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Cover: Immunofluorescent confocal microscopy of a 3-week-old mouse tibial growth plate and adjoining secondary centre of ossification. The section is stained to show the distribution of two important cartilage structural proteins: matrilin-3 (green) and type XII collagen (orange). The highly ordered chondrocyte ‘columns’ are clearly visible (nuclei stained blue with DAPI) with a matrilin-3-rich pericellular matrix appearing as a green halo around each cell. Type XII collagen is localised to the inter-territorial matrix between individual chondrocyte columns and at the border of the secondary centre of ossification. As professional secretory cells, chondrocytes are highly susceptible to ER stress due to the misfolding of mutant proteins in genetic skeletal diseases. See article by Gualeni et al. on page 1414.
**RESEARCH ARTICLES**

1365 Polyunsaturated fatty acyl-coenzyme As are inhibitors of cholesterol biosynthesis in zebrafish and mice
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1378 Sestrin-2, a repressor of PDGFRβ signalling, promotes cigarette-smoke-induced pulmonary emphysema in mice and is upregulated in individuals with COPD

1388 A mouse model of pathological small intestinal epithelial cell apoptosis and shedding induced by systemic administration of lipopolysaccharide

1400 Fragile X mental retardation protein regulates trans-synaptic signaling in Drosophila
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1414 A novel transgenic mouse model of growth plate dysplasia reveals that decreased chondrocyte proliferation due to chronic ER stress is a key factor in reduced bone growth
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1426 Regulation of PDGFC signalling and extracellular matrix composition by FREM1 in mice
Fenny Wiradjaja, Denny L. Cottle, Lynelle Jones and Ian Smyth

1434 Diabetes induces stable intrinsic changes to myeloid cells that contribute to chronic inflammation during wound healing in mice
Pauline Bannon, Sally Wood, Terry Restivo, Laura Campbell, Matthew J. Hardman and Kimberly A. Mace

1448 Deletion of SHP-2 in mesenchymal stem cells causes growth retardation, limb and chest deformity, and calvarial defects in mice
Philip E. Lapinski, Melissa F. Meyer, Gen-Sheng Feng, Nobuhiro Kamiya and Philip D. King

1459 Moderate and high amounts of tamoxifen in αMHC-MerCreMer mice induce a DNA damage response, leading to heart failure and death
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