



Cover: Double staining of laryngeal cartilages (SOX9⁺, green) and laryngeal muscles (MF20⁺, red) and of nuclei (DAPI, blue) in a β -catenin conditional knockout mouse at E16.5. Ablation of β -catenin in vocal fold epithelial progenitors during early stages of vocal fold development leads to serious defects in differentiation of surrounding mesenchyme. **See Research article by Lungova et al. (dev157677).**

EDITORIAL

Introducing preLights: preprint highlights, selected by the biological community

Brown, K. and Pourquié, O.

dev164186

SPOTLIGHT

An interview with Ykä Helariutta

Maartens, A.

dev162339

DEVELOPMENT AT A GLANCE

Cytokinin signaling in plant development

Kieber, J. J. and Schaller, G. E.

dev149344

REVIEW

Autophagy in stem cells: repair, remodelling and metabolic reprogramming

Boya, P., Codogno, P. and Rodriguez-Muela, N.

dev146506

HUMAN DEVELOPMENT

TCF7L1 suppresses primitive streak gene expression to support human embryonic stem cell pluripotency

Sierra, R. A., Hoverter, N. P., Ramirez, R. N., Vuong, L. M., Mortazavi, A., Merrill, B. J., Waterman, M. L. and Donovan, P. J.

dev161075

STEM CELLS AND REGENERATION

Podoplanin regulates mammary stem cell function and tumorigenesis by potentiating Wnt/ β -catenin signaling

Bresson, L., Faraldo, M. M., Di-Cicco, A., Quintanilla, M., Glukhova, M. A. and Deugnier, M.-A.

dev160382

H3K9 demethylase KDM4E is an epigenetic regulator for bovine embryonic development and a defective factor for nuclear reprogramming

Liu, X., Wang, Y., Gao, Y., Su, J., Zhang, J., Xing, X., Zhou, C., Yao, K., An, Q. and Zhang, Y.

dev158261

ES cell-derived presomitic mesoderm-like tissues for analysis of synchronized oscillations in the segmentation clock

Matsumiya, M., Tomita, T., Yoshioka-Kobayashi, K., Isomura, A. and Kageyama, R.

dev156836

RESEARCH REPORT

Microbiota promote secretory cell determination in the intestinal epithelium by modulating host Notch signaling

Troll, J. V., Hamilton, M. K., Abel, M. L., Ganz, J., Bates, J. M., Stephens, W. Z., Melancon, E., van der Vaart, M., Meijer, A. H., Distel, M., Eisen, J. S. and Guillemain, K.

dev155317

RESEARCH ARTICLES

Connexin 30 controls astroglial polarization during postnatal brain development

Ghézali, G., Calvo, C.-F., Pillet, L.-E., Llense, F., Ezan, P., Pannasch, U., Bemelmans, A.-P., Etienne Manneville, S. and Rouach, N.

dev155275

Forced lipophagy reveals that lipid droplets are required for early embryonic development in mouse

Tatsumi, T., Takayama, K., Ishii, S., Yamamoto, A., Hara, T., Minami, N., Miyasaka, N., Kubota, T., Matsuura, A., Itakura, E. and Tsukamoto, S.

dev161893

Lsd1 interacts with cMyb to demethylate repressive histone marks and maintain inner ear progenitor identity

Ahmed, M. and Streit, A.

dev160325

Mesenchymal Wnt/ β -catenin signaling limits tooth number

Järvinen, E., Shimomura-Kuroki, J., Balic, A., Jussila, M. and Thesleff, I.

dev158048

β -Catenin signaling is essential for mammalian larynx recanalization and the establishment of vocal fold progenitor cells

Lungova, V., Verheyden, J. M., Sun, X. and Thibeault, S. L.

dev157677

The ELMO-MBC complex and RhoGAP19D couple Rho family GTPases during mesenchymal-to-epithelial-like transitions

Toret, C. P., Shivakumar, P. C., Lenne, P.-F. and Le Bivic, A.

dev157495

TECHNIQUES AND RESOURCES

Genome and epigenome engineering CRISPR toolkit for *in vivo* modulation of *cis*-regulatory interactions and gene expression in the chicken embryo

Williams, R. M., Senanayake, U., Artibani, M., Taylor, G., Wells, D., Ahmed, A. A. and Sauka-Spengler, T.
dev160333

Validating upstream regulators of Yorkie activity in Hippo signaling through *scalloped*-based genetic epistasis

Yu, J. and Pan, D.
dev157545

A genetically encoded fluorescent probe for imaging of oxygenation gradients in living *Drosophila*

Lidsky, P. V., Lukyanov, K. A., Misra, T., Handke, B., Mishin, A. S. and Lehner, C. F.

dev156257

CORRECTION

Correction: CIP2A acts as a scaffold for CEP192-mediated microtubule organizing center assembly by recruiting Plk1 and aurora A during meiotic maturation (doi:10.1242/dev.158584)

Wang, H., Choe, M. H., Lee, I.-W., Namgoong, S., Kim, J.-S., Kim, N.-H. and Oh, J. S.

dev164483