



Cover: Bovine induced pluripotent stem cells growing on irradiated mouse embryonic feeder cells. Iridescent dome-shaped colonies with individual cells not being discernible is a morphological hallmark of naïve pluripotency. A new paper by Viju Vijayan Pillai, Prasanthi Koganti and colleagues uncovers core elements of pluripotency signaling in bovids, highlighting species-distinctions that have baffled scientists for decades. Image licensed under a Creative Commons Attribution 4.0 International license.

REVIEW

Germline competent mesoderm: the substrate for vertebrate germline and somatic stem cells?

Savage, A. M., Alberio, R. and Johnson, A. D.
bio058890

RESEARCH ARTICLES

Efficient induction and sustenance of pluripotent stem cells from bovine somatic cells

Vijayan Pillai, V., Koganti, P. P., Kei, T. G., Gurung, S., Butler, W. R. and Selvaraj, V.
bio058756

The population frequency of human mitochondrial DNA variants is highly dependent upon mutational bias

Dunn, C. D.
bio059072

Eye morphogenesis in the blind Mexican cavefish

Devos, L., Agnès, F., Edouard, J., Simon, V., Legendre, L., El Khallouki, N., Barbachou, S., Sohm, F. and Rétaux, S.
bio059031

Regulated inositol synthesis is critical for balanced metabolism and development in *Drosophila melanogaster*

Rivera, M. J., Contreras, A., Nguyen, L. T., Eldon, E. D. and Klig, L. S.
bio058833

The *Drosophila* orthologue of the primary ciliary dyskinesia-associated gene, *DNAAF3*, is required for axonemal dynein assembly

zur Lage, P., Xi, Z., Lennon, J., Hunter, I., Chan, W. K., Bolado Carrancio, A., von Kriegsheim, A. and Jarman, A. P.
bio058812

Orally administered branaplam does not impact neurogenesis in juvenile mice, rats, and dogs

Theil, D., Valdez, R., Darribat, K., Doelemeyer, A., Sivasankaran, R. and Hartmann, A.
bio058551

Characterization of nuclear pore complex targeting domains in Pom152 in *Saccharomyces cerevisiae*

Brown, J. T., Haraczy, A. J., Wilhelm, C. M. and Belanger, K. D.
bio057661

Nondeterministic nature of sensorineural outcomes following noise trauma

Guthrie, O. W. and Bhatt, I. S.
bio058696

GRASP55 restricts early-stage autophagy and regulates spatial organization of the early secretory network

Liu, J. Y., Lin, Y. T., Leidal, A. M., Huang, H. H., Ye, J., Wiita, A. P. and Debnath, J.
bio058736

Patterns of variations in dorsal colouration of the Italian wall lizard *Podarcis siculus*

Storniolo, F., Zuffi, M. A. L., Coladonato, A. J., Di Vozzo, L., Giglio, G., Gini, A. E., Leonetti, F. L., Luccini, S., Mangiacotti, M., Scali, S., Abate, F., Sperone, E., Tatini, I. and Sacchi, R.
bio058793

FIRST PERSON

First person – Viju Vijayan Pillai and Prasanthi Koganti
bio059070

FUTURE LEADER TO WATCH

Future leader to watch – Aaron Savage
bio059068