

# Development



A close-up image of a lawn of *bri1 ld Arabidopsis thaliana* plants during early vegetative growth. This double mutant was used to establish the positive role of steroid signalling during the developmental transition towards reproductive growth. See research article by Domagalska et al. on p. 2841.

## REVIEW

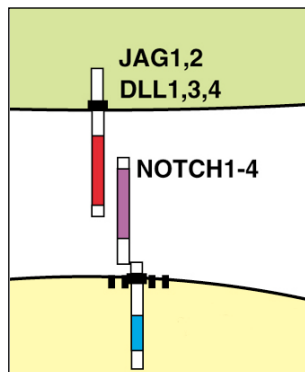
- 2709** Notch signaling in vascular development and physiology  
Gridley, T.

## RESEARCH REPORT

- 2719** Unique mechanisms of growth regulation and tumor suppression upon Apc inactivation in the pancreas  
Strom, A., Bonal, C., Ashery-Padan, R., Hashimoto, N., Campos, M. L., Trumpp, A., Noda, T., Kido, Y., Real, F. X., Thorel, F. and Herrera, P. L.

## RESEARCH ARTICLES

- 2727** Chondroitin sulfate glycosaminoglycans control proliferation, radial glia cell differentiation and neurogenesis in neural stem/progenitor cells  
Sirko, S., von Holst, A., Wizenmann, A., Götz, M. and Faissner, A.
- 2739** The IL-4/IL-13/Stat6 signalling pathway promotes luminal mammary epithelial cell development  
Khaled, W. T., Read, E. K. C., Nicholson, S. E., Baxter, F. O., Brennan, A. J., Came, P. J., Sprigg, N., McKenzie, A. N. J. and Watson, C. J.
- 2751** Requirement for ERK MAP kinase in mouse preimplantation development  
Maekawa, M., Yamamoto, T., Kohno, M., Takeichi, M. and Nishida, E.
- 2761** *Foxa1* and *Foxa2* regulate multiple phases of midbrain dopaminergic neuron development in a dosage-dependent manner  
Ferri, A. L. M., Lin, W., Mavromatakis, Y. E., Wang, J. C., Sasaki, H., Whitsett, J. A. and Ang, S.-L.
- 2771** Zebrafish *relatively relaxed* mutants have a ryanodine receptor defect, show slow swimming and provide a model of multi-minicore disease  
Hirata, H., Watanabe, T., Hatakeyama, J., Sprague, S. M., Saint-Amant, L., Nagashima, A., Cui, W. W., Zhou, W. and Kuwada, J. Y.
- 2783** Helt determines GABAergic over glutamatergic neuronal fate by repressing Ngn genes in the developing mesencephalon  
Nakatani, T., Minaki, Y., Kumai, M. and Ono, Y.
- 2795** Bi-compartmental communication contributes to the opposite proliferative behavior of Notch1-deficient hair follicle and epidermal keratinocytes  
Lee, J., Basak, J. M., Demehri, S. and Kopan, R.
- 2807** The *Drosophila* HMG-domain proteins SoxNeuro and Dichaete direct trichome formation via the activation of *shavenbaby* and the restriction of Wingless pathway activity  
Overton, P. M., Chia, W. and Buescher, M.
- 2815** Conserved pattern of tangential neuronal migration during forebrain development  
Métin, C., Alvarez, C., Moudoux, D., Vitalis, T., Pieau, C. and Molnár, Z.
- 2829** Two distinct sources for a population of maturing axial progenitors  
Cambay, N. and Wilson, V.
- 2841** Attenuation of brassinosteroid signaling enhances *FLC* expression and delays flowering  
Domagalska, M. A., Schomburg, F. M., Amasino, R. M., Vierstra, R. D., Nagy, F. and Davis, S. J.
- 2851** A novel eIF4G homolog, Off-schedule, couples translational control to meiosis and differentiation in *Drosophila* spermatocytes  
Franklin-Dumont, T. M., Chatterjee, C., Wasserman, S. A. and DiNardo, S.



Notch signalling plays a crucial role in numerous developmental processes and is defective in several inherited diseases and cancers. In this issue, Thomas Gridley discusses its importance in vascular development and physiology, reviewing recent work showing that it regulates artery-vein differentiation and blood vessel sprouting and branching during angiogenesis. **See review on p. 2709.**

- 2863** Translational control of meiotic cell cycle progression and spermatid differentiation in male germ cells by a novel eIF4G homolog  
**Baker, C. C. and Fuller, M. T.**

#### DEVELOPMENT AND DISEASE

- 2871** Early developmental specification of the thyroid gland depends on *han*-expressing surrounding tissue and on FGF signals  
**Wendl, T., Adzic, D., Schoenebeck, J. J., Scholpp, S., Brand, M., Yelon, D. and Rohr, K. B.**
- 2881** Midbrain dopaminergic neurogenesis and behavioural recovery in a salamander lesion-induced regeneration model  
**Parish, C. L., Beljajeva, A., Arenas, E. and Simon, A.**