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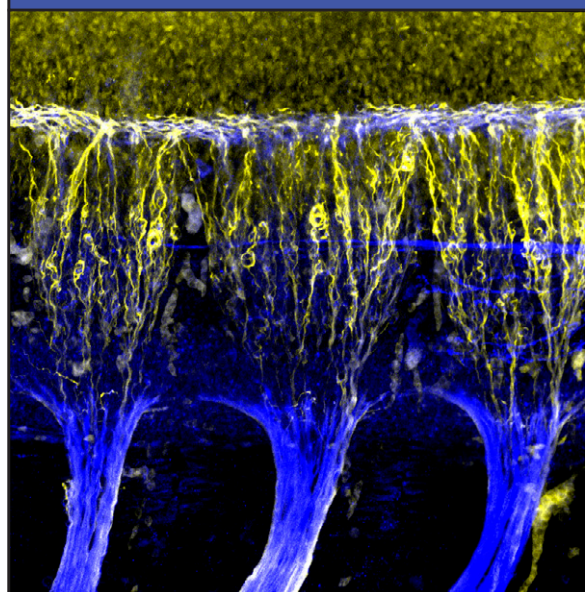
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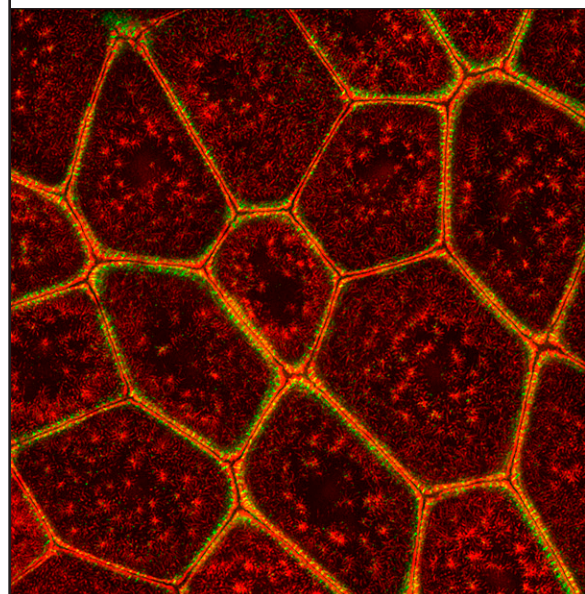


### On the cover

McConnell et al. find that the repulsive guidance cue Slit induces the formation and elongation of growth cone filopodia by promoting binding of Ena/VASP proteins to the Robo receptor and that this response is required for dorsal root ganglion axons to avoid Slit. In this image of a whole-mount wild-type mouse embryo, axons extending from the dorsal root ganglia (yellow) make a sharp turn upon entering the spine, aligning normally along the anterior/posterior axis in response to Slit secreted from the dorsal spine midline. Neurofilament, yellow; GAP43, blue.

Image © 2016 McConnell et al.  
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- 243      **Remodeling the zonula adherens in response to tension and the role of afadin in this response**  
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- 261      **A requirement for filopodia extension toward Slit during Robo-mediated axon repulsion**  
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- 275      **Osteopontin ablation ameliorates muscular dystrophy by shifting macrophages to a pro-regenerative phenotype**  
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Depletion of ZO proteins led to remodeling of the zonula adherens into a contractile actomyosin machine. Confluent ZO-1/ZO-2 knockdown MDCK cells were immunostained for F-actin (red) and non-muscle myosin type IIB (green). Shown is a projection of an apical 3- $\mu$ m tissue section. Superresolution images were acquired and processed using an OMX structured illumination microscope. Image is courtesy of Wangsun Choi (University of North Carolina at Chapel Hill). Image © 2016 Choi et al. See page 243.