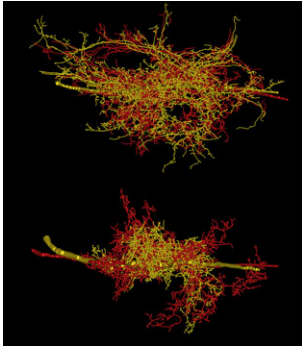
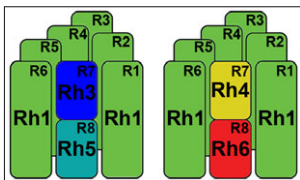


# Development



**Cover:** Overlay of two geometric dendrite reconstructions of an adult *Drosophila* motoneuron showing the dendritic tree in control flies (top) and in flies expressing the transcription factor AP-1 at early developmental stages (bottom). Premature AP-1 expression disrupts dendrite growth, affecting most severely sub-trees in the proximal-posterior region of the dendritic tree. See Research article by Vonhoff et al. on p.606.



As part of the 'Development: the big picture' series, Rister, Desplan and Vasiliauskas discuss the mechanisms that generate and maintain sensory receptor expression patterns in the fly eye and compare them with those operating in the mouse retina and in the mouse and fly olfactory systems. See Primer on p. 493.

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- 583 Lrp4 and Wise interplay controls the formation and patterning of mammary and other skin appendage placodes by modulating Wnt signaling  
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- 594 Mastermind-like transcriptional co-activator-mediated Notch signaling is indispensable for maintaining conjunctival epithelial identity  
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- 606 Temporal coherency between receptor expression, neural activity and AP-1-dependent transcription regulates *Drosophila* motoneuron dendrite development  
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- 617 Kif5b controls the localization of myofibril components for their assembly and linkage to the myotendinous junctions  
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