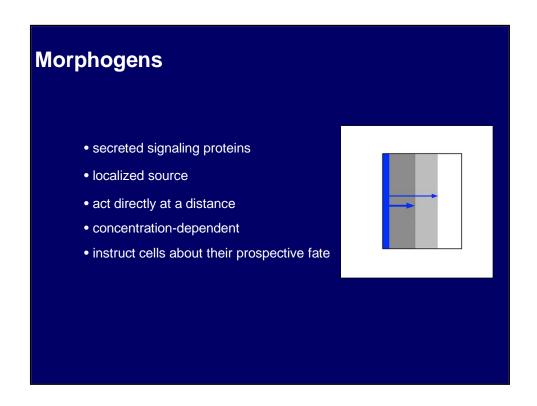
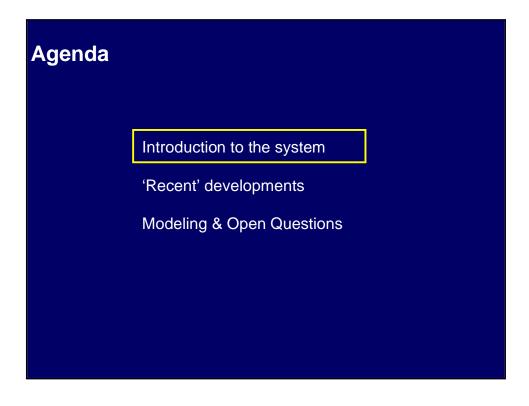
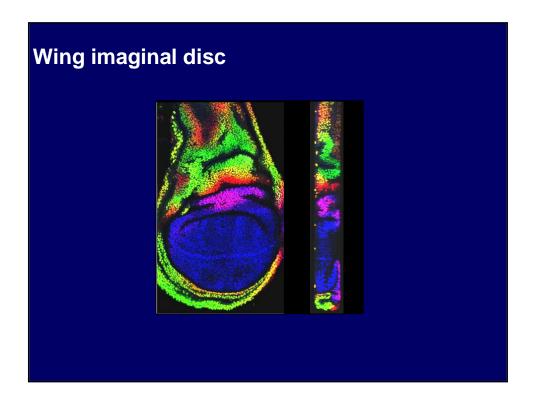
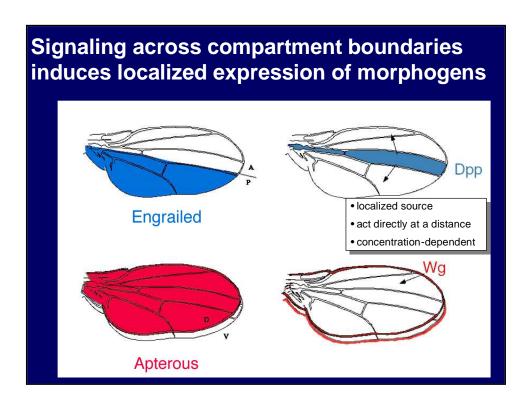
Morphogen Gradients

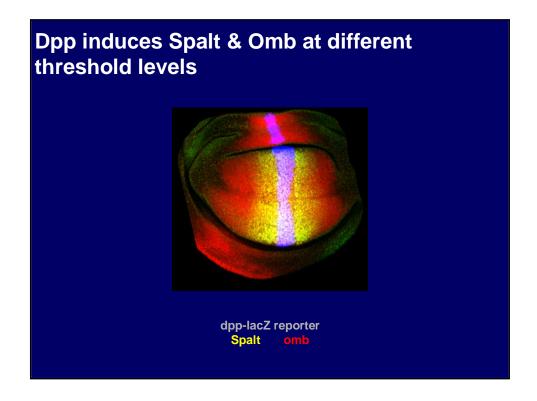


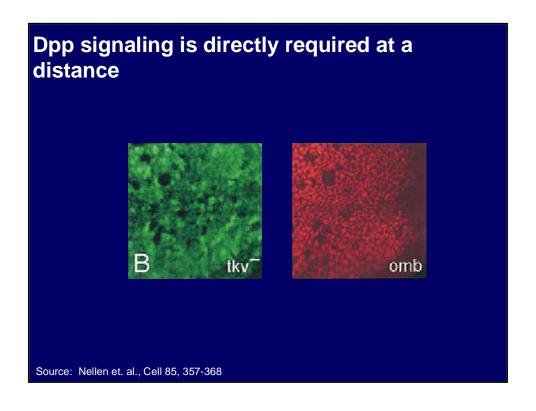


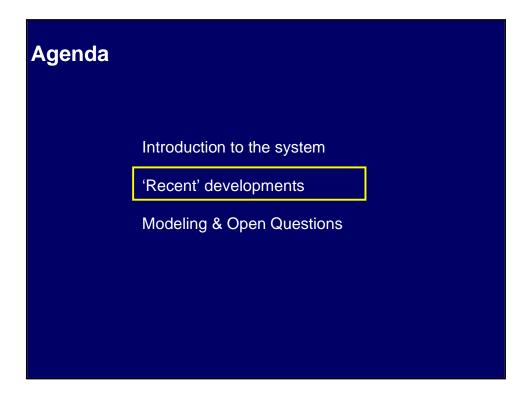


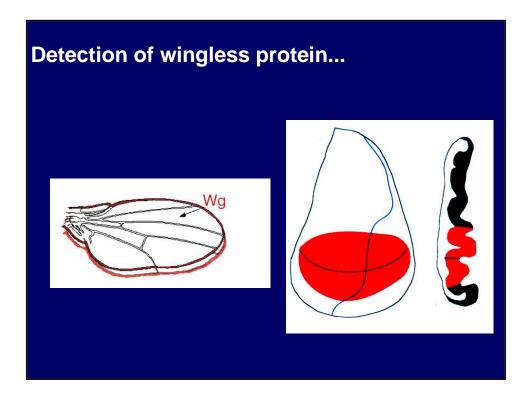




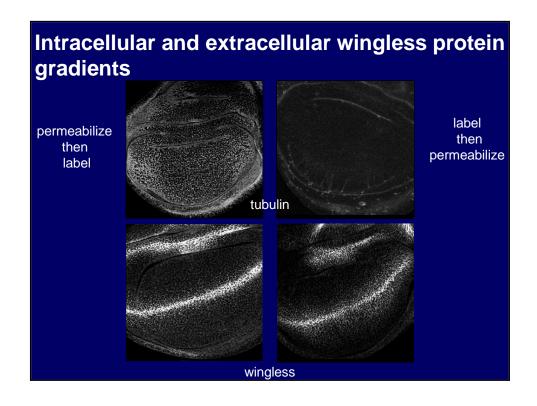


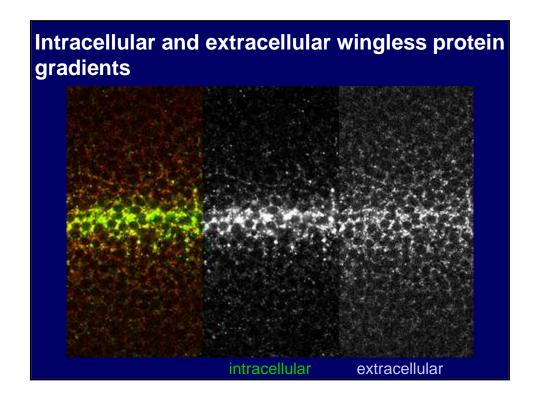


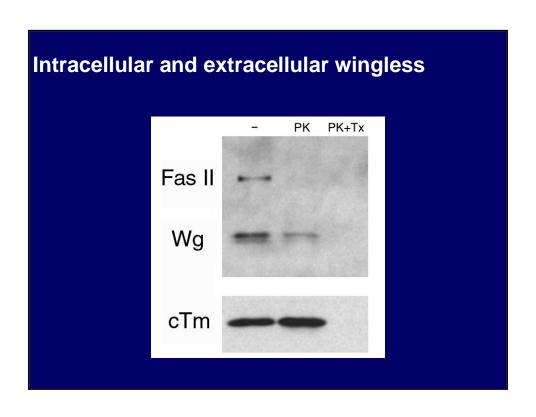


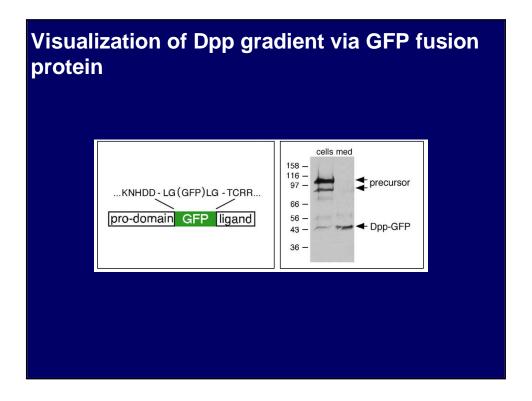


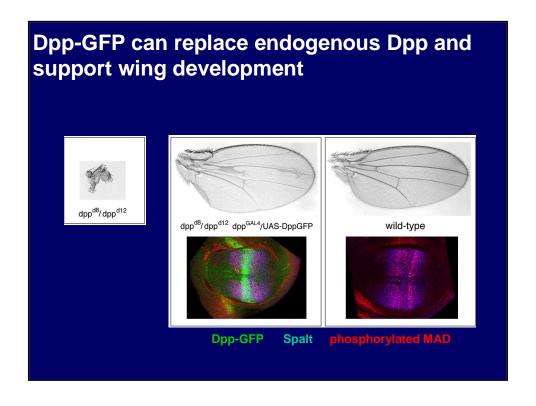


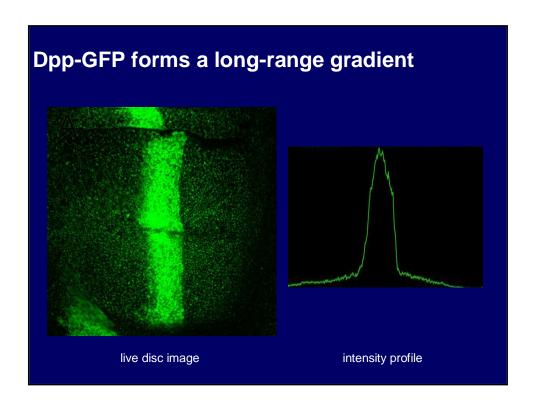


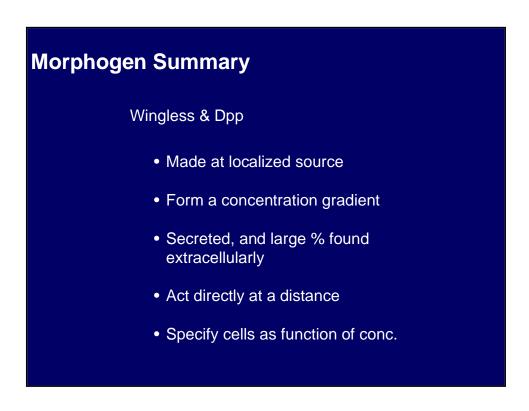


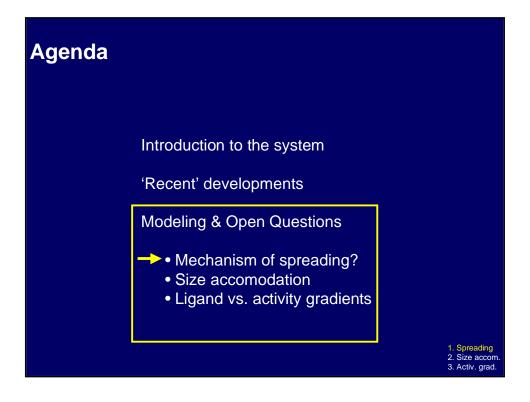


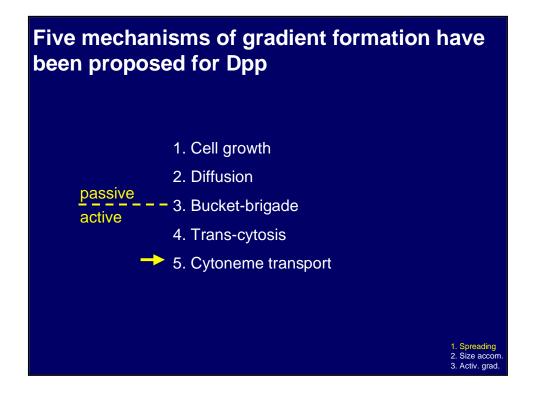


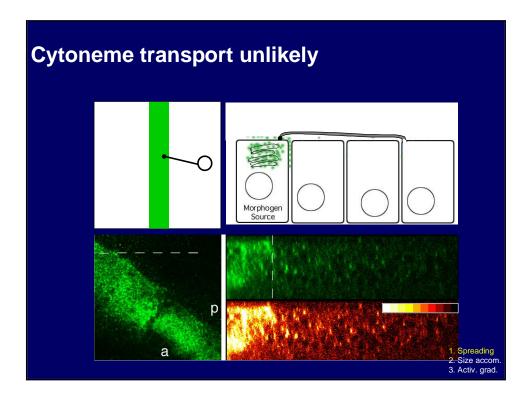


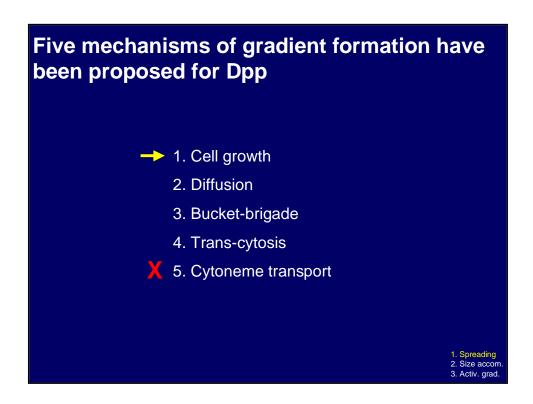


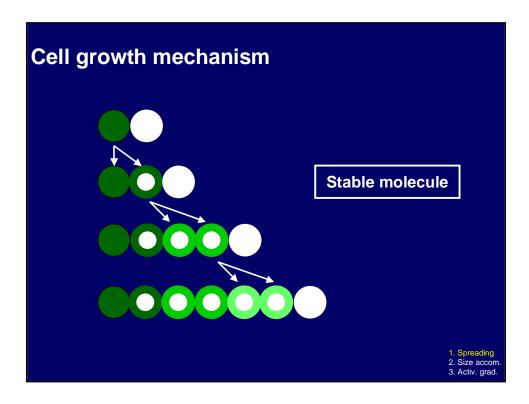


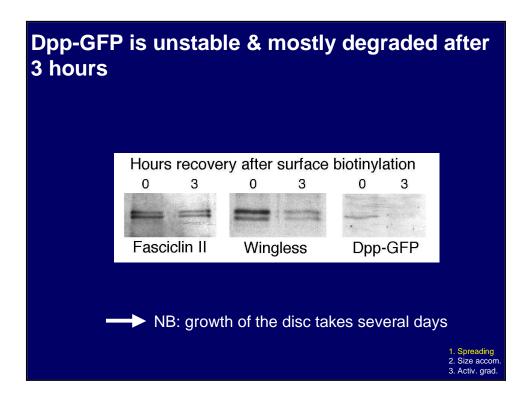


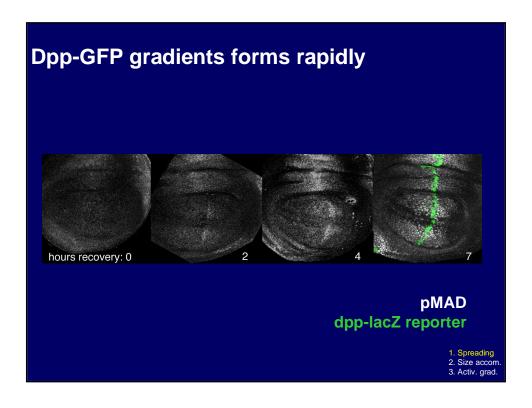


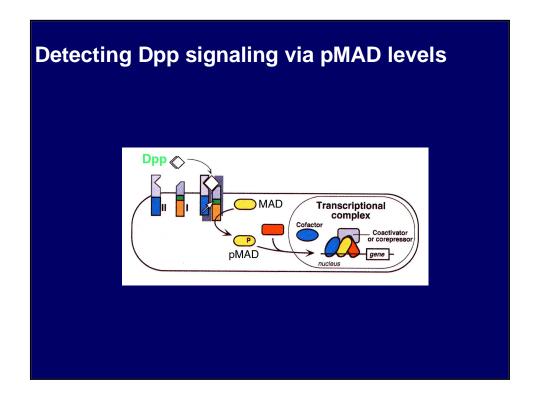


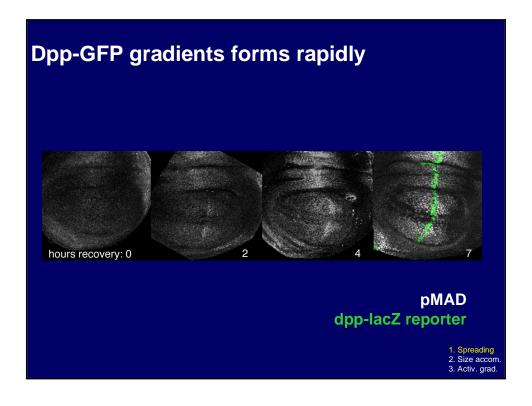


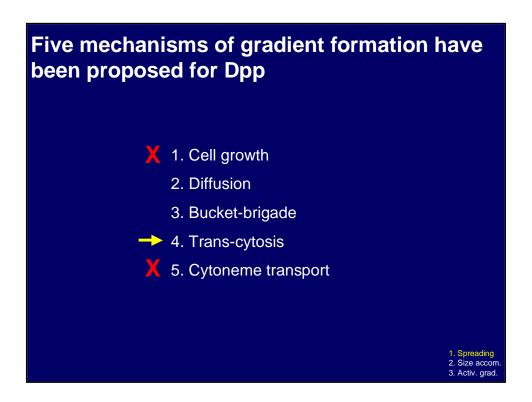


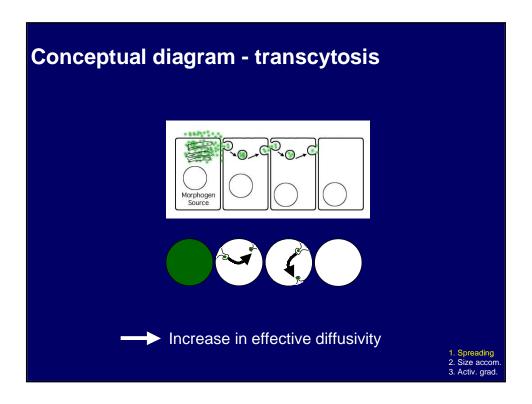


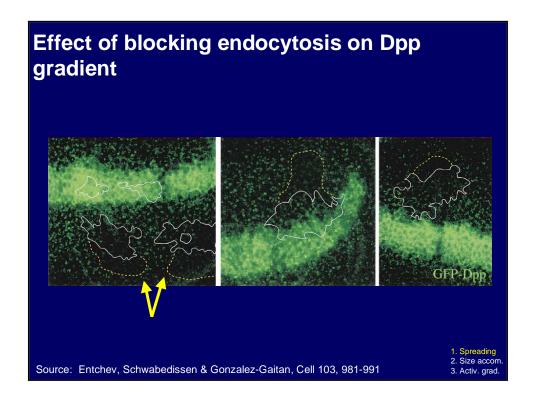


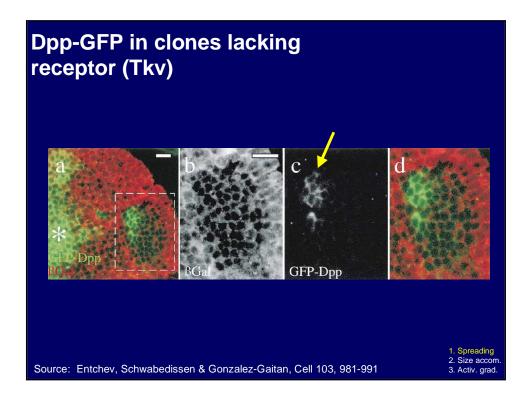


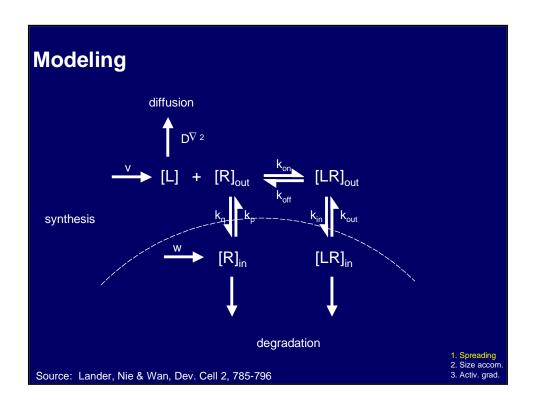


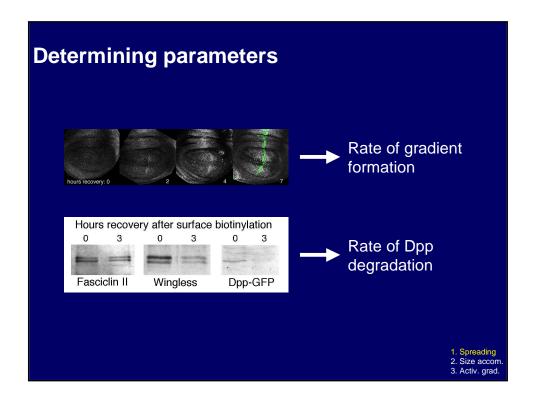


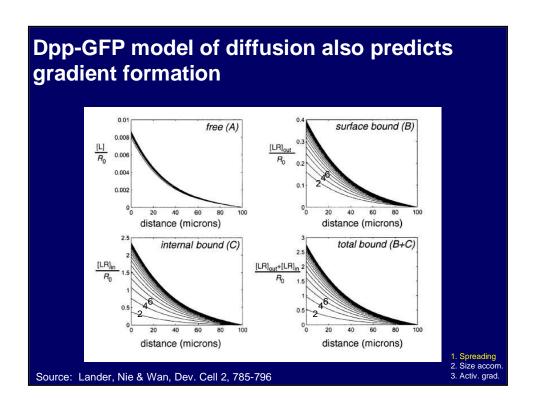


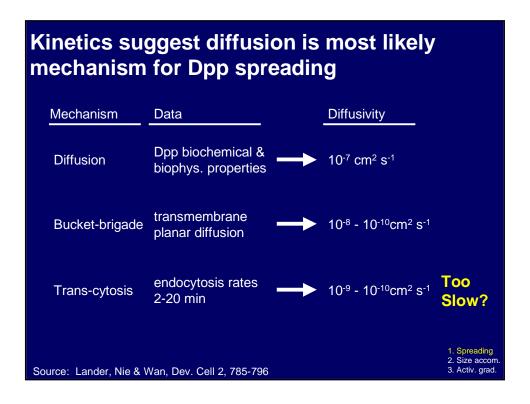


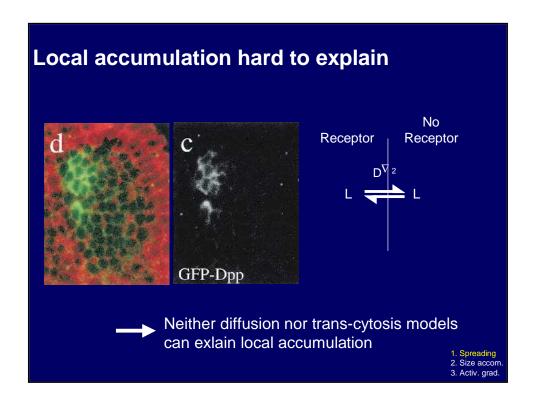


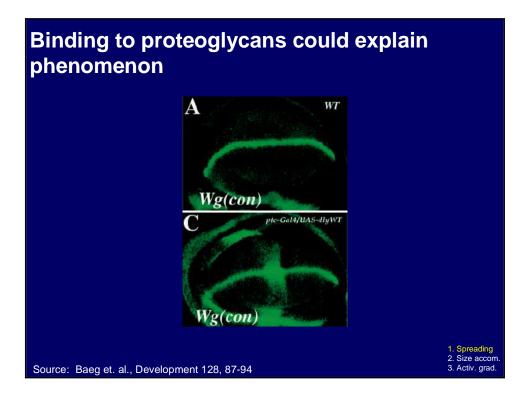


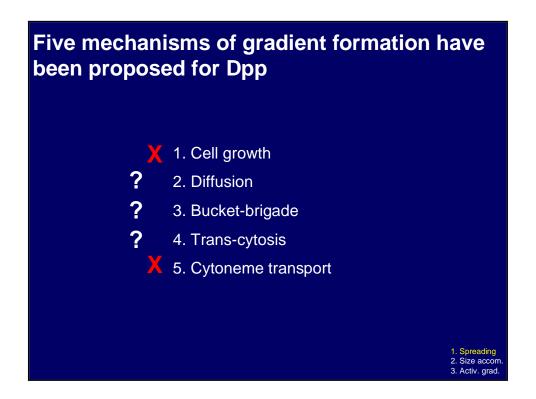


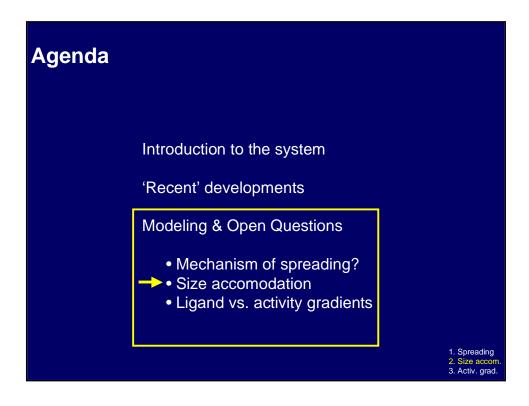


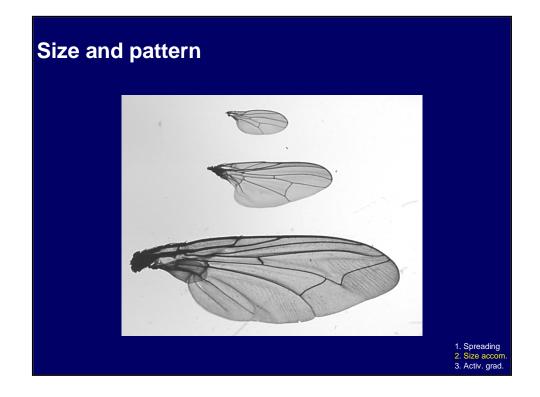


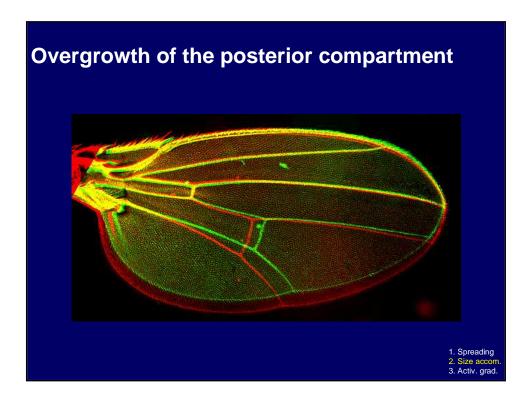


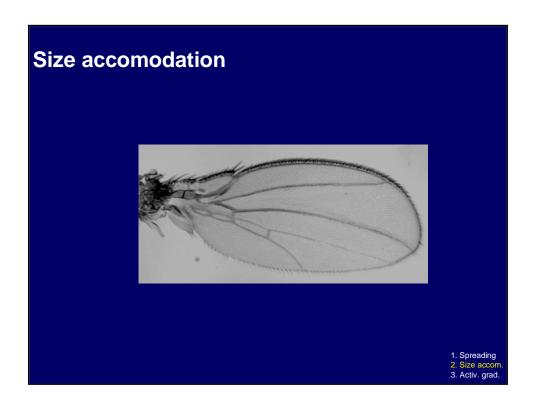


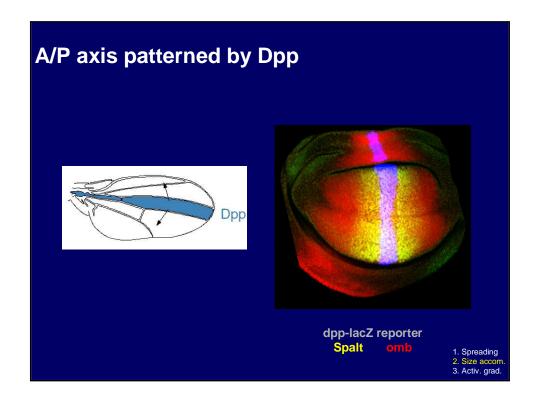


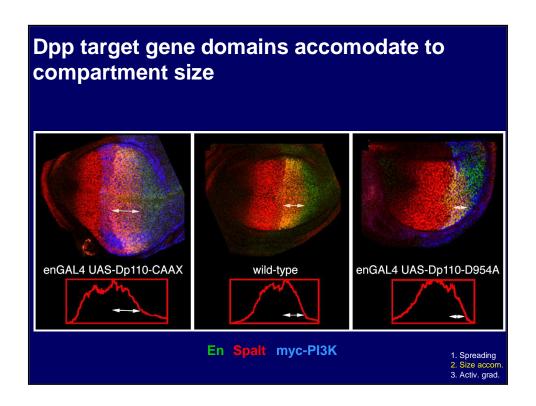


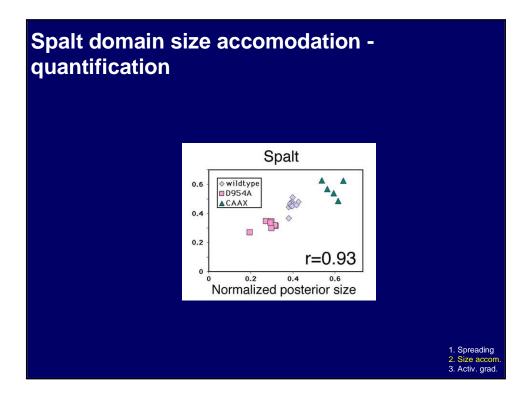


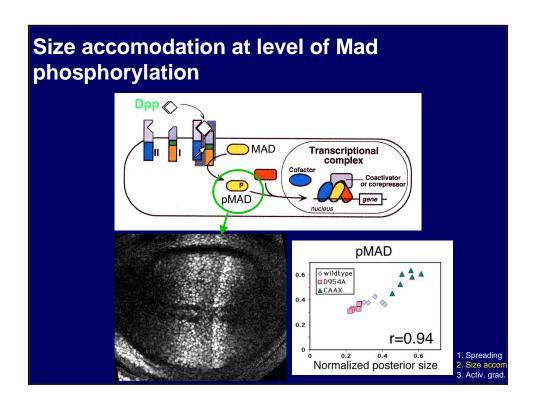


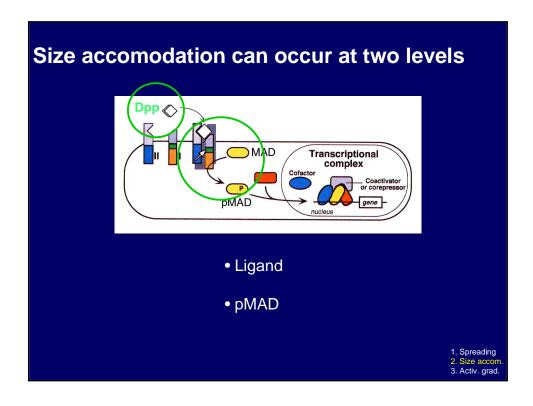


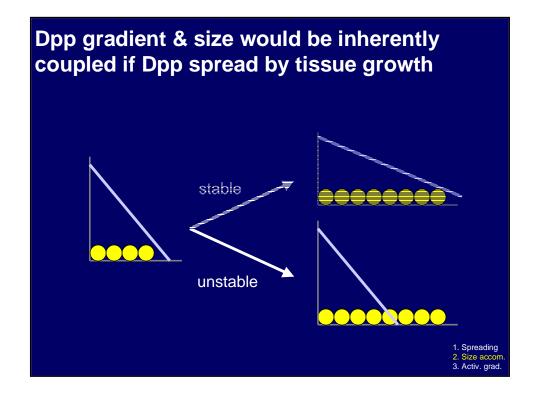


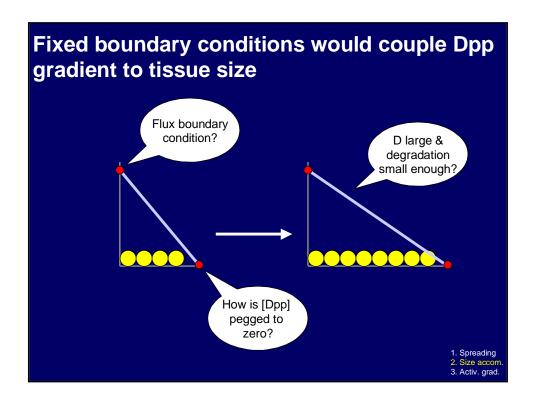


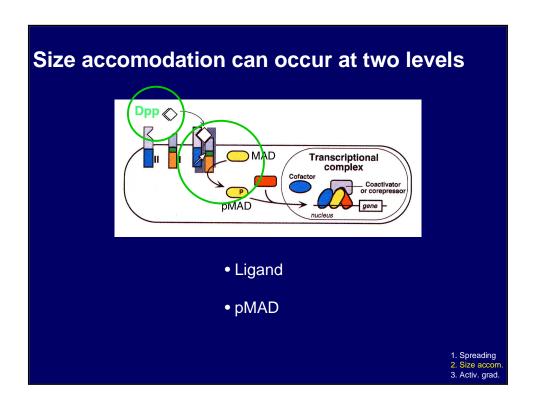


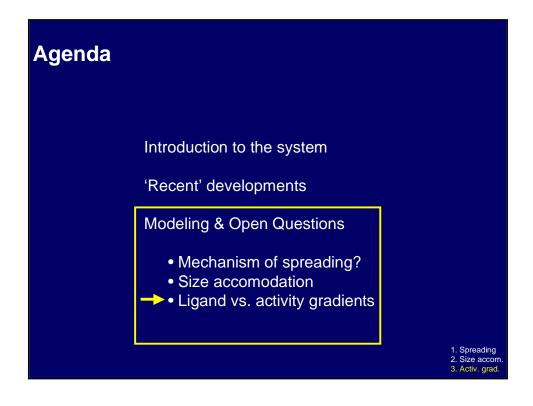


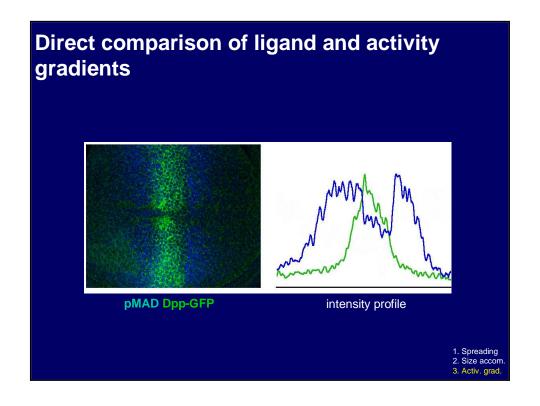


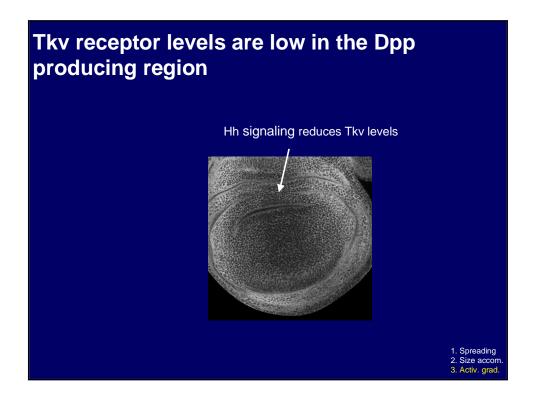


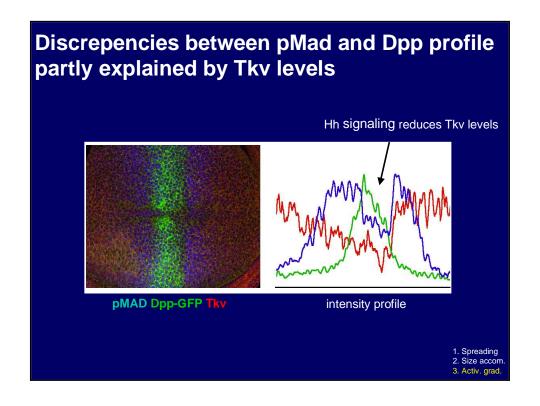


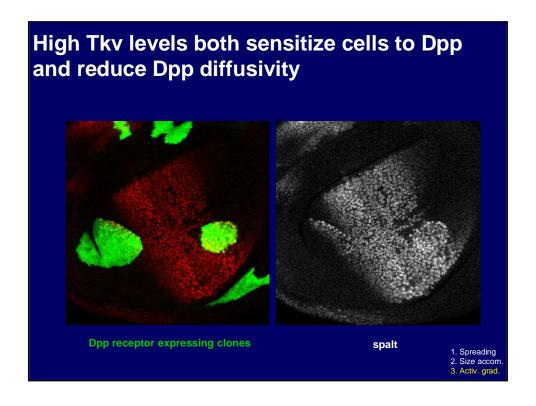


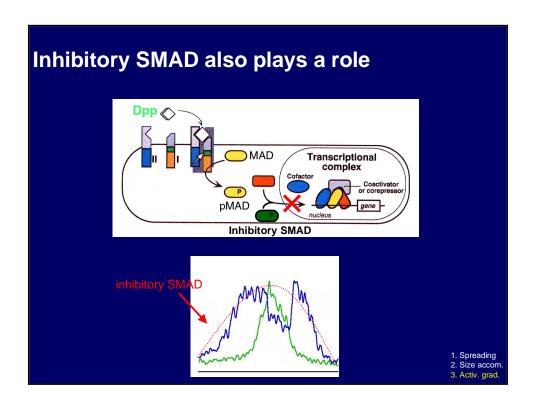












Multiple factors may affect translation of Dpp levels into Dpp signaling

- Receptor (Tkv) levels
- Inhibitory SMAD levels
- Receptor cooperativity ??
- Internalization & degradation rates ??

Spreading
 Size accom
 Activ. grad.

Conclusions & Open Questions

Dpp gradient formation

- High flux
- Tissue growth too slow & cytonemes unlikely
- · Mechanism still unclear

Size accomodation

- Occurs at 'high level' (ligand, receptor, etc.)
- May involve translation of Dpp levels into pMAD levels
- · Mechanism still unclear

Acknowledgements Maura Strigini Stephen Cohen



