



**Cover:** Fluorescent microscopy image of horse induced pluripotent stem cells (iPSCs) that have differentiated into actin-positive muscle cells (red). Baird et al. (bio033514) report the successful, direct differentiation of horses iPSCs into bone-forming osteoblasts. These cells could provide a future source of cells for modelling equine bone disorders and for clinical applications in equine fracture repair. Cover image is licensed under a Creative Commons Attribution 4.0 International license.

## RESEARCH ARTICLES

Spindly is required for rapid migration of human cells  
**Conte, C., Baird, M. A., Davidson, M. W. and Griffis, E. R.**  
bio033233

Nitric oxide-mediated intersegmental modulation of cycle frequency in the crayfish swimmeret system  
**Yoshida, M., Nagayama, T. and Newland, P.**  
bio032789

Cell-autonomous role of GFR $\alpha$ 1 in the development of olfactory bulb GABAergic interneurons  
**Zechel, S., Fernandez-Suarez, D. and Ibáñez, C. F.**  
bio033753

Functional comparison of distinct *Brachyury*<sup>+</sup> states in a renal differentiation assay  
**Zhou, J., Plagge, A. and Murray, P.**  
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Fish learn collectively, but groups with differing personalities are slower to decide and more likely to split  
**Kareklas, K., Elwood, R. W. and Holland, R. A.**  
bio033613

1 $\alpha$ ,25(OH)<sub>2</sub>D<sub>3</sub>-glycosides from *Solanum glaucophyllum* leaves extract induce myoblasts differentiation through p38 MAPK and AKT activation  
**Irazoqui, A. P., De Genaro, P., Buitrago, C., Bachmann, H., González-Pardo, V. and Russo de Boland, A.**  
bio033670

Osteoblast differentiation of equine induced pluripotent stem cells  
**Baird, A., Lindsay, T., Everett, A., Iyemere, V., Paterson, Y. Z., McClellan, A., Henson, F. M. D. and Guest, D. J.**  
bio033514

KDM5B decommissions the H3K4 methylation landscape of self-renewal genes during trophoblast stem cell differentiation  
**Xu, J. and Kidder, B. L.**  
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Feeder-free differentiation of cells exhibiting characteristics of corneal endothelium from human induced pluripotent stem cells  
**Wagoner, M. D., Bohrer, L. R., Aldrich, B. T., Greiner, M. A., Mullins, R. F., Worthington, K. S., Tucker, B. A. and Wiley, L. A.**  
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*Tbx6* controls left-right asymmetry through regulation of *Gdf1*  
**Concepcion, D., Hamada, H. and Papaioannou, V. E.**  
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Robust interaction of IFT70 with IFT52–IFT88 in the IFT-B complex is required for ciliogenesis  
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Tolerance to paternal genotoxic damage promotes survival during embryo development in zebrafish (*Danio rerio*)  
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Nonmuscle myosin IIA is involved in recruitment of apical junction components through activation of  $\alpha$ -catenin  
**Ozawa, M.**  
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Selection of morphological features of pollen grains for chosen tree taxa  
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