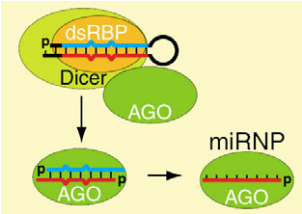
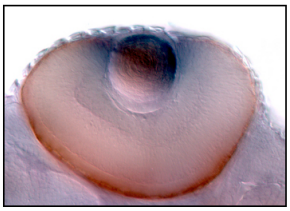
Development

Cover: Regenerated *Smed-βcatenin1* RNAi-silenced planarians showing the most extreme phenotype: radial-like hypercephalized animals, with eyes all around the new circular edge. These planarians lose the classical bilateral directional movement and acquire a medusa-like shape. See research report by Iglesias et al. on p. 1215.



Several distinct classes of small RNAs, some newly identified, have been discovered to play important roles in various and diverse cellular processes. In this issue, Thomas Tuschl and colleagues review the classes of small RNAs known to date, their cellular functions and protein partners, and their association with specific Ago/Piwi family members. See review on p. 1201.



Retina of a 48 hpf zebrafish embryo, showing that zebrafish *chk2* expression is similar to that of *prim1* (which encodes the DNA primase small subunit). In this study, Yamaguchi et al. report that neuronal apoptosis caused by a *prim1* mutation depends on the ATM-Chk2-p53 apoptotic pathway. See research article on p. 1247.

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