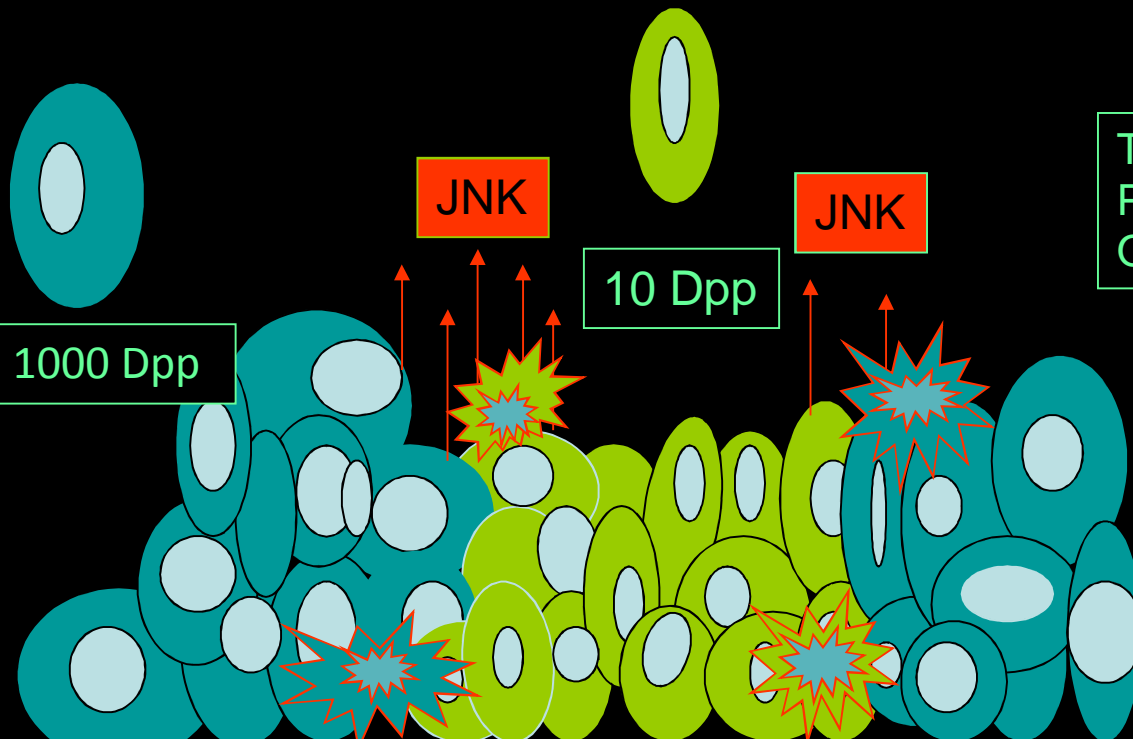
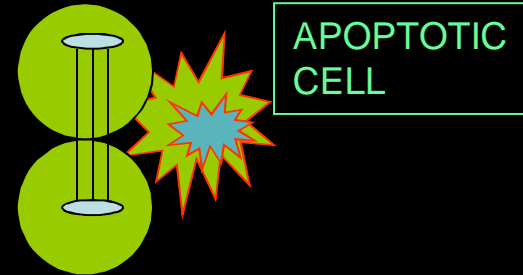
# AMONG THE FACTORS



AMONG THE MECHANISMS

COMPENSATORY PROLIFERATION

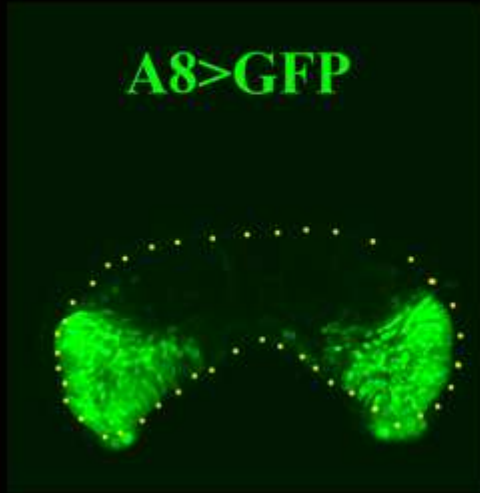
MORPHOGENETIC APOPTOSIS  
A SPECIAL TYPE OF CELL COMPETITION



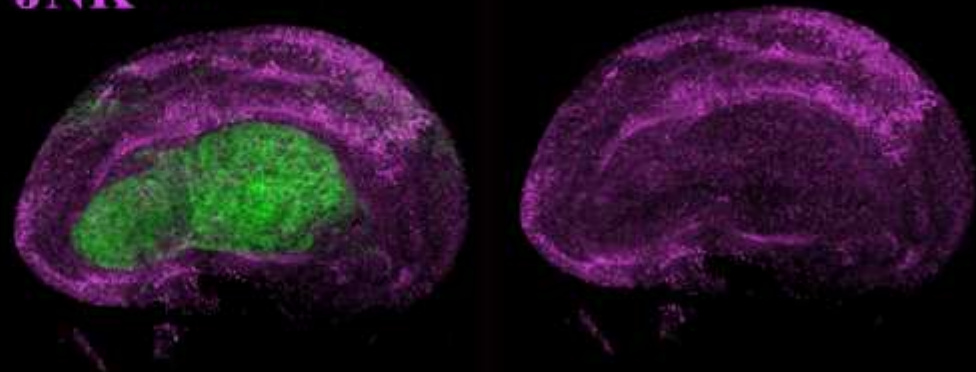
THERE ARE NO PROOFS OF THE  
PHYSIOLOGICAL EXISTENCE  
OF THESE MECHANISMS

# A8>DPP-GFP

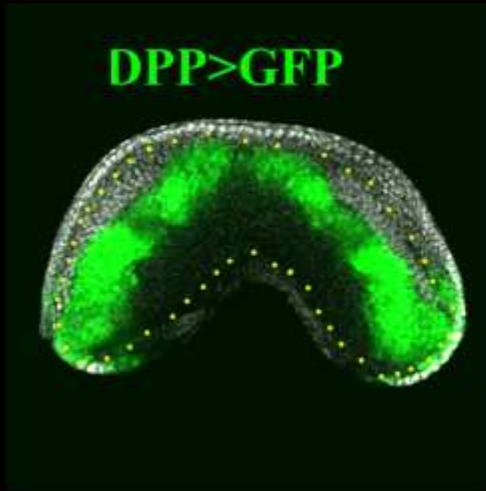
A8>GFP



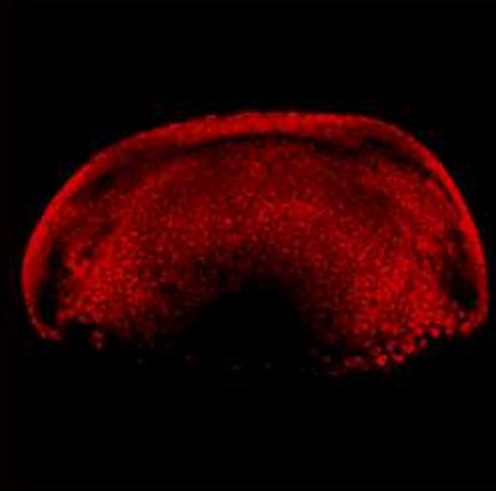
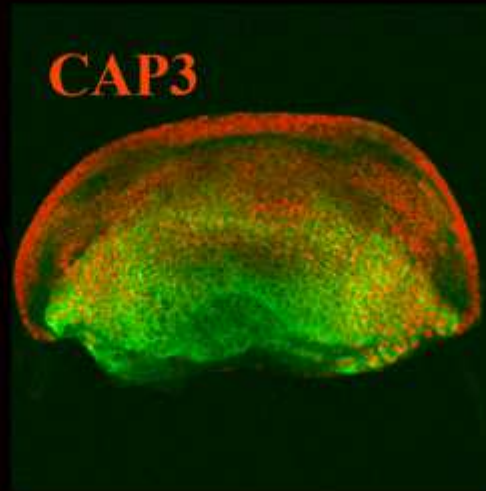
JNK<sup>REP</sup>



DPP>GFP

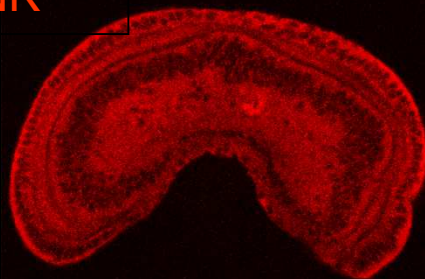
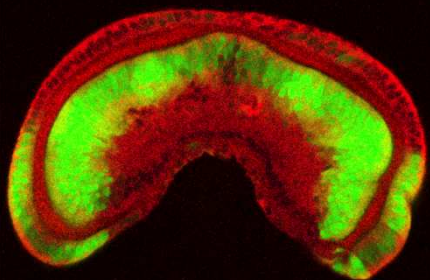


CAP3

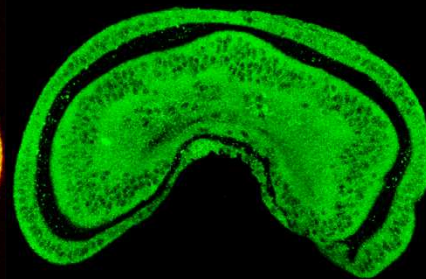
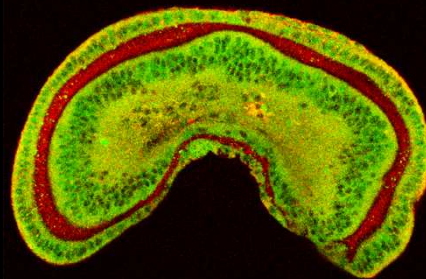




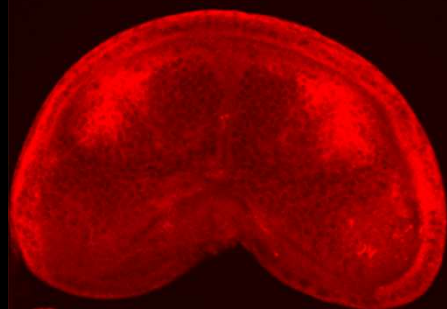
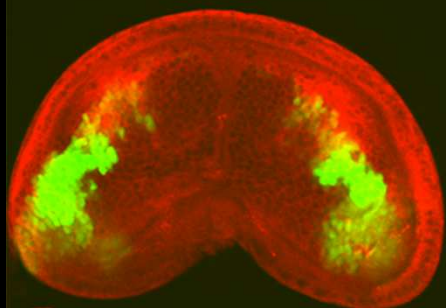
DPP JNK<sup>REP</sup>



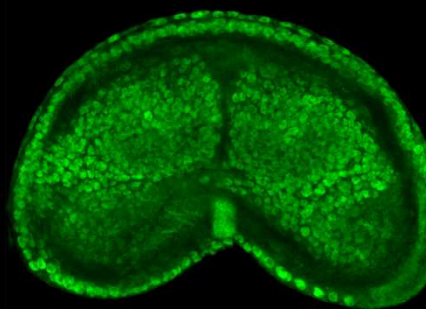
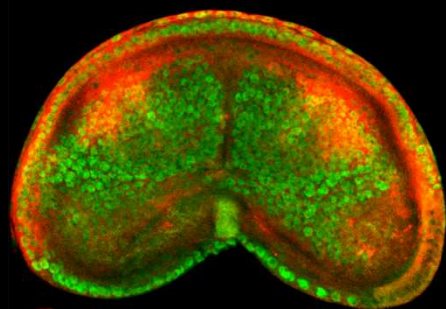
JNK<sup>REP</sup> CAP3



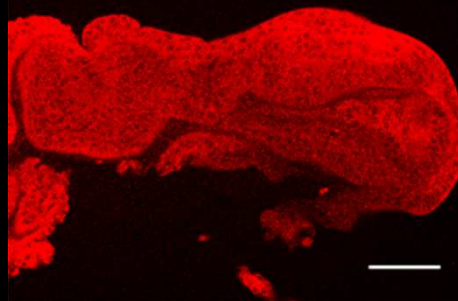
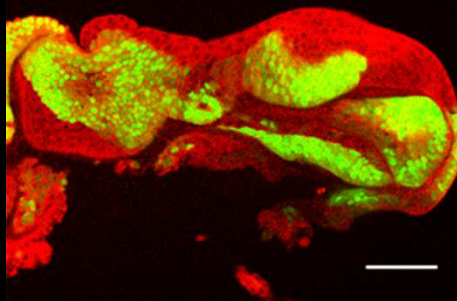
DPP RPR-Z



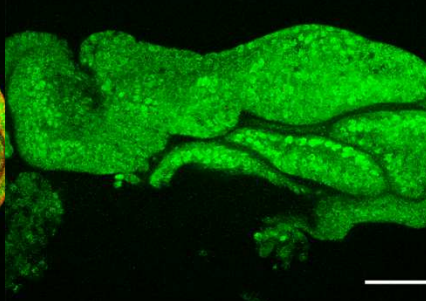
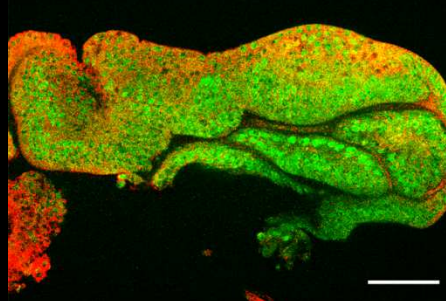
RPR-Z CAP3



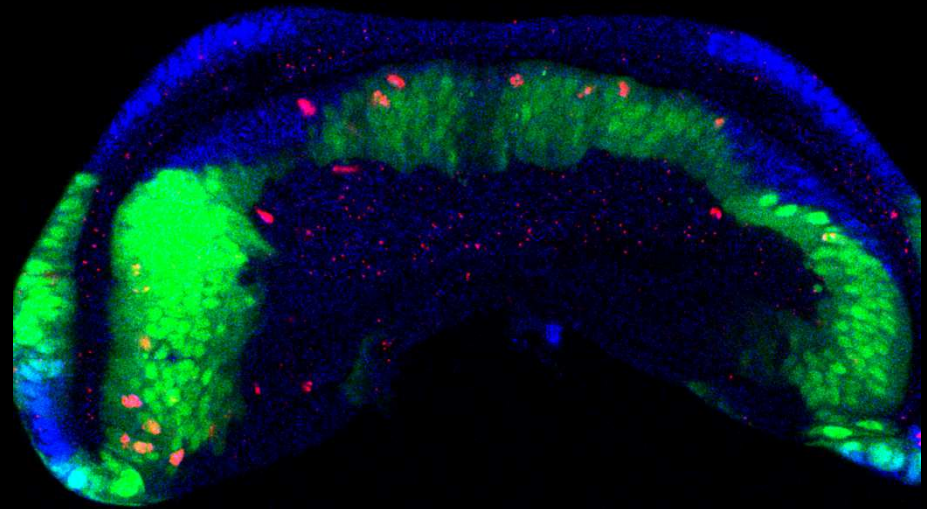
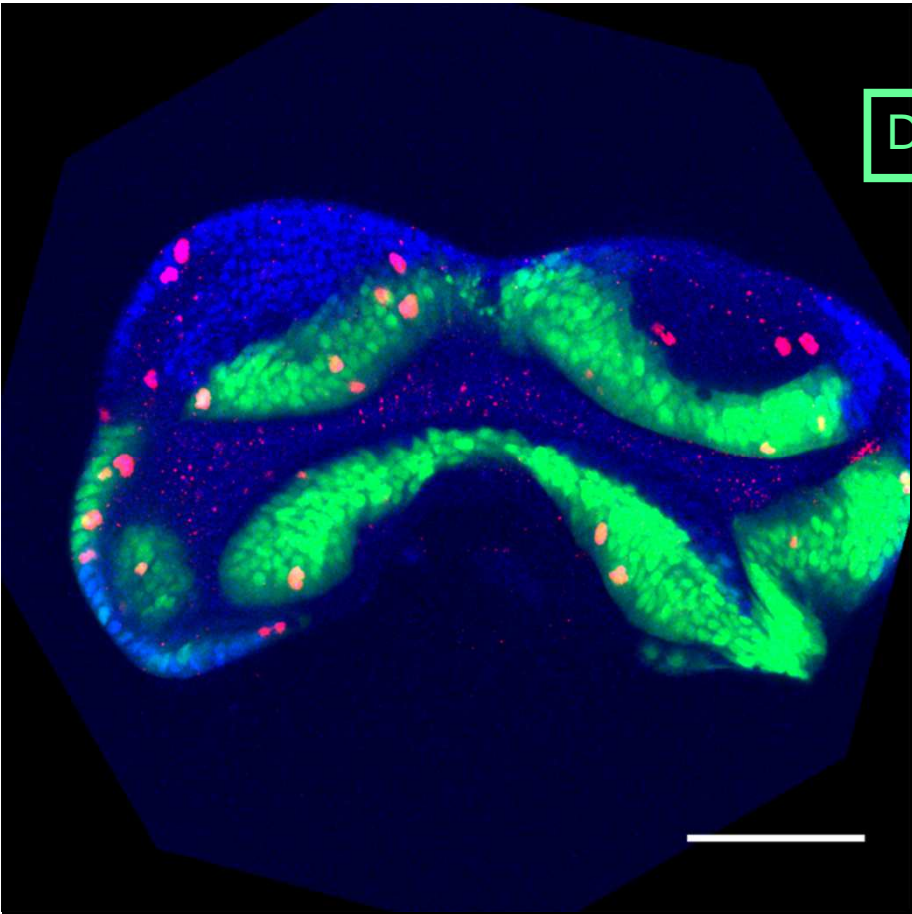
DPP HID-Z



HID-Z CAP3

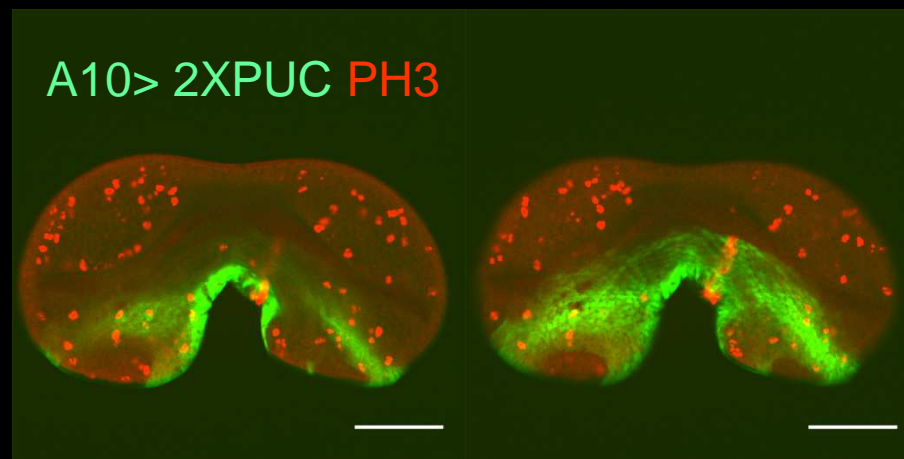
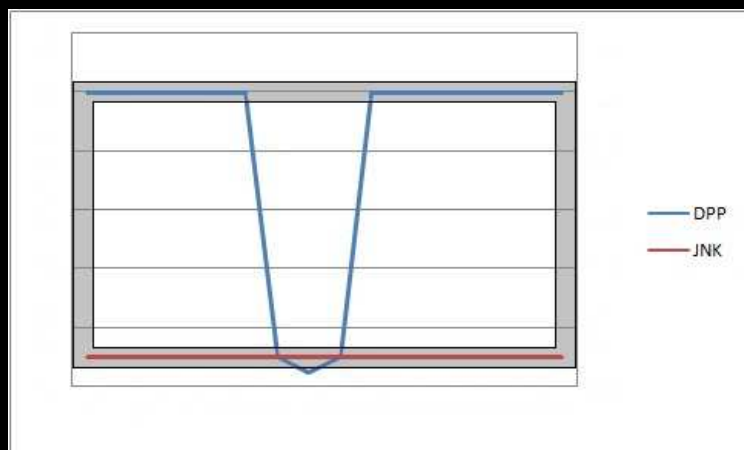
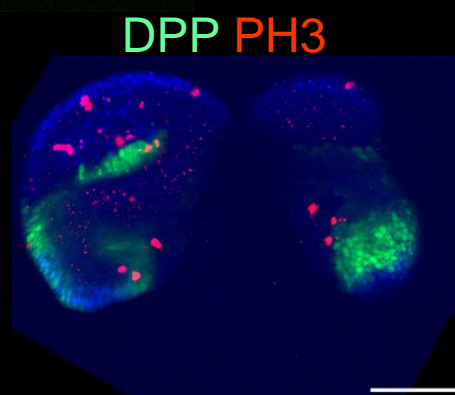
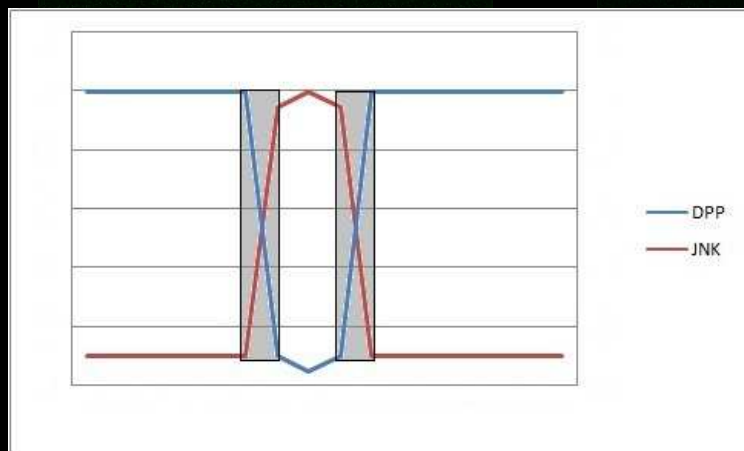
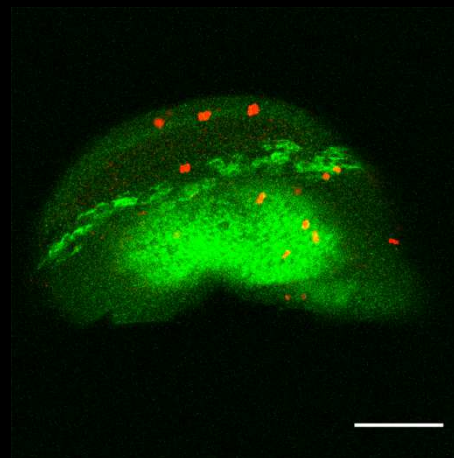
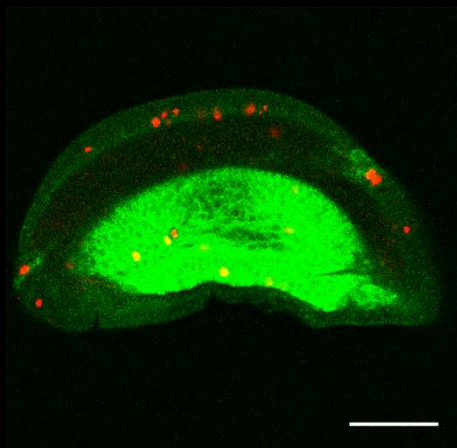
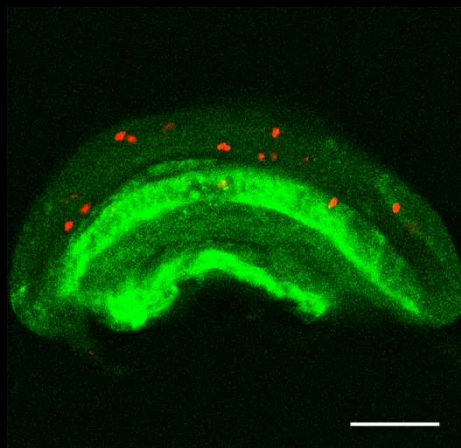


Dpp>GFP PH3 EN

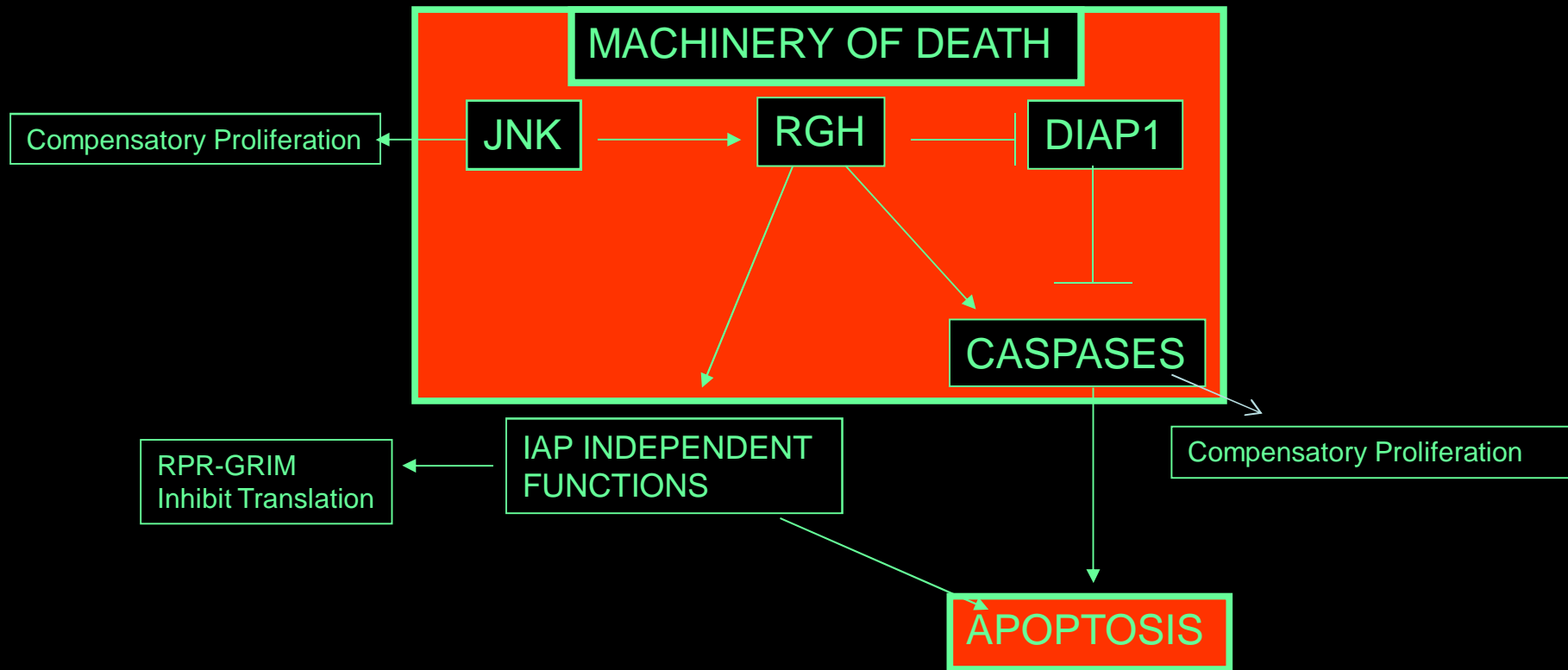




A8>DPP-GFP PH3

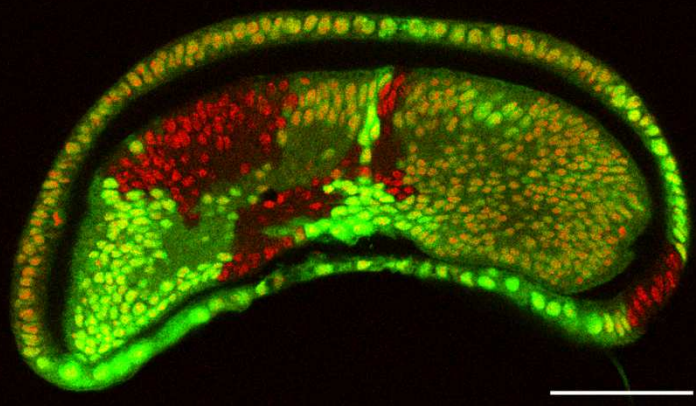


# AMONG THE FACTORS

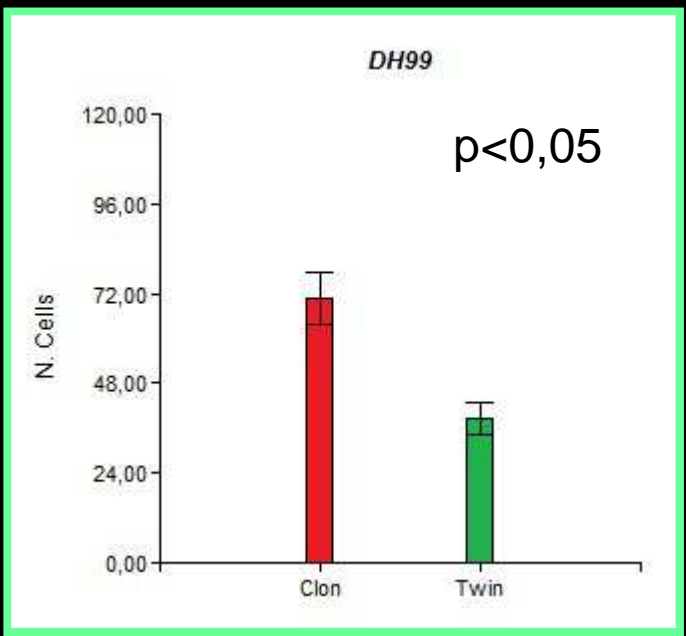
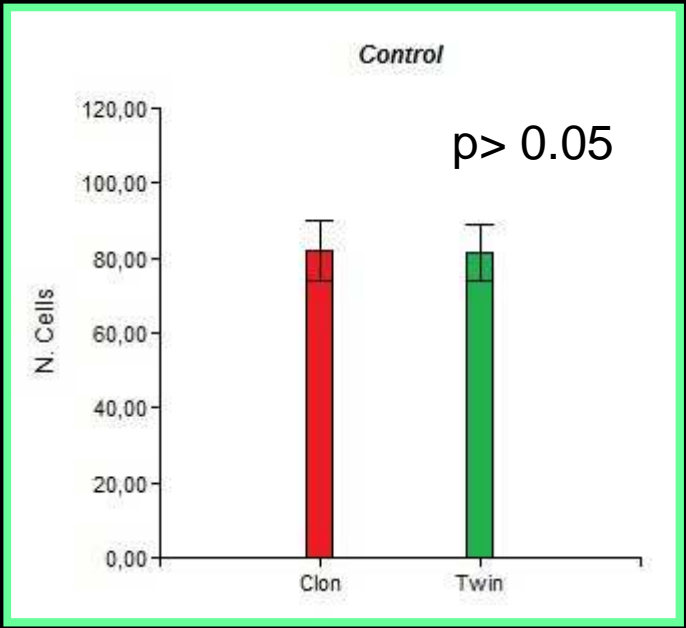
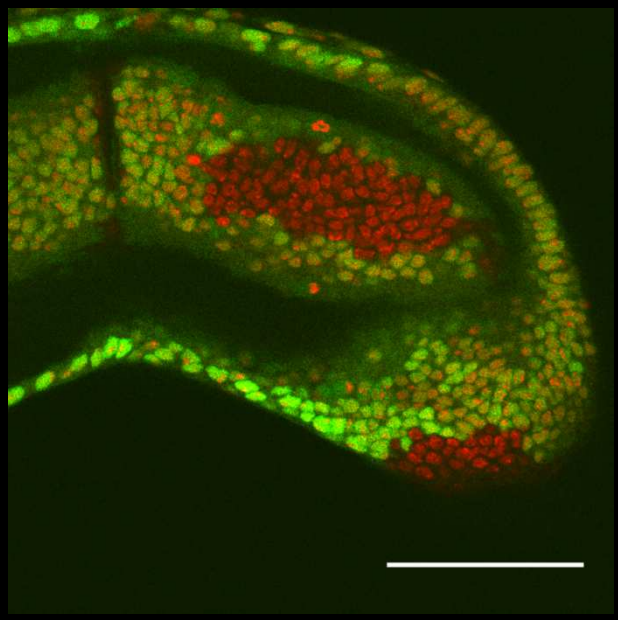




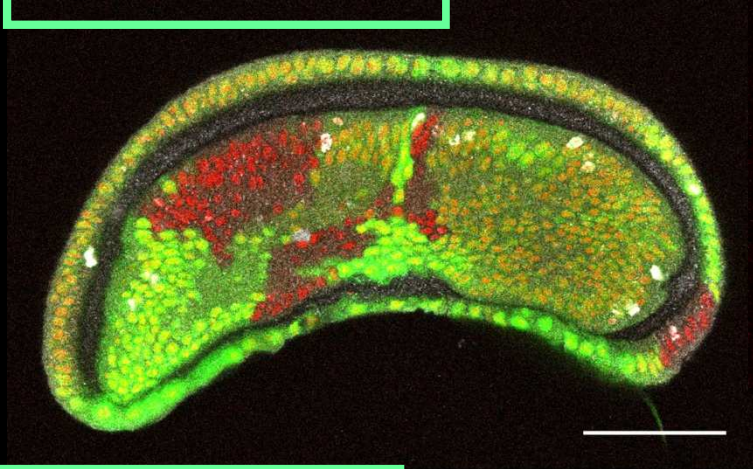
# Control CLONES



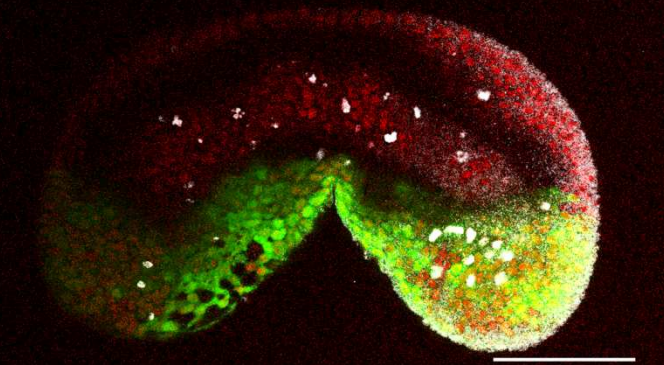
# CLONES DFH99



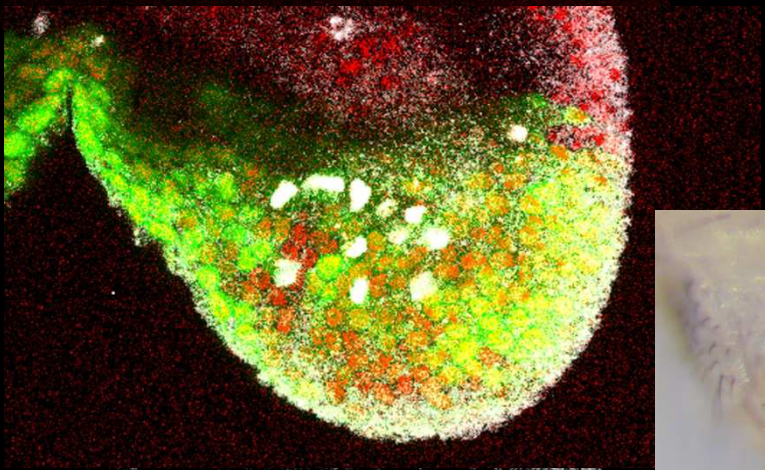
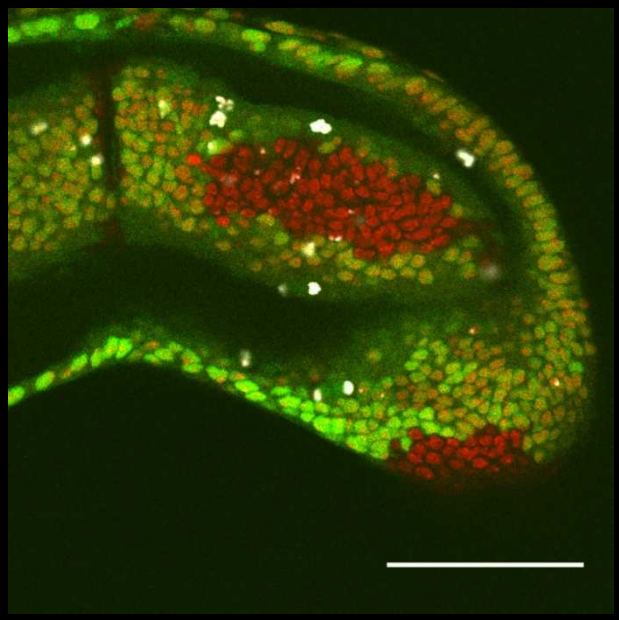
Control CLONES



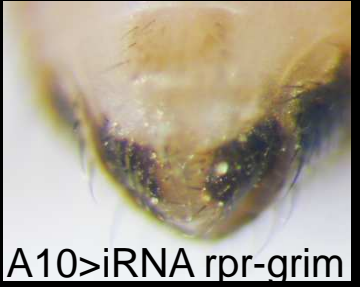
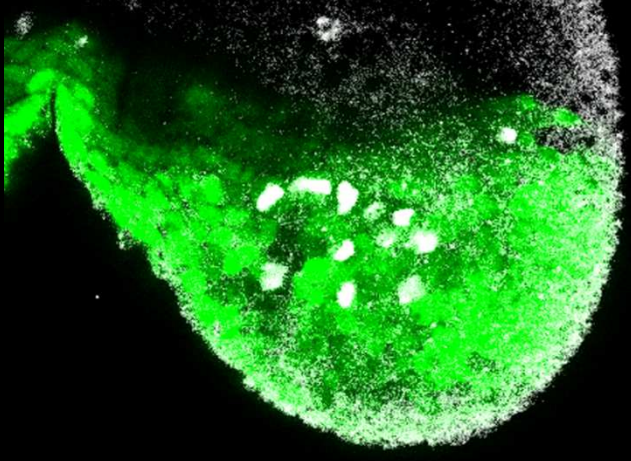
A10 > rpr and grim RNAis PI PH3



CLONES DFH99



wt



A10>iRNA rpr-grim

## CONCLUTIONS

1. At physiological conditions there is a discontinuity in growth conditions at the borders of Dpp expression, where cell competition/morphogenetic apoptosis and compensatory proliferation take place.
2. The difference in growth conditions is not created by the levels of Dpp but by the levels of Rpr and Grim.
3. The effect of Rpr and Grim on growth is probably, by their inhibiting activity over translation.
4. Death by Cell Competition is visualized by compensatory proliferation.
5. At L3 stage, all the cell division, correspond to compensatory proliferation and are located, in part, bordering Dpp expression.



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