



Cover: A high-magnification scanning electron microscopy image of a cracked stem in a *clv3 det3-1* mutant. Higher proliferation in stem inner tissues increases mechanical stress in the epidermis; when combined with weaker cell walls, this leads to loss of tissue integrity and cracking. See Research article by Asaoka et al. (dev198028)

OBITUARY

Obituary: Friedrich Bonhoeffer (1932-2021)
Drescher, U.
dev199522

INTERVIEW

An interview with Cagney Coomer
Maartens, A.
dev199457

REVIEWS

Dynamic properties of mitochondria during human corticogenesis
Baum, T. and Gama, V.
dev194183

Understanding axial progenitor biology *in vivo* and *in vitro*
Wymeersch, F. J., Wilson, V. and Tsakiridis, A.
dev180612

Craniofacial transitions: the role of EMT and MET during head development
Milmo, N. J. and Tucker, A. S.
dev196030

HUMAN DEVELOPMENT

4D formation of human embryonic forelimb musculature
Wilde, S., Feneck, E. M., Mohun, T. J. and Logan, M. P. O.
dev194746

STEM CELLS AND REGENERATION

Hes1 overexpression leads to expansion of embryonic neural stem cell pool and stem cell reservoir in the postnatal brain
Ohtsuka, T. and Kageyama, R.
dev189191

Oxygen regulates epithelial stem cell proliferation via RhoA-actomyosin-YAP/TAZ signal in mouse incisor
Otsu, K., Ida-Yonemochi, H., Ikezaki, S., Ema, M., Hitomi, J., Ohshima, H. and Harada, H.
dev194787

RESEARCH ARTICLES

Stem integrity in *Arabidopsis thaliana* requires a load-bearing epidermis
Asaoka, M., Ooe, M., Gunji, S., Milani, P., Runel, G., Horiguchi, G., Hamant, O., Sawa, S., Tsukaya, H. and Ferjani, A.
dev198028

Tissue growth constrains root organ outlines into an isometrically scalable shape
Fujiwara, M., Goh, T., Tsugawa, S., Nakajima, K., Fukaki, H. and Fujimoto, K.
dev196253

A dynamic and mosaic basement membrane controls cell intercalation in *Drosophila* ovaries

Van De Bor, V., Loreau, V., Malbouyres, M., Cerezo, D., Placenti, A., Ruggiero, F. and Noselli, S.
dev195511

Precision of tissue patterning is controlled by dynamical properties of gene regulatory networks

Exelby, K., Herrera-Delgado, E., Perez, L. G., Perez-Carrasco, R., Sagner, A., Metzis, V., Sollich, P. and Briscoe, J.
dev197566

Roles of developmentally regulated KIF2A alternative isoforms in cortical neuron migration and differentiation

Akkaya, C., Atak, D., Kamacioglu, A., Akarlar, B. A., Guner, G., Bayam, E., Taskin, A. C., Ozlu, N. and Ince-Dunn, G.
dev192674

Vasohibin 1 selectively regulates secondary sprouting and lymphangiogenesis in the zebrafish trunk

de Oliveira, M. B., Meier, K., Jung, S., Bartels-Klein, E., Coxam, B., Geudens, I., Szymborska, A., Skoczylas, R., Fechner, I., Koltowska, K. and Gerhardt, H.
dev194993

HoxB genes regulate neuronal delamination in the trunk neural tube by controlling the expression of *Lzts1*

Wilmerding, A., Rinaldi, L., Caruso, N., Lo Re, L., Bonzom, E., Saurin, A. J., Graba, Y. and Delfini, M.-C.
dev195404

Feedback control of the Gpr161-G_{αs}-PKA axis contributes to basal Hedgehog repression in zebrafish

Tschaikner, P. M., Regele, D., Röck, R., Salvenmoser, W., Meyer, D., Bouvier, M., Geley, S., Stefan, E. and Aanstad, P.
dev192443

Retinoic acid production, regulation and containment through Zic1, Pitx2c and Cyp26c1 control cranial placode specification
Dubey, A., Yu, J., Liu, T., Kane, M. A. and Saint-Jeannet, J.-P.
dev193227

Ciliopathic micrognathia is caused by aberrant skeletal differentiation and remodeling

Bonatto Paese, C. L., Brooks, E. C., Aarnio-Peterson, M. and Brugmann, S. A.
dev194175

CORRECTION

Correction: A single cell RNA sequencing resource for early sea urchin development

Foster, S., Oulhen, N. and Wessel, G.
dev199412