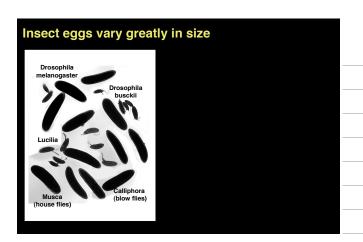
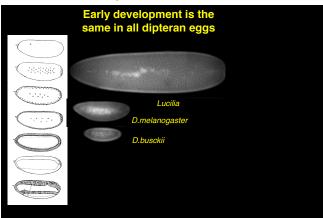
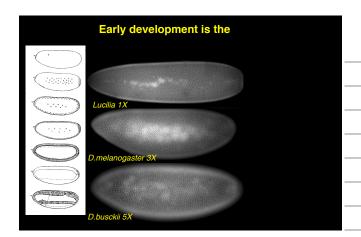
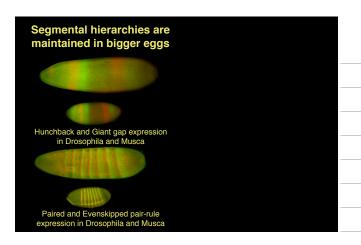


Evolution of Bicoid-based Patterning in the Diptera





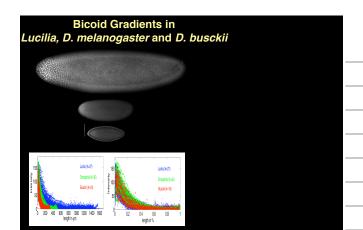




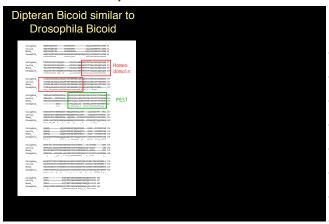
How is the scaling of transcriptional pattern achieved?

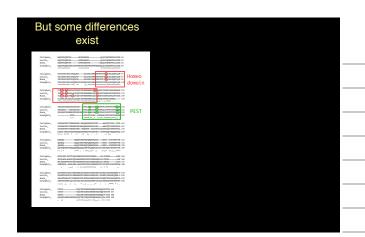
1) adjustments in cis-acting control region of target genes

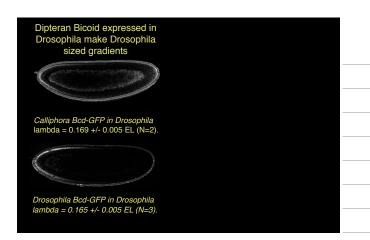
2) adjustment in distribution of Bcd (shape of gradient)

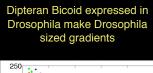


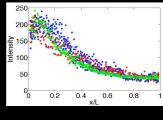
What properties/regions of Bcd have changed during evolution of Diptera?











Dipteran Bicoid expressed in Drosophila make Drosophila sized gradients



It is not Bicoid itself that is changing, but some property of the egg

What properties of the egg itself could influence Bicoid distribution and might have changed during evolution of Diptera?

How do those properties sync with the more obvious change in egg size?

How are changes in a patterning system coordinated during

_			

	iBioSeminars by Eric Wieschaus	_	Part 3
Alistair			
	Thomas Gregor Alistair McGregor		
	Bill Bialek		