



**Cover:** The Gaudí toolkit allows single-cell labelling and long-term lineage analysis in Medaka. The image shows a representative Gaudí retina that contains multiple clones labelled with different colours. See Research article by Centanin et al. on p. 3472.

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- 3495 SirT1 is required in the male germ cell for differentiation and fecundity in mice  
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- 3505 The PDZ domain protein Mcc is a novel effector of non-canonical Wnt signaling during convergence and extension in zebrafish  
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- 3517 Fate map of *Medicago truncatula* root nodules  
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- 3529 Simplet/Fam53b is required for Wnt signal transduction by regulating  $\beta$ -catenin nuclear localization  
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- 3540 Cdk5 and its substrates, Dcx and p27<sup>kip1</sup>, regulate cytoplasmic dilation formation and nuclear elongation in migrating neurons  
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- 3551 Indispensable pre-mitotic endocycles promote aneuploidy in the *Drosophila* rectum  
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- 3561 Prostaglandin D<sub>2</sub> acts through the Dp2 receptor to influence male germ cell differentiation in the foetal mouse testis  
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- 3572 NRP1-mediated Sema3A signals coordinate laminar formation in the developing chick optic tectum  
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- 3594 Dephosphorylation and inactivation of NPR2 guanylyl cyclase in granulosa cells contributes to the LH-induced decrease in cGMP that causes resumption of meiosis in rat oocytes  
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- 3605 A dynamic analysis of muscle fusion in the chick embryo  
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