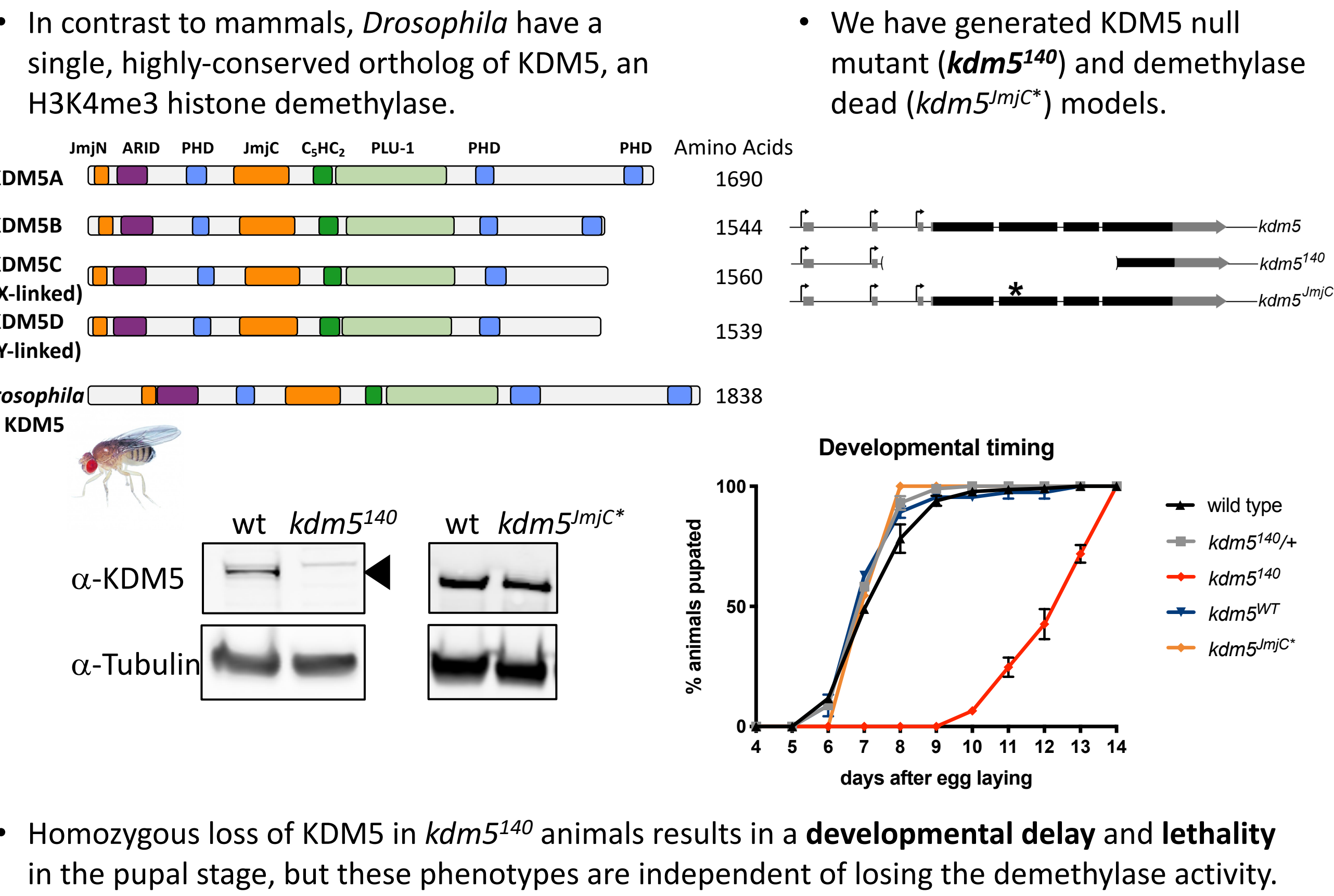


# The histone modifier KDM5 links cell cycle regulation with endocrine control of development in *Drosophila*

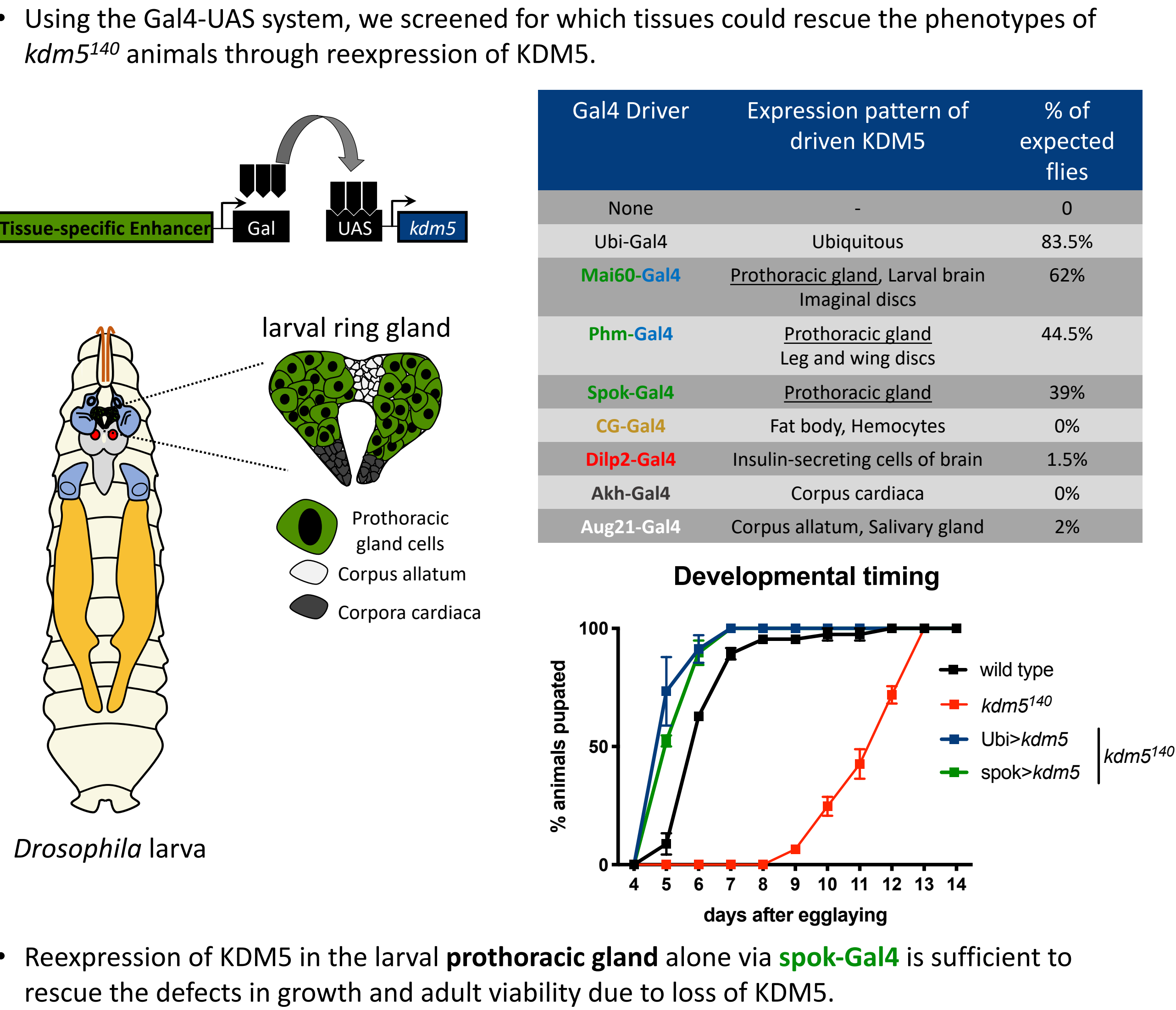
Coralie Drelon<sup>1</sup>, Michael F Rogers<sup>1</sup>, Helen M Belalcazar<sup>1</sup>, Julie Secombe<sup>1,2</sup>

1) Department of Genetics and 2) Dominick P. Purpura Department of Neuroscience Albert Einstein College of Medicine, Bronx, NY

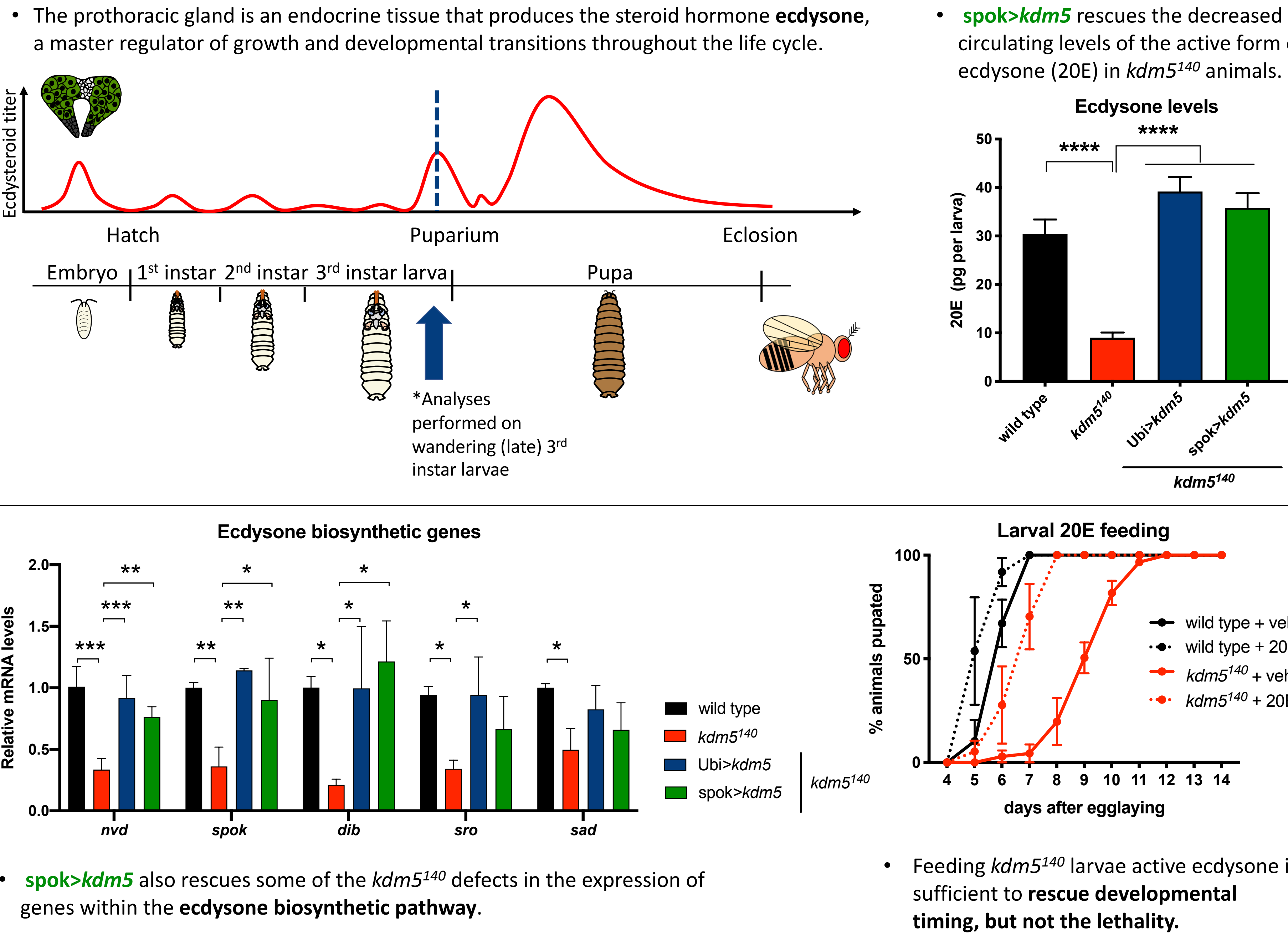
## KDM5 null mutant model: *kdm5<sup>140</sup>*



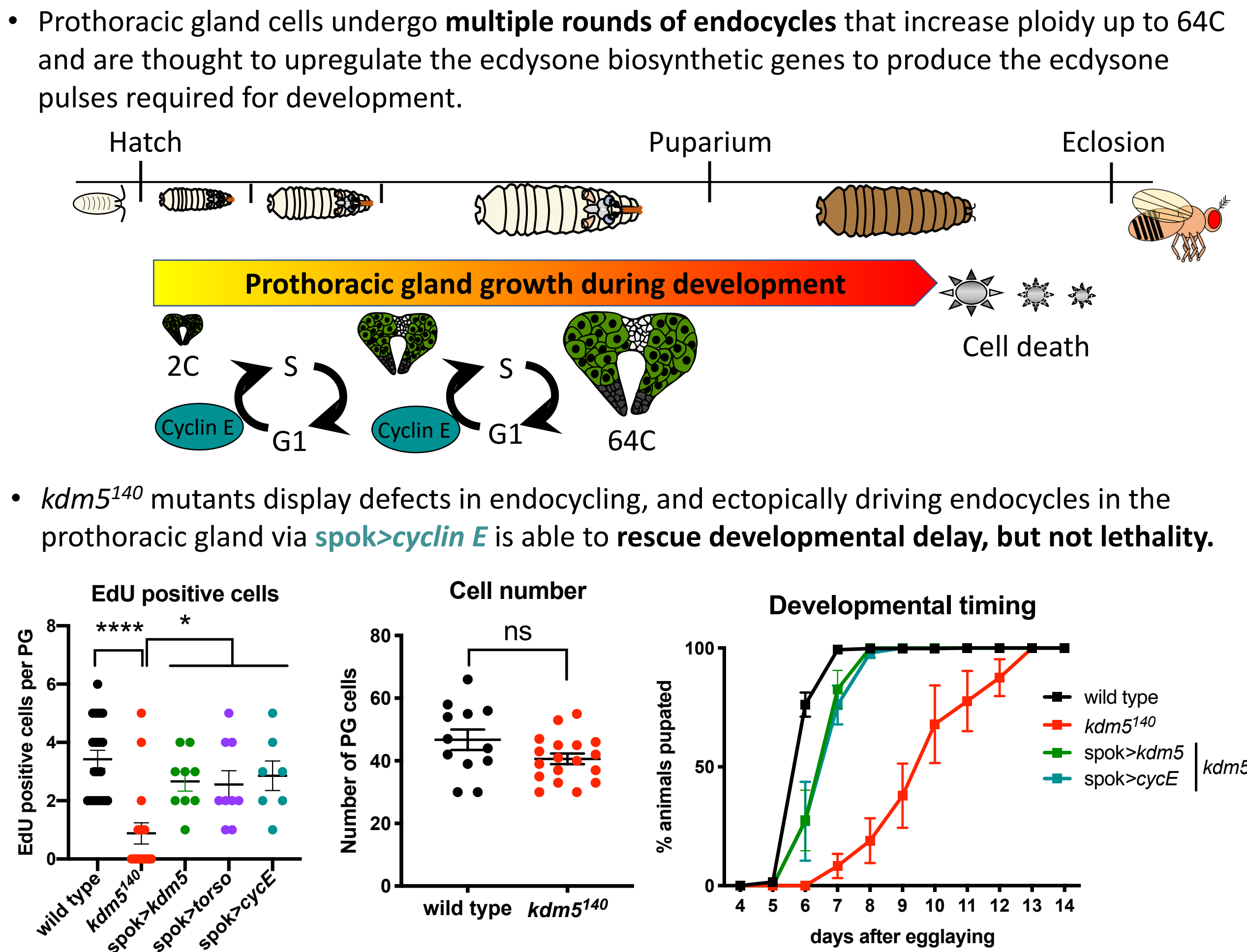
## KDM5 reexpression in larval prothoracic gland rescues *kdm5<sup>140</sup>* developmental delay and lethality



## KDM5 plays a role in endocrine regulation through activating steroid hormone ecdysone biogenesis via Torso and the MAPK pathway



## KDM5 promotes Cyclin E-mediated endoreplication in prothoracic gland cells



## Conclusions & Future Directions

